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Public work Department

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19th January 1888, No. 217 W., Public Works.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Military Works.

Read—the following letter from Colonel H. M. VIBART, R.E., Superintending Engineer, V Circle, to the Chief Engineer, Public Works Department, dated Chepâk, 14th December 1887, No. 3887 :—

By Military Standing General Orders, No. 61 of 1887, amending Standing General Orders, No. 43 of 1886, in cases where it becomes necessary to dig out floors of stables to a considerable depth and to employ a large amount of labor for the purpose, the matter should be referred to the General Officer Commanding the Division or District, who, in consultation with the Superintending Engineer, will decide the amount of assistance to be given by the Public Works Department. I have the honor to request to be informed whether in such cases the renewal of floors is to be undertaken by the Public Works Department as it is not clear to me what assistance it is expected that the Public Works Department should give. I also request to be informed, with reference to Standing General Orders, No. 43 of 1886, whether the cost of renewal of floors carried out by regimental agency is to be met from budget of the Military Department or that of the Public Works Department.

No. 4726 C, Public Works.

Referred to the Military Department with advertence to G.O., No. 3109 W., dated 17th November 1887.

2. It is proposed to inform the Superintending Engineer that it must rest with the General Officer Commanding to decide whether work of the nature referred to shall be carried out by regimental agency or by the Public Works Department; also that when work is carried out by regimental agency the cost should be met by the Military Department, but when carried out by the Public Works Department the charge should fall against the Military Works grant.

(By Order.)

Chepâk,
19th December 1887.
(Signed) W. L. C. BADDELEY, Captain, R.E.,
Under Secy. to Govt., P.W.D.

No. 8, Military.

Referred to His Excellency the Commander-in-Chief, with advertence to Proceedings of Government, No. 7585, dated 1st December 1887.

(By Order.)

Fort St. George,
3rd January 1888.
(Signed) A. KENNEY-HERBERT, Brigdr.-Genl.,
Secretary to Government.

From Brigadier-General F. FAUNCE, Quartermaster-General, to the Secretary to Government, Military Department, dated Ootacamund, 13th January 1888, No. 160 A.

In returning reference G.O., No. 8, of 3rd instant, regarding the amount of assistance to be rendered by the Public Works Department in connection with the renewal of floors of regimental stables on outbreaks of anthrax, I am desired to express the Commander-in-Chief's concurrence in the view taken by the Public Works Department as stated in paragraph 2 of its note, No. 4726 C., of 19th ultimo, on the subject.

No. 300, Military.

Transferred, and the previous papers returned to the Public Works Department.

(By Order.)

FORT ST. GEORGE,
16th January 1888.

(Signed) A. KENNEY-HERBERT, Brigdr.-Genl.,
Secretary to Government.

ORDER—dated 19th January 1888, No. 217 W., Public Works.

Communicated, in continuation of G.O., No. 3109 W., dated 17th November 1887, to the Superintending Engineers, III and V Circles, for information and guidance.

(True Extract.)

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

To the Superintending Engineer, III Circle.
" " V "
" Military Department.
" Exmr PW Accts

Exd. J. Moses.
Spare Copies

BUILDINGS AND ROADS.
MILITARY WORKS.

Govt. of {1888} Madras.
PUBLIC WORKS.

Dated January, 19th.

Encl.

Recd.

G.O., 19th Jan. 1888, No. 217 W.

JANUARY.

Floors in Regimental Stables

Communicating to the Superintending Engineers, III and V Circles, letter from the Military Department, intimating His Excellency the Commander-in-Chief's concurrence with certain proposals in connection with the work of renewal of —.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Military Works.

Read—the following papers :—

From Colonel H. M. VIBART, R.E., Superintending Engineer, V Circle, to the Chief Engineer, Public Works Department, dated Panruti, 24th September 1887, No. 2600.

The Executive Engineer, Presidency, has received from the Assistant Quartermaster-General, Bangalore division, a circular issued by the Quartermaster-General conveying the orders of His Excellency the Commander-in-Chief regarding the method of renewing floors in stables to be adopted in future. I forward a copy of the circular, which it appears to me should have been communicated to the Public Works Department through the Chief Engineer as touching on a professional matter. The orders of His Excellency the Commander-in-Chief, as embodied in the circular, will be carried out.

From Brigadier-General E. FAUNCE, Quartermaster-General, to the General Officer Commanding———, dated Ootacamund, 6th July 1887, Circular No. 2374 A.

S.G.O., No. 115 of 1883.
" " 126 of 1885.
" " 43 of 1886.

With reference to the orders as per margin, the Commander-in-Chief directs that, in future, when the renewal of existing flooring becomes necessary in covered stables, the following description of flooring which is cheap, and has been found to answer well in the stables at the Reserve Depôt, Hosúr, may be adopted. A mixture of clay (such as is found in beds of tanks and used by potters) with gravel in the proportion of one-third of the former to two-thirds of the latter, to be well mixed, watered and rammed down to a depth of 6 to 9 inches. The gravel and clay should be well mixed before moisture is applied, and the whole well incorporated and damped when put down, too much moisture being avoided as tending to make the floor crack when drying. Care should be taken not to use the floor until it is thoroughly dry.

2. It should be noted that this flooring is not well adapted to outside standings.

No. 3328 C.

MEMORANDUM.

With reference to letter from the Superintending Engineer, V Circle, No. 2600, dated 24th September 1887, the undersigned has the honor to inquire whether the renewal of floors of regimental stables is usually carried out by the Public Works Department.

(Signed) W. L. C. BADDELEY, Captain, R.E.,
Under Secy. to Govt., P.W.D.

4th October 1887.

To the Superintending Engineer, V Circle.

From Colonel H. M. VIBART, R.E., Superintending Engineer, V Circle, to the Chief Engineer, Public Works Department, dated Bangalore, 13th October 1887, No. 2821.

With reference to your memorandum, No. 3328 C., dated 4th October 1887, I have the honor to state that by paragraphs 3 and 30 of Standing General Order, No. 115 of 1883, as revised by Standing General Orders, No. 126 of 1885 and No. 43 of 1886, renewal of stable floors involving a large amount of labor is apparently to be carried out by the Public Works Department by orders of Government on the report to be made by the local Military authorities.

No. 3601 C., Public Works.

Referred to the Military Department for favor of information whether it is desired that the instructions in the Quartermaster-General's circular should be followed when work of the nature referred to is carried out by the Public Works Department.

(Signed) J. O. HASTED, Col., R.E.,
Secy. to Govt., P.W.D.

21st October 1887.

No. 6662, Military.

Referred to His Excellency the Commander-in-Chief.

(By Order.)

(Signed) A. KENNEY-HERBERT, Brigdr.-Genl.,
Secretary to Government.

Fort St. George,
31st October 1887.

From Brigadier-General E. FAUNCE, Quartermaster-General, to the Secretary to Government, Military Department, dated Ootacamund, 10th November 1887, No. 4371-A.

In returning the correspondence referred to the Commander-in-Chief under No. 6662, dated 31st ultimo, I am desired to state, for the information of Government, that His Excellency considers it would be desirable that the instructions in this office circular No. 2374 A., of 6th July 1887 (copy annexed), should be followed when the Public Works Department carries out renewals of earthen flooring of covered stables.

2. The circular in question was issued for the guidance of officers commanding regiments and batteries, the stables of which might be floored with earth, or have a layer of earth over permanent flooring of concrete, brick, stone or kunkur, in which cases the renewal of the earthen flooring is required to be carried out by regimental or battery agency.

No. 7024, Military.

Transferred and the referred papers returned to the Public Works Department.

(By Order.)

(Signed) A. KENNEY-HERBERT, Brigdr.-Genl.,
Secretary to Government.

Fort St. George,
12th November 1887.

91/3109

Order—dated 17th November 1887, No. 3109 W., Public Works.

Communicated to the Superintending Engineers, III and V Circles, for information and guidance.

(True Extract.)

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

To the Superintending Engineer, III Circle.
„ „ „ V „
„ Military Department.

Exd. J. Henricus.
Spare Copies

BUILDINGS AND ROADS.
MILITARY WORKS.

Govt. of (1887) Madras.
PUBLIC WORKS.

Dated November, 17th.

Encl.

Recd.

G.O., 17th Nov. 1887, No. 3109 W.

NOVEMBER.

Floors in Regimental Stables

Correspondence regarding the renewal of —, communicated to the Superintending Engineers, III and V Circles.

No. 2374 A.
Ootacamund
6th July 1887.

5/3109

Circular

To

The General Officer Commanding
Bangalore Division

Sir

With reference to the orders as per margin, the Commander-in-Chief directs that in future when the renewal of existing flooring becomes necessary in covered Stables; the following description of flooring which is cheap and has been found to answer well in the Stables at the Reserve Depôt, Hosúr may be adopted. A mixture of clay (such as is found in beds of tanks and used by potters) with gravel in the proportion of $\frac{1}{3}$ of the former to $\frac{2}{3}$ of the latter, to be well mixed, watered and rammed down to a depth of 6 to 9 inches. The gravel and clay should be well mixed before moisture is applied and the whole well incorporated and stamped when

put

Engineer

put down, too much moisture being avoided, as tending to make the floor crack when drying. Care should be taken not to use the floor until it is thoroughly dry.

It should be noted that this flooring is not well ~~adopt~~ adapted ed to outside standings.

I have &c

(Sd) D. J. S. McLeod Major.
Deputy Quarter Master Genl.

No. 1699
9. 7. 87.

True copy forwarded to the Executive Engineer, Residency Division Bangalore for information.

(By order) G. Swinley Coll.
Assistt. Quarter Master Genl.
Bangalore Dn.

(True Copy)

(Signed) Ross Thompson Coll. R.E.
Executive Engineer Residency Dn.

(True Copy)

[illegible] Coll. R.E.
Superintending Engineer
5 Circle.

3109W

Bzyub443A

SUPERINTENDING ENGINEER'S OFFICE,

No. 2600. 8/3107 Panruti ~~Chepak~~, V Circle, Madras, 24th September 1887.

From

Coll. H. M. Vibart. R.E.

SUPERINTENDING ENGINEER, V CIRCLE,

To

THE Chief Engineer

P.W. Department.

Enclosures.

SIR,

The Executive Engineer Presidency has received from the Assistant Quarter Master General Bangalore Division, a Circular issued by the Quarter Master General, conveying the orders of His Excellency the Commander-in-Chief regarding the method of renewing floors in Stables, to be adopted in future. I forward a copy of the Circular which it appears to me should have been communicated to the P.W. Department thro' the Chief Engineer

Engineer, as touching on a professional matter. The orders of His Excellency the Commander-in-Chief as embodied in the Circular will be carried out.

I have the honor to be
Sir
your Most Obedt. Servant

[illegible] Abbott Coll. R.E.
D
Superintending Engineer
5th Circle

P.W.C. No. 7147
1887

No. 2600

From

The Superintg. Engineer
5th Circle

To

The Chief Engineer
P.W. Dept.

Dated 24th
Despd. 24th } September
Recd. } 1887

No. 2336 C d/ 4-10-87

Encl. 1

Flooring in covered Stables.

Forwards a copy of the Circular issued by the Dy. Qr. Mr. Gl. conveying the orders of H.E. the Commander-in-Chief regarding the method of

Recd. Be circulated [illegible] only pattern of repairs to be executed by the Department in Stables [illegible] ordinarily need not have [illegible]

Dymb413a

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360

Quartermaster General's Office
Ootacamund, 6th July 1887

No. 2374. A

Circular

Printed (2)

From,

Brigadier General E. Faunce,
Quartermaster General

To,

The General Officer Commanding

Sir,

S.G.O. No. 115 of 1883
– do – 126 of 1885
– do – 43 of 1886

With reference to the orders as per margin, the Commander-in-Chief directs that, in future, when the renewal of existing flooring becomes necessary in covered stables, the following description of flooring which is cheap, and has been found to answer well in the stables at the Reserve Depôt, Hosur, may be adopted – A mixture of clay (such as is found in beds of tanks and used by potters) with gravel in the proportion of $\frac{1}{3}$ of the former to $\frac{2}{3}$ of the latter, to be well mixed, watered and rammed down to a depth of 6 to 9 inches – The gravel and clay should be well mixed before moisture is applied and the whole well incorporated and damped when put down, too much moisture being avoided as tending to make the floor crack when drying. Care should be taken not to use the floor until it is thoroughly dry.

It should be noted that this flooring is not well adapted to outside standings –

I have the honor to be,
Sir
Your obedient Servant

D J McLeod Major,
Dy. Quartermaster General.

Wf S

10 34/310 13

Public Works Department.

No. 3328C of 4th October 1887

Present (3)

Memo

With reference to letter from the Superintending Engineer V Circle No. 2600 dated 24th September 1887, the undersigned ~~Superintending~~ has the honor to ~~Engineer V Circle is~~ inquire ~~requested to state~~ whether the renewal of floors of regimental stables is usually carried out by the P. W. Department.

mar
3.10.87

Supg: Engineer V. Circle

&c
4/10 Ch

E.I.
PW [illegible]

E. 4
[illegible]

E. 3328 C of 4-10-87

Recd
Lr No 7335
of /87

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p.b.

85/
310

No. 2821.

SUPERINTENDING ENGINEER'S OFFICE,
V CIRCLE, MADRAS,
Camp Bangalore ~~Chepauk~~, 13 October 1887.

From
Coll. H. M. Vibart R.E.
THE SUPERINTENDING ENGINEER,
V CIRCLE,

To
THE Chief Engineer,
P. W. Department.

Prmd (4)

Enclosures.

SIR,

With reference to your Memorandum No. 3328 C dated 4th October 1887, I have the honor to state that by paras 3 & 30 of Standing General Orders No. 115 of 1883, as revised by Standing General Orders Nos. 126 of 1885 & No. 43 of 1886, renewal of stable floors involving a large amount of labour is apparently to be carried out by the Public Works Department, by orders of Government, on the report to be made by the local Military authorities.

I have the honor to be
Sir
Your most Obedient Servt

H. Meredith Vibart
Coll. R.E.

Superintending Engineer
V Circle

f/05

P.W.C. No. 8220

9248/87

No. 3601 C d/21st October/87

Referred to the Military Department for favour of information whether it is desired that the instructions in the Quarter Master General's Circular should be followed when work of the nature referred to is carried out by the P. W. Department.

Johnstone Col. R.E.
Secretary to Govt
P.W.D.

18.10.87

From
THE SUPERINTENDING ENGINEER,
V CIRCLE,

To
THE Chief Engineer
P.W.D.

Dated 13 October 1887
Recd. 17/10. 87

ENCLOSURES.

P. W. Dept.
To be returned with reply.

No. 2821

Floors of Regimental Stables

—

States that the renewal of ——— involving a large amount of labor is apparently to be carried out by D.P.W. by order of Govt on the report to be made by the local military authorities.

12

S.G.O. no 115 of 1883.
S.G.O. no 126 of 1885
S.G.O. no 143 of 1886.

REQUESTED TO BE RETURNED WITH REPLY.

Mily: 1887 Dec

p6

Fort St George
31st October 1887.

No 6662

Referred to H.E. the Commander-in-Chief.

A Kenney Herbert Br. Genl
Secry to Govt Mily.

Q.M.G.

1887.

Public Works Department.

No 7335

No. 3601 C
Dated 21 Octr } 1887.
Despatched 22nd }
Received 22

SUBJECT.

Referring letter fr the Supg Engr, N. Circle, regarding renewal of stable floors.

Copy annexed

Form No. 20 A. / 7 B.

37/3109 13

p7

QUARTER MASTER GENERAL'S OFFICE,
Ootacamund,
10th November 1887.

No 4371/A.

From
BRIGADIER-GENERAL E. FAUNCE,
QUARTER MASTER GENERAL,

To
THE SECRETARY TO GOVERNMENT,
MILITARY DEPARTMENT.

SIR,

In returning the Correspondence referred to the Commander-in-Chief under no 6662 dated 31st ultimo, I am desired to state for the information of Government that His Excellency considers it would be desirable that the instructions in this Office Circular no 2374 A of 6th July 1887 should be followed when the Public Works Department carries out renewals of earthen flooring of covered stables,

2. The Circular in question was issued for the guidance of Officers Commanding Regiments and Batteries the stables of which might be floored with earth, or have a layer of earth over permanent flooring of concrete, brick, stone or Kunkur, in which cases the renewal of the earthen flooring is required to be carried out by Regimental or Battery Agency.

I have the honor to be
Sir,
Your obedient Servant
D. J. S. McLeod Lt: Col:
Dy: Quartermaster Gene

PWC No 9248

Military (1887) Department.

No. 7907

From

THE QUARTER MASTER GENERAL,

To

THE SECRETARY TO GOVERNMENT,
MILITARY DEPARTMENT.

No. 4371 A

Dated 10th } Novr
Received 12 } 15.11.87

ENCLOSURES. 6 reqd papers

Remarks re. renewal of Stable Floors

W. Thornton

Transferred

15 NOV 87
DEPARTMENT

Fort Saint George
12th November/87

No 7024

Transferred and the referred papers returned to the Public Works Dept.

A. Kenney Herbert Br. Genl.
Secretary to Govt. M.D.

B & R
Mily works

A No. 3109 d/17 Nove/87

Communicated to the Supdg. Engineer III & V circles for information & guidance

MWB
17.11.87

17/11/87

S.E. III circle
S.E. V circle
Mily. Dept.

D
17/11

9248

Govt. of [1887] Madras

PUBLIC WORKS

14/11/87

G.O. 17/11/ 1887, No. 3109 W.

Floors in regimental Stables

≡

Correspondence regarding the renewal of — communicated to the Supg Engrs III & V Circles

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SUPERINTENDING ENGINEER'S OFFICE,

Registered No. 1 of 1884.

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102

GENERAL ORDERS.

ADJUTANT GENERAL'S OFFICE,
Ootacamund, 24th September 1886.

No. 43.—Horses—Sanitary.—The following addition is made to para. 3 of S.G.O. 115 of 1883 (as revised by S.G.O. 126 of 1885):—

If the renewal of stable floors becomes necessary on account of the outbreak of anthrax, on other infections disease, renewal will, in the case of earthen floors, be carried out by regimental agency in accordance with the instructions contained in paras. 3 and 30 of S.G.O. 115 of 1883, as revised by S.G.O. 126 of 1885. In cases, however, where it becomes necessary to dig out the floors to a considerable depth and to employ a large amount of labor for the purpose, the matter should be referred by the local military authorities for the orders of the Commander-in-Chief and Government. Stable floors of a permanent character, such as those of Kunkur pavement, &c., without a layer of earth on the top will be disinfected, in the manner laid down in the order referred to above, on the outbreak of anthrax or other virulent disease.

But at stations where a layer of earth is used for blinding the Kunkur pavement, &c., and it becomes necessary to renew the earth, the work must be done by regimental agency, as in the renewal of earthen floors.

By order of His Excellency the Commander-in-Chief.

W. K. ELLES, Brigadier-General,
Adjutant General.

LAWRENCE ASYLUM PRESS—OOTY BRANCH.

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should be followed

cases

Registered No. 1 of 1884.

17 8/3109

GENERAL ORDERS.

Adjutant General's Office,
Ootacamund, 9th December 1887.

No. 58.—Duties.—In supercession of the instructions contained in S.G.O. No. 81 of 1884, the following procedure is to be adopted in future with a view to facilitate the employment of military labor in public works:—

(1) Whenever a Military work of any sort is to be carried out by the Public Works Department, the Engineer preparing the estimate shall, at the time of submitting it for countersignature, attach to the estimate a memorandum showing—

I. What part of the work is suitable for military labor, European or Native.

II. The number of troops that would be required and for what time.

III. The amount available for their pay, as calculated in the estimate at the local rates.

(*a*) Contracts for labor allotted to troops should be restricted to such work as may be completed within a period not exceeding one month, in order that payments for work may be regularly distributed at monthly intervals.

(*b*) The contracts should further be regulated so as to admit of the work proposed being undertaken by small bodies of men not exceeding a company.

(*c*) Whenever troops are employed under the Public Works Department, the portion of them actually allotted work should be struck off all Military duties until the work is completed, so far as the exigencies of the service will admit and when it can possibly be avoided the working parties are not to be changed oftener than once a week.

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(2) The General or Commanding Officer will then decide and endorse on the Estimate—

I. Whether the troops can be spared for employment with due consideration to drill and duties.

II. Whether the amount available in the estimate appears sufficient for the remuneration of the troops.

III. Whether he recommends their employment.

(3) If satisfied on these points, the General or Commanding Officer will order the employment of the troops, as soon as he is informed that funds are allotted, and that the work is to be commenced.

(4) Troops will be employed under their own officers and non-commissioned officers. It will be the duty of the local Engineer to convey the necessary instructions simply and clearly to the senior officer of the working party; and of this officer to see them properly carried out, and transmitted to his successor in command on the relief of the party.

(5) In case of dispute or dissatisfaction, the General or Commanding Officer will decide with whom the fault lies, and in case of neglect or carelessness by the troops, it shall be competent to him to with-hold payment of working pay until the work be satisfactorily completed, or to stop it altogether, as provided for in Army Regulations, India, Volume I, Pay.

(6) In deciding questions under the last paragraph the General or Commanding Officer will invariably consult the Superintending Engineer as his legitimate adviser.

(7) Sappers are to be employed on the same principles as troops of the line. If capable of higher classes of work, they will be paid as specially provided in Army Regulations, India, Volume I, Pay.

(8) Task work is the best mode of stimulating troops to exertion. Particular work or sections of work should be made over to particular regiments, and the distribution of working pay should be effected regimentally.

(9) Tools will in all cases be supplied, free of charge, by the department employing the troops the men using them being required to pay for any damage that may be caused by unfair usage or negligence on their part. The procedure in this case will be similar to that followed in assessing barrack damages.

(10) When employed at a distance from barracks, troops should be encamped, using their own Camp Equipage, and regimental or depôt carriage. Their rations, water-supply, and the sanitation of their camps, should be provided and arranged for

exactly as at Camps of Exercise; no extra cost being debitable to the Public Works under these heads.

(11) In every matter relating to the employment of military labor, excepting only the power to sanction excess expenditure, the General Officer is supreme.

No. 59.—Discipline.—With reference to S. G. O. No. 43 of 1887, it is notified for information that the Government of India has ruled that the rules respecting the delivery, to the Military authorities, of persons charged with offences, under section 41 of the Army Act 1881, for which they are liable to be tried by Court-martial, are applicable only to persons who are subject to the Army Act 1881, and not to persons subject to the Indian Articles of War, Act V of 1869.

No. 60.—Clothing—Necessaries—Native Army.—With the sanction of Government, the Commander-in-Chief notifies that Great Coats of Madras Infantry Regiments will, until further orders, be made up of cloth similar to that manufactured by the Egerton Woollen Mills Company, and numbered 57.

2. The cost of the Great Coat made up and in material, is at present as follows:—

	Rs.	*a.*	*p.*
Made up	9	7	2
In material	9	1	2

No. 61.—Horses—Sanitary.—The following alteration is made to S.G.O. No. 43 of 1886:—

In lines 8, 9 and 10, *dele* "by the local military authorities "for the orders of the Commander-in-Chief and Government" and substitute "to the General Officer commanding the Division "or District, who, in consultation with the Superintending "Engineer, will decide the amount of assistance to be given by "the Public Works Department."

By order of His Excellency the Commander-in-Chief.

M. C. FARRINGTON, Brigadier-General,
Adjutant General.

LAWRENCE ASYLUM PRESS—OOTY BRANCH.

Registered No. 1 of 1884.

11/3109

GENERAL ORDERS.

HEAD QUARTERS, OOTACAMUND,
24th December 1885.

No. 126.—Horses—Sanitary.—Para. 3 of S. G. O., 115 of 1883, is revised as follows :—

"The flooring of covered or uncovered standings, if of earth or clay on which infected animals stood at the time of the attack or during a previous period of 10 days, together with that of one standing on either side, is to be dug up to the depth of 2 feet, the soil removed to a safe distance from the lines, deposited in a thin layer, and heated by burning stable litter over it. The cavity is to be filled in with clean, arable (not alluvial) soil, the upper layer of which, to a depth of six inches only, to be mixed with quick lime, in the proportion of 1 part to 12, in bulk, of earth ; the whole to be well rammed down to prevent percolation of urine."

"The remaining standings, in the line or stable which have not been actually exposed to contamination by infected animals standing on them, or in their immediate vicinity, are to be treated as follows :—

"Such soil only as may have been exposed to contamination by urine falling on it is to be removed to a depth of 2 feet, if necessary, and replaced by fresh soil and lime as above directed. This should not entail the removal of more than 32 cubic feet of earth per standing."

"Earthen mangers and water vessels which have been used by infected animals must be destroyed."

"In the case of flooring of a permanent character, such as rammed kunkar, pavement, &c., it will be sufficient to cover it thickly with fresh lime-wash, which will be scraped off when dry, and the floor re-coated with lime-wash."

"Carbolic powder or other disinfecting agent will subsequently be sprinkled on it."

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"Mud walls of sun-dried bricks, and all such as have previously been white-washed, as well as all unpainted wood-work, other than roof timbering, are to be lime-washed to a height of 10 feet from the ground, scraped when dry, and again coated with lime-wash."

"It will be sufficient to cleanse surfaces of iron-work and painted wood-work with soap and hot water, and to wash down walls of burnt brick, which have not previously been white-washed, with a solution of 1 part of carbolic acid to 100 parts of water. The acid will be supplied for the purpose by the Commissariat Department on indents signed by the officer in veterinary charge and countersigned by the commanding officer, in quantities calculated at the rate of a pint per 100 superficial feet of surface to be disinfected."

"If, on account of excessive virulence of an outbreak, it may be considered necessary to adopt more extensive means of purification, the circumstances of the case are to be reported to Army Head Quarters and sanction requested."

Para. 30. After the word "agency" in 6th line, add "under the supervision of a subordinate of the Public Works Department who will be detailed by the Executive Engineer."

No. 127.—The following general orders, by His Excellency the Commander-in-Chief in India, are republished :—

Adjutant-General's Office, Simla, 4th December 1885.

No. 98.

Musketry.—G. O. 84* of 1885 is cancelled.

2. The annual musketry course for the season 1885-86, of all the regiments of the Native Army (with the exception of those for which a modified course has already been sanctioned), will be performed in accordance with the instructions contained in the Native Musketry Regulations, 1882 edition.

No. 99.

Pensions—Native.—It is notified that Bengal Book Form A. R. 13,† "Descriptive Roll and Record of Service for Native Followers," has been introduced, and copies can be obtained from the Contractor‡ for printing Government of India stock forms.

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*S.G.O. No. 112 of 1885, pages 164 to 179.

†M. M. Form 641.

‡Superintendent, Lawrence Asylum Press, Madras.

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2. The above form is intended only for those followers of British and Native Corps who are entitled to Military pension, service* books being kept up as hitherto for those followers qualifying for pension under the Civil rules.

*G.O. 82† of 30th June 1881.

No. 101.

Medical Department—Exchanges.—Officers of the medical staff whose tour of Foreign Service will expire during the trooping season, and who have elected to proceed home, will not be permitted to exchange with the object of extending their service in India.

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†S.G.O. No. 77 of 1881.

By order of the Provincial Commander-in-Chief.

W. K. ELLES, Brigadier-General,
Adjutant General.

W. H. MOORE, SUPERINTENDENT OF MILITARY PRINTING.

more than one year in a battery or regiment are not permitted, and grey horses are on no account to be transferred to the Royal Artillery."

No. 115.—Horses—Sanitary.—The following rules are substituted for those at present existing for guidance on the appearance of anthrax, glanders, or farcy :—

1. Anthrax affects horses, mules, donkeys, elephants, camels, horned cattle, sheep and goats, and may also affect man by inoculation.

2. On the appearance of anthrax, all the animals, which have been exposed to the affection, are to be removed for a distance of at least 300 yards, to untainted ground, the locality to be again changed at least once in fourteen days. For special ration to animals under such circumstances, see Commissariat Code, para. 917 (*b*), as amended by India Army Circular of 30th July 1883.

3. The flooring of the abandoned lines, stables, or other standings, if of clay or common earth, is to be dug up to a depth fully sufficient to ensure the removal of all urine-stained earth (usually two feet); the earth is to be removed to a safe distance from the lines, and the cavity filled in with good arable soil (not alluvial), mixed with lime, and well rammed down to prevent percolation with urine.

In the case of flooring of a permanent character, such as rammed, kunkar, pavement, &c., it will be sufficient to cover it thickly with fresh lime-wash, which will be scraped off when dry, and the floor re-coated with lime-wash.

Carbolic powder or other disinfecting agent will subsequently be sprinkled on it.

The walls and wood-work are to be lime-washed, scraped, and again coated with lime-wash, and earthen mangers, &c., to be removed.

4. The affected animals are to be removed, together with their attendants, line gear, grooming apparatus, and drinking utensils, and strictly segregated, rejected rations and litter being burnt on the spot. Their saddlery is to be taken into store, the lining and stuffing being burnt (unless the saddlery has not been in use with the animals for a period of ten days previously); the leather-work, &c., must be thoroughly cleansed with soft soap and warm water, in which some disinfectant (as carbolic acid) may be mixed.

5. Carcasses of infected animals are to be burned in the cinerators provided for the purpose or, if these be not available, as

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near to the place of death as possible, by means of cowdung fuel cakes or wood; clothing, grooming apparatus, and all rope-work will be burnt, and iron-work heated in a fire, leather-work will be scrubbed with soft soap and warm water, under competent superintendence. The clothing of attendants will be treated as ordered in Section 9, para. 11, Madras Army Regulations. The men themselves should be caused to bathe before being permitted to again tend on healthy animals.

6. The bedding, dung, &c., of infected animals will be burnt daily, together with all rags, lint, tow, or dressings of any kind used with them. Sponges must on no account be used for these cases, and if, by accident, it should happen that they have been used, they should at once be burnt. Great care must be taken to disinfect and clean any instrument or implement used, prior to being again used with healthy animals.

7. The lines should not be again occupied until the disease has quite died out, and the precautionary measures laid down in para. 3 been fully carried out.

8. Glanders and farcy constitute one and the same disease, and inoculation with the blood or discharges from animals infected may reproduce the disease in either form. Horses, mules, and donkeys may be affected by it, and mankind are also liable to it from contact of the virus with sores or abrasions.

9. When symptoms of a suspicious character indicative of glanders or farcy present themselves, the same rules as to segregation regarding the affected animals, and other precautions as laid down in para. 4 are to be fully and strictly carried out, the distance of separation from healthy animals being at least half a mile.

10. The two animals standing next the suspected animal, one on either side, are also at the same time to be segregated, but in a distinct place; like precautions as to line gear, saddlery, litter, rejected rations, attendants, &c., being taken.

Should the first animal prove to be affected with glanders or farcy, the two animals alluded to in the last clause, should be kept under observation for a period of three months, when, if they have remained free from suspicious symptoms, they may be returned to the lines.

11. Animals in the tainted or supposed tainted troop or other section are to retain the stalls or standing places occupied, till full proof of the non-existence of the disease has been obtained; no interchange of attendants, saddlery, or line gear, is to be allowed. Watering is to be carried on in the stables, by means of iron buckets, one of which should be allowed to at least every two animals; and these drinking utensils must be kept scrupu-

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ously clean, being scoured out with sand daily. Every precaution must be taken to avoid the possibility of animals which have been exposed to chance of contagion, using the watering troughs, mixing with others at the forge, and, as far as possible, on other occasions. When decided cases of glanders or farcy occur in a troop or other section of animals, it will be advisable, weather permitting, to picket that particular troop or section at some distance from the others.

12. An inspection will be made by the officer in veterinary charge of the animals of the troop or section daily. Twice a week this examination will take place at the standings, either in or out of the stables, as may be convenient, the animals' heads being turned round for the purpose, if requisite. On other days the inspection will be carried out in the morning, immediately on the return of the animals from exercise and before entering the stables, this being the time at which any abnormal discharge is most easily detectable.

13. The stalls and other standings from which the infected animals have been removed are to be treated as laid down in para. 3.

14. The rules laid down in para. 6 will be strictly adhered to.

15. In each case of suspicion of glanders or farcy, the officer commanding the station will immediately, on receipt of a report of the circumstance, order a committee, attended by a veterinary surgeon if possible, to assemble at the place to which the animal has been removed, as laid down in para. 9, to determine the existence or otherwise of the disease, and if, in the opinion of the committee, the case is one of glanders or farcy, the animal will be at once destroyed in the presence of one of the members.

16. The carcass will be disposed of under the provisions of para. 5, and all the directions therein laid down carried out. The numdah and lining and stuffing of the saddle will invariably be burnt, except in case of their not having been worn by the animal for a considerable period previously.

17. Contagious diseases being usually introduced into a corps from without, officers commanding will arrange that grass-cutters' ponies are inspected by the veterinary surgeon, at least twice a month, in ordinary times; and, when there is any fear of the prevalence of anthrax or glanders, twice a week; any suspicious cases being at once isolated, and infected cases of glanders destroyed. Grass-cutters must be prevented from bringing grass from the neighbourhood of villages where such diseases are known to exist.

18. During the prevalence of anthrax or glanders, officers' chargers and other horses, &c., that may be in the habit of entering the lines, are to be inspected periodically.

19. Remounts and other horses, &c., joining from the line of march, should be minutely examined by the veterinary surgeon before being admitted into the lines.

20. Officers commanding stations, in communication with the civil authorities, should cause all horses, the property of dealers, to be inspected by a veterinary surgeon, or other competent person, before being admitted into cantonments. It is advisable not to allow such animals to be picketed in cantonments.

Horse-dealers are punishable under Section 268 of the Indian Penal Code for introducing diseased animals.

21. Occult cases of glanders may exist undetected for an indefinite period. The veterinary surgeon will, during the prevalence of glanders, subject to a strict scrutiny all very old animals, and those which are known to possess a defect in the wind, or indications of chronic lung disease, and, if advisable, isolate them. The general health of the animals of the corps will be attended to, and any insanitary conditions of the stables or their surroundings will be remedied; for, if the disease is not produced by such defects, there is no doubt that they conduce to its propagation and continuance.

22. There is great danger in keeping animals alive, week after week, when they have exhibited suspicious symptoms, especially when it is known that glanders or farcy exists, or has recently existed. Accordingly, in such cases, after a reasonable time has elapsed, and no change is observable, a board, if possible of veterinary surgeons, will report on each case with the view of having the animals destroyed if thought desirable.

23. Any attempt to make light of glanders, or to conceal its existence is reprehensible. It is only by the strictest isolation, and by patient and careful inspections, carried out for a considerable period, that the disease can be stamped out; for, as glanders is not an actively contagious disease, its non-appearance for a few weeks or even months, is apt to lull suspicion and to cause relaxation of vigilance on the part of those in attendance.

24. On the other hand, any undue exaggeration of suspicious cases should be avoided, especially when it is likely to interfere with the movement of the troops.

25. A detachment cannot be considered free from glanders until at least six months have elapsed since the last glandered animal was destroyed, but this need not necessarily affect the movement of the detachment, provided no animal which exhibits symptoms of a suspicious nature or that has been in actual contact with animals so diseased, accompanies it.

The detachment will, however, on the completion of the move, be kept isolated until the six months have expired.

26. The veterinary surgeon will send to the inspecting veterinary surgeon of the circle a weekly report of all animals that are under observation, specifying those which exhibit symptoms of a suspicious character, and a certificate stating how often and at what hour he made his inspection of all the animals of the corps.

27. All cases of farcy or glanders amongst horses, ponies or mules, &c., whether regimental or belonging to the transport department, and of anthrax in any of the above classes or affecting Government horned cattle or other animals, will at once be reported by telegraph to the Adjutant-General in India,* through the principal † veterinary surgeon in India, Simla, and, by letter or telegraph, for the information of the general officer commanding the division or district.

28. In the case of animals attached to regiments, these reports will be made by commanding officers; and, in the case of transport animals at depôts, by the transport officers; or at out-stations, where there are no transport officers, by executive commissariat officers. The latter officers will similarly report outbreaks amongst slaughter animals.

29. In these reports it will be stated that the provisions of this G.O. are being carried out as far as possible. Officers before submitting such reports should, when practicable, apply to the officer commanding the station for the services of a veterinary surgeon to diagnose the cases.

30. In the case of regiments, the digging up and renewal of earthen floors, of outside standings, and lime-washing and scraping of walls, wood-work, &c., and of permanent floors, as a sanitary precaution, in cases of outbreaks of contagious diseases amongst the horses of regiments of British Cavalry and batteries of Artillery, will be done by regimental agency. The renewal of the flooring of stables will be carried out by the Public Works Department, the earth being removed to such a depth as urinal moisture may have penetrated. The old earth is to be taken out of cantonment limits, and fresh earth substituted.

No. 116.—Madras Army Dress Regulations.—In line 24, page 38, insert "and 2nd" between "1st" and "Light;" and in page 23 omit para. 2 of the N.B. altogether, and number para. 3 para. 2.

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* Madras.

† Inspecting Veterinary Surgeon, Madras.

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No. 117.—Head-Dress—Drummers, &c., Native Army.—With the sanction of Government, Drummers, Fifers, Buglers, Farrier Havildars, Trumpeters, Shoeing Smiths, and Veterinary Pupils of Native regiments will, in future, wear the turban prescribed for their respective regiments, in lieu of the helmet now worn by them.

2. The turban will be worn on parades and on all duties with other men of the regiment, the forage or glengarry cap, which is ordered to be kept up as a necessary in paragraph 1217, Madras Army Regulations, being worn on other occasions.

3. To meet the cost of the turban, Government have sanctioned the grant of a biennial allowance of Rupees 3 per man.

This allowance will be paid at the end of each biennial period, for which helmets would, under the old regulations, have been issued. But, in order to assist the men in carrying out the change, the allowance for the next biennial period will be paid at the commencement of the period instead of at its termination.

4. No further indents on account of helmets for the above grades will be submitted by commanding officers.

Regiments that have been supplied with helmets and have taken them into wear are permitted to wear them until the next allowance of 3 rupees becomes due.

Those regiments which have received helmets and have not taken them into wear will return them to the Clothing Department and receive in lieu the allowance above mentioned.

No. 118.—The following general orders, by His Excellency the Commander-in-Chief in India, are republished :—

Adjutant-General's Office, Simla, 24th November 1883.

No. 145.

Transport Regulations.—The following additions and alterations are made in the Transport Regulations, inland :—

Mily. Dept. No. 1018 S.C, dated 30th October 1883, to the Quartermaster-General in India.

Para. 383, 4th line. Expunge the word "two" and substitute "three."

5th line. After the word "stations," insert "on occasions of emergency, and."

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Para. 387 is reconstructed as follows :—

387. Officers detailed for duty on the staff of a general officer, in order to qualify themselves as candidates for the Staff College, or officers detailed to stations in order to complete their Staff College course, by serving with the various arms, are allowed free passage by railway for one charger, provided that in both cases the distance to be travelled is upwards of 200 miles.

Mily. Dept. No. 1016 S-C, dated 30th October 1883, to the Quartermaster-General in India.

Para. 555. Add as a subsidiary note—

† Not applicable to the families of officers of the Royal Artillery proceeding to join the advanced class at Woolwich.

Clause 103 (III) of India Army Circulars of 1883.
Mily. Dept. No. 1014 S-C, dated 30th October 1883, to the Quartermaster-General in India.

Para. 599 is altered as follows :—

599. In place of the words "Government of India, Madras or Bombay, as the case may be," substitute, "General officer commanding division or district." The portion of the last sub-paragraph, commencing "If however, the case," and ending "afterwards applied for," is cancelled.

Mily. Dept. No. 1015 S-C, dated 30th October 1883.

The following corrections are made in Appendix IV. Tables 4, 5, 6, 7, 8, 10, and 11 (pages 168 to 171) :—

Expunge "hospital sergeant" and the staff sergeants' tents allotted. Also expunge the words "deduct, hospital sergeant, provided for above."

In all the tables, 4 to 11, add an additional column, with the heading "necessary tent," and enter "1" against "necessary, warrant medical officer." Expunge the figure "1" in the column "pals," allowed to the warrant medical officer.

In tables 4, 5, 10, and 11, expunge the entry, "for hospital stores, 1 European private's tent," and correct total.

In tables 6 and 8, expunge the entry, "for hospital stores, 1 pal."

Tables 6 and 7. Strength to be corrected in accordance with clause 58, India Army Circulars of 1882, and clause 10, India Army Circulars of 1883, respectively.

Tables 10 and 11. Expunge the entries "Assistant apothecary," "two apprentices," "nurse," and the staff sergeant's tents allotted, and alter totals accordingly.

Corresponding corrections to the foregoing to be made in statements C and D of Appendix IV.

Table 4. Add ‡ against the entry, "Army Hospital Native Corps."

No. 148.

Musketry.—With the sanction of the Government of India, it is notified that the 1st or Army Musketry prize, hitherto awarded to the best shot of the native armies of the three presidencies, will be discontinued, with effect from the Annual Musketry Course for the season 1883-84.

Mily. Dept. letter No. 1075-S-C, dated the 9th November 1883—Drill and Instruction, Musketry.

Para. 365, Native Musketry Regulations, is to be amended accordingly.

Adjutant-General's Office, Simla, 27th November 1883.

No. 151.

Discharge Regulations.—Note 1, to para. 11, of the "Regulations for the Discharge of Soldiers of the British Forces serving in India," is amended as follows:—

"Men who have completed their second term of service, but who have not completed 21 years' service for pension, should not be sent to England without special authority.

"The cases of any men with 21 years' service towards limited engagement, but with less than 14 years towards pension, should be submitted to the Adjutant-General, Simla,* for transmission to the Horse Guards, in order that, if it is deemed advisable, such portion of their forfeited service may be restored as will be sufficient to make up a minimum of 14 years for pension."

No. 152.

Leave and Furlough, Officers.—Attention is directed to clause 113, India Army Circulars, of 1883, notifying that the furlough of an officer ordered to India before the expiration thereof, for special duty, or on account of the exigencies of the service, terminates on the day previous to that of his embarkation for India, whether this takes place from England or from the Continent of Europe; and that when the officer avails himself of the balance of his furlough, it commences on the day of his first landing in England or on the Continent of Europe.

By order of His Excellency the Commander-in-Chief.

GODFREY CLERK, Brigadier-General,
Adjutant-General.

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* Adjutant-General, Fort St. George.

MADRAS: Printed by E. KEYS, at the Government Press, Fort St. George.

1887

P. W. DEPARTMENT. 21 23

Current No. 8229 8109

From Supg Engineer
V Circle

ENCLOS.—

No. 2821

Dated 13th October /87

Received 17 " "

SUBJECT.

Stating that the renewal of floors of regimental stables involving a large amount of labor is apparently to be carried out by D.P.W. by order of Govt. on the report to be made by the local military authorities

DISPOSAL.

No. 3661 C Dated 21st October /87

Referred to the Military Department for favour of information whether it is desired that the instructions in the Quarter Master General's Circular should be followed whose work of the nature referred to is carried out by the P. W. Dept.

1 Sd/ J.O.A.

W.

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22/12

Military Department.

J. 10/11

1887.

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P. W. DEPARTMENT. 3189

10281

Current No. [illegible]

From

The Superintending Engineer
V Circle

ENCLOS.—

No. 3887

Dated 14th December 1887

Received 15th

SUBJECT.

Floors in Regimental Stables — Requesting certain information in connection with —

217 W

15 W
19/12 ✓

DISPOSAL.

No. 4726 Dated 14th Decr 1887

Referred to the Military Department with advertence to G.O. No. 3109 W dated 17th November 1887

2nd It is proposed to inform the Superintending Engineer that it must rest with the General Officer Commanding to decide whether

D 22/12.

whether work of the nature referred to shall be carried out by regimental agency or by the P. W. Dept: Also that when work is carried out by regimental agency the cost should be met by the Military Department, but when carried out by the P. W. Dept: the charge should fall against the Military Works grant

(By order)
(Signed) W. H. C. Barseley
Capt R.E.
Under Secy to Govt P. W. D

To
The Military Department
Despd 20-12-87

3109 W - 17-11-87
3601 C - 21-10-87

18/11

To
The Mily Dept

No. 3887

25/34
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SUPERINTENDING ENGINEER'S OFFICE,
V Circle, Madras,
Chepak, 14 December 1887.

From
Colonel H. M. Vibart R.E.
SUPERINTENDING ENGINEER, V CIRCLE,

To
THE Chief Engineer
P. W. Department.

Enclosures.

SIR,

By Military Standing General Orders No. 61 of 1887, amending S. G. O. No. 43 of 1886, in cases where it becomes necessary to dig out floors of Stables to a considerable depth and to employ a large amount of labour for the purpose, the matter should be referred to the General Officer Commanding the Division or District, who in consultation with the Superintending Engineer, will decide the amount of assistance to be given by the P. W. Department. I have the honor to request to be informed whether in such cases

cases the renewal of floors is to be undertaken by the P.W. Dept & it is not clear to me what assistance it is expected that the P.W. Department should give.

I also request to be informed with reference to S. G. O. 43 of 1886, whether the cost of renewal of floors carried out by Regimental Agency is to be met from Budget of the Military Department or that of the P.W. Department.

I have the honor to be
Sir
Your Most Obedt Servt

Coll. R.E.
Superintending Engineer
5th Circle —

P.W.C. No. [illegible]

No. 4726 C of 19th December /87

Referred to the Military Department with reference to G O No. 3109 W dated 17th Nov /87

2 — It is proposed to inform the Supdg Engineer that it must rest with the General Officer commanding to decide whether work of the nature referred to shall be carried out by regimental agency or by the P. W. Dept:. Also that when work is carried out by regimental agency the cost should be met by the Military Dept; but when carried out by the P W Dept the charge should fall against the Military Works grant

(By order)

W. Boddeley Capt RE
Under Secy to Govt P.W.D.

Jw 17/12/87.

No. 3387.

P. W. Dept.
To be returned with reply.

From

The Superintendg Engr
5th Circle

To

The Chief Engineer
P.W. Deptt.

15 DEC

Dated 14th }
Recd 15 } December 1887.

Floors in Regiment=al Stables —

Requests certain information in connection with —

P.G. 1.12.87, Nos. 44/45 R
S.G.O. 115 of '83
— 126 — '85
— 43 — '86
— 61 — '87 W3

No. 8

REQUESTED TO BE
RETURNED WITH REPLY.

Referred to H.E. the Commander-in-Chief with advertence to P.G. No: 7585. dated 1st December 1887.

Alexander Herbert B: Genl.
Secretary to Govt.

Fort St George
3d Jany 1888

Recd

Mily 1887. Sept

Public Works Department.

№ 9005

No. 4726 C.
Dated December 19. 1887
Despatched
Received 20-12-87

E.1
P.W. 573/88

SUBJECT.

Floors in Regimental Stables.

Referring with remarks, letter from S.E. V Circle requesting certain information in connection with ——

Regr

Anl

Form No. 20 A. / 7 B.

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81 of

QUARTER MASTER GENERAL'S OFFICE,
Ootacamund,
13th January 1888.

No. 160. A

From
Brigadier-General E. FAUNCE,
Quarter Master General,

W4

To
The SECRETARY to GOVERNMENT,
Military Department.

Sir,

In returning Reference O.G. No. 8 of 3rd instant, regarding the amount of assistance to be rendered by the P.W.D. in connection with the renewal of floors of Regimental stables on outbreaks of Anthrax, I am desired to express the Commander in Chief's concurrence in the view taken by the P.W.D. as stated in para 2 of its note

No:

No: 4726 C. of 19th ultimo, on the subject.

I have the honor to be,
Sir.
Your obedt. Servant,
L. Smith

Brigr. Genl,
Quarter master Genl.
Cw

58

P.W.C. No. 513

39

Military (1887) Department.

No. 305

From

The Quarter Master General,

To

The Secretary to Government,

Military Department.

No. 160. A

Dated 13th
Received 16th Jany.

R/18.1.88

Enclosures.

Returns
Reference Q.G. rel. to help by the P.W.D. in the renewals of floors of Regtl. Stables on outbreak of Anthrax.

W. Morden

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p8

Fort Saint George
16th January '88

No. 300. Transferred and the previous papers returned to the Public Works Dept.

By order

A. Kenney Herbert
Brig. Genl
Secretary to Government M.D.

Public Works
No. 217 W.A. / 19th January /88
Printed Nos. 10781
& 513 with encl
~~enclosures~~

A/6

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Communicated, in continuation of G.O. no 3109 W of 17th Novr 1887, to the Supdg Engineers III & V Circles for information and guidance.

19.1.88

Supdg Engr. III Circle ✓
Supdg Engr. V Circle ✓
Mily Dept ✓

19/1/88

Desp. Desp. 31/1

513

Govt. of 1888 Madras.

PUBLIC WORKS.

Dated 11/1/88

Recd.

Encl.

G.O. 19th Jan 1888 No. 217 W

Floors in Regimental Stables

Communicating to the S.E.s III and V Circles letter from the Military Dept ~~stating that~~ intimating H. E. the Commander-in-Chief's ~~concur in~~ concurrence with certain proposals in connection with the work of renewals of —

70/IX

E.T.C. 20/1

J.F. 20/1