(1) பக்கங்களின் எண்ணிக்கை 38

(2) புதுக்கித் திருப்பிய நாள் 3/97

(3) ஆதாரங்குறிப்பவர் சுருக்கொப்பம்

தமிழ்நாடு ஆவணக் காப்பகம்.

தமிழ்நாடு அரசு

(27)

P. W. D துறை

அரசாணை எண்.	2604
மு. கோப்புத் தாள் எண்.	2605
அச்சகம் பலவகை	

நாள் : 20—9—1886 19 .

மடிக்கவோ கண்டபடி கையாளவோ கூடாது

19 Sheets

ஆவண. கா-1—18,006—15-6-87.

2604

Accompaniment to Proceedings, No. 2604 W., dated 20th September 1889.

SCHEDULE of sanitary works proposed to be carried out in the Madras Command with a view to the better sanitation of the lines now occupied in India by the Native troops of the Madras Army (accompaniment to letter No. 2266-B., of 12th August 1889, from Quartermaster-General, Madras Army, to the Secretary to Government, Madras, Military Department).

District.	Station.	Lines.	Item.	Recommendations.	Approximate cost.	Remarks.
					Rs. A. P.	
Bangalore..	Bangalore.	1st Pioneer lines.	1	Provision of wells and drains in 1st Pioneer lines (already paid for).	2,687 6 4	These items are provided for from the allotment of Rs. 20,000 made by the Government of India for the year 1889-90.
Do. ..	Do. ..	Do. ..	2	Approximate estimate of completion of drainage, Pioneer lines.	6,450 0 0	
Do. ..	Do. ..	Do. ..	3	Public latrines	945 0 0	
Do ..	Do. ..	East and West hutting lines.	4	Improvement water-supply.	2,000 0 0	
Belgaum ..	Bellary ..	Madras Infantry lines.	5	Sinking a new well ..	1,000 0 0	
Secunderabad.	Secunderabad.	Native troops lines.	6	Sub-soil drainage of lines..	3,300 0 0	
Bangalore..	Bangalore.	East hutting lines.	7	New standard plan latrines.	2,000 0 0	
Southern ..	Trichinopoly	Native lines ..	8	Standard plan latrines ..	1,000 0 0	
Secunderabad.	Secunderabad.	All lines ..	9	Completion of sub-soil drainage (item No. 6) say.	1,000 0 0	Approximate estimate is Rs. 4,116.
Do. ..	Do. ..	Do. ..	10	Masonry or concrete surface drains to all lines.	50,000 0 0	
Do. ..	Do. ..	Do. ..	11	Latrine accommodation (public) Bowenpillay, Begumpet and Tarbund lines, one latrine each.	1,800 0 0	
Belgaum ..	Bellary ..	North and South Infantry lines.	12	Masonry or concrete drains, at Rs. 10,000 for each set of lines.	20,000 0 0	
Do. ..	Do. ..	Do. ..	13	Latrines (two), one in each set of lines, at Rs. 800 each.	1,600 0 0	
Do. ..	Belgaum ..	Right and Left flank lines.	14	Masonry surface drains ..	23,000 0 0	
Do. ..	Mangalore.	Madras Infantry lines.	15	Masonry surface drains ..	11,710 0 0	Negatived by Government of India—see P.G., No. 1226, dated 21st February 1888.
Do. ..	Do. ..	Do. ..	16	Additional latrine accommodation.	600 0 0	
Do. ..	Do. ..	Do. ..	17	Improvement to two wells.	300 0 0	
Southern ..	Trichinopoly.	Madras Infantry (Pioneer) lines.	18	Removal of a chuckler's parcherry reported as very insanitary.	2,000 0 0	
Do. ..	Do. ..	Madras Infantry (17th) lines.	19	Masonry surface drainage of lines.	8,000 0 0	
Madras ..	St. Thomas' Mount.	Madras Infantry lines (detachment).	20	Straightening, &c., of drains.	250 0 0	
Do. ..	Sámalkót ..	Do. ..	21	Improvements to wells ..	100 0 0	
Do. ..	Do. ..	Do. ..	22	Enlargement of latrine or construction of a new one.	300 0 0	
Do. ..	Pallávaram.	Do. ..	23	Two latrines on re-occupation of lines by a Madras Infantry half battalion.	1,600 0 0	
Do. ..	Ráyapuram.	Madras Infantry lines.	24	Improvements to drainage.	415 0 0	
				Total ..	1,42,057 6 4	

2604

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Military Works.
Account.

READ—the following paper:—

G.O., dated 2nd September 1889, No. 6019, Military.

From the Quartermaster-General, to the Secretary to Government, Military Department, dated Ootacamund, 12th August 1889, No. 2266-B. (Native Lines—Hutting).

Adverting to para. 4 of my letter,* No. 2881-B., dated 31st August 1888, on the subject of a revision of the present system of hutting in the Madras Presidency, I have been desired by the Commander-in-Chief to state, for the information of Government, that the proceedings of the committees assembled to report on the measures necessary to put each set of lines in a proper sanitary state, have been received and considered, and I am now to submit a schedule of the works proposed to be gradually carried out with this object in view, and of their approximate cost amounting to Rs. 1,42,057-6-4.

* Printed in Proceedings of Government, Military Department, dated 19th November 1888, No. 7724.

2. With reference to para. 4 of O.G., dated 1st May 1889, No. 1159 W., Public Works, forwarded with your No. 3699, dated 6th ultimo, it will be observed that provision for the first eight items, specified in this schedule, has been made in the current year's Public Works budget, and on this subject a separate communication† has been made to you. His Excellency trusts that it may be found possible, in future years, to allot money for the gradual execution of the remaining works, all of which, it is considered, are most necessary in the interests of sanitation of the lines of Native troops.

† No. 2079-B., dated 25th July 1889.

3. Items 10, 12, 14, 15 and 19 are for the provision of masonry or concrete surface drains in certain lines for the speedy removal of sulliage and storm-water, and the preservation of the sites of huts and barracks from damp and fouling by their absorption into the ground. In Military Department letter, dated 30th January 1888, No. 186 M.W., forwarded to this office with Madras Government, Military Department, No. 1226, dated 21st February 1888, the Government of India decided that, without special and urgent reasons, it could not entertain a proposal to construct masonry drains in the lines of Native troops. I am, however, to submit that the construction of these surface drains, which have been strongly recommended by the sanitary committees above alluded to, has also been urged by the Army Sanitary Commission (see extract from reports annexed). Without such drains it is manifestly impossible to keep house-sites free from damp during the heavy rainy season of many parts of the south of India, or from foulness owing to the absorption of waste water, &c. Sir Charles Arbuthnot hopes, therefore, that the Government of India will be pleased to consider that sufficiently special and urgent reasons have been advanced to warrant the inclusion of these drains in the schedule.

G.O., No. 433 W., dated 7th February 1888.

2

ENCLOSURES.

EXTRACTS from reports of the Army Sanitary Commission on the subject of surface drainage, Native Infantry lines.

* * * * *

8. It is satisfactory to learn from the station reports that, with occasional exceptions, great pains are bestowed by the authorities on the sanitary condition of the lines. Generally the conservancy arrangements appear to be good, the surface is kept clean, the surface drains in good order. But at many stations great improvements in the construction of surface drains appear to be required.

P.G., No. 3635, dated 9th November 1874.

10. The want of a simple, inexpensive and efficient surface drainage is complained of at not a few stations.

* * * * *

15. There are many other matters bearing on the sanitary condition of Native troops which are suggested by the facts in the report; but the cardinal improvements, besides improved accommodation, are drainage and better water-supply.

REMARKS of the Secretary of State for India on above.

* * * * *

2. Much of the sickness from which the Native troops suffer is attributed in these reports to the damp sub-soil in the lines, and although I observe, with satisfaction, that, as a rule, great pains are said to be bestowed by the authorities on the sanitary condition of the Native lines, it is evident that, in many cases, sufficient attention is not paid to this point.

* * * * *

17. These defects, it will be seen, are of precisely the same nature as those to which attention has frequently been called by the Commission on other papers; they include the influence of low, damp, or wet locality of lines, want of drainage for drying the sub-soil, the surface drainage such as it is, directly leading to sub-soil impurity by sewage in filtration; bad arrangement of lines; badly constructed, damp huts, made of bad material; defects in water-supply, and defective conservancy arrangements.

P.G., No. 5950, dated 20th November 1876.

3. * * It is impossible to peruse these statistical data without seeing how large an influence local disease causes, productive of malaria and dampness, together with climatic agencies, such as rainfall and variable temperature, exert on the efficiency of the Native Army in Madras and its outlying stations, and it is not surprising to find how large a space of the sanitary notes on particular stations is devoted to them.

P.G., No. 5445, dated 28th September 1877.

4. The drainage defects are due to three causes:—

First.—The position of lines in localities which scarcely admit of efficient drainage on account of lowness of ground, water-logged sub-soil consequent on this topographical defect and damp rising in the floors and walls of the men's huts.

Second.—Want of sub-soil drainage where the ground might be drained, leading to similar results.

Third.—Defective attempts at surface drainage by cuttings in the ground, by which not only surface water but the sewage of huts is conveyed directly into the sub-soil, thus increasing the evils which surface work of this kind is intended to remedy.

12. There are facts sufficient in the preceding abstracts to show that there is a large amount of drainage work required at most of the stations.

Not much has been gained in the way of experience in this matter and the principles long since laid down by the Army Sanitary Commission on the subject may still be taken as a guide. These may be summarised as follow:—

(1) Station drainage for removal of rainfall must be effected over the surface.

(2) Mere surface cuts, except on steep inclines only, afford a more certain means of water logging the sub-soil.

(3) Efficient surface drainage requires that the rainfall and all other liquids received by the drains, shall be kept out of the sub-soil, and passed to the out-fall as rapidly as possible.

2604

(4) Box-drains or V-shaped drains for such purposes, although greatly superior to mere cuts, are useful only so far as they are impervious and easily cleansed; and broad, shallow, impervious saucer-sectioned drains are the best for meeting the conditions of drainage described in the present report.

Order—dated 2nd September 1889, No. 6019, Military.

The approximate estimates of the cost of carrying out the improvements considered necessary for securing the better sanitation of Native lines in this Presidency are approved.

2. The necessary funds for estimates Nos. 1 to 5, 7 and 8, have already been provided, and the Supreme Government has been addressed in regard to the allotment of funds for estimate No. 6.

G.O., No. 1159-1160 W., dated 1st May 1889.
„ „ 2155-2156 W., „ 10th Aug. „

3. With reference to para. 4 of Proceedings No. 683 M.W., dated 29th March 1889, the Government of India will be requested by the Public Works Department to make a liberal grant for expenditure on sanitary improvements to Native lines during 1890-91, and in view of the opinions expressed by the sanitary committees recently assembled, the Army Sanitary Commission and His Excellency Sir Charles Arbuthnot, approval will, with reference to Government of India No. 186 M.W., dated 30th January 1888, be sought for the proposed expenditure on the masonry and concrete surface drains recommended for certain Native lines.

G.O., No. 1159 W., dated 1st May 1889.

4. Adverting to para. 2 of G.O., No. 2155 W., dated 10th August 1889, His Excellency the Commander-in-Chief will be asked how it is proposed to utilise the available balance of Rs. 617, and in what order His Excellency wishes funds allotted to estimates 9 to 24 entered in the schedule.

P.G., No. 5797, dated 26th August 1889.

(True Extract.)

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

ORDER—dated 20th September 1889, No. 2604 W., Public Works.

With his letter read in the Proceedings of Government, Military Department, above recorded, the Quartermaster-General submits a schedule of sanitary works proposed to be carried out in the lines of Native troops under the Madras Command, the approximate cost of which is estimated at Rs. 1,42,057.

2. In G.O., No. 2155 W., dated 10th August 1889, funds have been provided for items 1 to 5, 7 and 8 of the schedule, and the Government of India has been addressed in regard to provision of funds for item No. 6.

3. As the works indicated by items 9 to 11 and 14 appertain to stations outside the civil limits of the Madras Presidency, viz., Secunderabad and Belgaum, the Government of India will be requested to grant special allotments to the local Administrations concerned to admit of the works being carried out.

4. The rest of the items enumerated in the schedule, aggregating Rs. 46,875, are connected with the sanitation of Native lines situated within the Madras Presidency and a special allotment of funds for the same is necessary. The Government of India will therefore be requested to make a liberal grant for expenditure on these works during 1890-91.

5. Items 10, 12, 14, 15 and 19 of the schedule provide for masonry or concrete surface drains for certain Native lines, but the Government of India having remarked, in para. 2 of its letter No. 186 M.W., dated 30th January 1888, printed with G.O., No. 433 W., dated 7th February 1888, that it could not, without special and urgent

3

reasons, entertain a proposal to construct masonry drains in the lines of Native troops, that Government will now be requested to approve the expenditure proposed on these items in consideration of the opinions expressed by the sanitary committees recently assembled, the Army Sanitary Commission, and His Excellency the Commander-in-Chief.

6. The receipt of the information called for in para. 4 of the Proceedings of Government, Military Department, will be awaited.

7. The Superintending Engineers concerned will lose no time in the preparation and submission of plans and estimates for items 12, 13 and 15 to 24 of the schedule.

(Here enter No. 2605 W., dated 20th September 1889.)

(True Extract.)

(Signed) R. R. E. DRAKE-BROCKMAN, Lt.-Col., R.E.,
Ag. Joint Secy. to Govt., P.W.D.

To Superintending Engineers.
„ the Examiner, Public Works Accounts.
„ the Military Department.

Exd. P. L. Pereira.
Spare Copies

2604

MILITARY WORKS.
ACCOUNT.

Govt. of {1889} Madras.

PUBLIC WORKS.

Dated September, 20th.

Recd. *Encl.*

G.O., 20th Sept. 1889, No. 2604 W.

SEPTEMBER.

Sanitary Works

Passing orders on schedule of — proposed to be carried out in the lines of Native troops under the Madras Command.

2604

20TH SEPTEMBER 1889, No. 2605 W., PUBLIC WORKS.

PUBLIC WORKS DEPARTMENT.

Military Works.
Account.

LETTER—from

LIEUT.-COLONEL R. R. E. DRAKE-BROCKMAN, R.E.,
Ag. Joint Secretary to the Government of Madras,
Public Works Department,

To

THE SECRETARY TO THE GOVERNMENT OF INDIA,
MILITARY DEPARTMENT.

SIR,

In forwarding the accompanying schedule of sanitary works proposed to be carried out in the lines of Native troops under the Madras Command, and copy of Proceedings of this Government, No. 2604 W., dated 20th September 1889, I am directed to request that the allotments referred to in paras. 3 and 4 of the Proceedings may be sanctioned and that the expenditure proposed on the items referred to in para. 5 may be approved.

I have the honor to be,
Sir,
Your most obedient servant,

Lieut.-Colonel, R.E.,
Ag. Joint Secy. to Govt., P.W.D.

FORT ST. GEORGE,
20th September 1889.

Exd. P. L. Pereira.
Spare Copies

5

MILITARY WORKS.
ACCOUNT.

Govt. of {1889} Madras.

PUBLIC WORKS.

Dated September, 20th.

Recd.

Encl.

20th Sept. 1889, No. 2605 W.

SEPTEMBER.

Sanitary Works

Forwarding a schedule of — proposed to be carried out in the lines of Native troops under the Madras Command and requesting sanction and approval to certain allotments and proposed expenditure.

2604
9.7

Schedule of Sanitary works proposed to be carried out in the Madras Command with a view to the better sanitation of the Lines now occupied in India by the Native Troops of the Madras Army (Accompaniment to letter No. X B, of 12th August 1889, from Quarter Master General, Madras Army, to the Secy. to Govt. Madras, Milty. Dept.

District	Station	Lines	Item	Recommendations	Approximate cost			Remarks.
Bangalore	Bangalore	1st Pioneer Lines	1	Provision of wells and drains in 1st Pioneer Lines (already paid for)	2,687	6	4	
			2	Approximate Estimate of Completion of drainage, Pioneer Lines	6,450	"	"	These items are provided for from the allotment of Rs 20,000 made by the Government of India for the year 1889/90.
			3	Public Latrines	945	"	"	
		East and West Cutting Lines	4	Improvement water supply	2,000	"	"	
Belgaum	Bellary	M. I. Lines	5	Sinking a new well	1,000	"	"	
Secunderabad	Secunderabad	Native Troops Lines	6	Subsoil drainage of Lines	3,300	"	"	
Bangalore	Bangalore	East Cutting Lines	7	New Standard plan Latrines	2,000	"	"	
Southern	Trichinopoly	Native Lines	8	Standard plan Latrines	1,000	"	"	
Secunderabad	Secunderabad	All Lines	9	Completion of Subsoil drainage (item Rs 6) Say	1,000	"	"	Approximate Estimate is Rs 4116.
"	"	"	10	Masonry or concrete surface drains to all lines	50,000	"	"	
			11	Latrine accommodation (public) Bowenpillay, Begumpet and Jarbund Lines - one Latrine each	1800	"	"	
Belgaum	Bellary	North and South Infantry Lines	12	Masonry or concrete drains at Rs 10,000 for each set of lines	20,000	"	"	
"	"	"	13	Latrines (2) one in each set of Lines at Rs 800 each	1600	"	"	
Belgaum	Belgaum	Right & Left Flank Lines	14	Masonry surface drains	23000	"	"	
"	Mangalore	M. I. Lines	15	Masonry surface drains	11710	"	"	Negotiated by Govt. of India, Lr. No. 1226, 21st Feby. 1888.
	"	"	16	Additional Latrine accommodation	600	"	"	
	"	"	17	Improvements to 2 wells	300	"	"	
Southern	Trichinopoly	M. I. (Pioneer) Lines	18	Removal of a Chunkler's Pucherry reported as very insanitary	2,000	"	"	
"	"	M. I. (17th) Lines	19	Masonry Surface drainage of lines	8000	"	"	
Madras	St Thomas's Mount	M. I. Lines (Detachment)	20	Straightening, 1/2 of drains	250	"	"	
"	Samulkot	"	21	Improvements to wells	100	"	"	
"	"	"	22	Enlargement of Latrine or construction of a new one	300	"	"	
"	Palavaram	"	23	Two Latrines on re-occupation of lines by a M. I. half Battalion	1600	"	"	
"	Royapuram	M. I. Lines	24	Improvements to drainage	416	"	"	
				Rs	142,057	6	4	

Quarter Master General's Office
Octacamund, 12th August 1889.

(Signed) M. Protheroe, Brig. Genl.
Quarter Master General.

(True Copy)

A Kenney Herbert
Brigadier General.
Secretary to Government.

Buildings

No. 6019 2604

SECRETARY TO GOVERNMENT
MILITARY DEPARTMENT, MADRAS
E3 SEP 89

Government of Madras.

MILITARY DEPARTMENT,

Ootacamund the 2d September 1889.

From the Quarter Master General, to the Secretary to Government, Military Department, No. 2266-B,- Station Lines Allotting,- dated Ootacamund, 12th August 1889.

Adverting to para: 4 of my letter No. 2581-B, dated 31st August 1888, on the subject of a revision of the present system of allotting in the Madras Presidency, I have been desired by the Commander in Chief to state, for the information of Government, that the Proceedings of the Committee assembled to report on the measures

Printed in Proceedings of Government Military Department, dated 19th Nov. 1888, No. 1724.

X 8

necessary to put each set of lines in a proper sanitary state, have been received and considered, and I am now to submit a Schedule of the works proposed to be gradually carried out with this object in view, and of their approximate cost amounting to Rupees 1,42,057-6-4.

2. With reference to para 4 of O.G. dated 1st May 1889, No. 1159 65, Public Works, forwarded with your No. 3699, dated 6th ultimo, it will be observed that provision for the first eight items specified in this Schedule has been made in the current year's Public Works Budget, and on this subject a separate Comm- -unication has been made to you, His Excellency trusts that it

No. 2079 B, dated 25th July 1889.

may

may be found possible in future years to allot money for the gradual execution of the remaining works, all of which it is considered are most necessary in the interests of sanitation of the lines of Native Troops.

3. Items 10, 12, 14, 15 and 19, are for the provision of masonry or concrete surface drains in certain lines for the speedy removal of sullage and storm water, and the preservation of the sites of huts and barracks from damp and fouling by their absorption into the ground. In Military Department letter dated 30th January 1888, No. 186 M. W., forwarded to this Office, with Madras Government, Military Department No. 1226, dated 21st February 1888, the

G.O. No. 433-W, dated 7th February 1888.

89

Government of India decided that without special and urgent reasons, it could not entertain a proposal to construct masonry drains in the lines of Native Troops. I am, however, to submit that the Construction of these surface drains, which have been strongly recommended by the Sanitary Committees above alluded to, has also been urged by the Army Sanitary Commission; (See Extracts from Reports annexed). Without such drains, it is manifestly impossible to keep house Sites free from damp during the heavy rainy season of many parts of the South of India; & from foulness owing to the absorption of waste water, &c; Sir Charles Arbuthnot hopes therefore, that the Government of India will be pleased to Consider that sufficiently

Special

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3 pp

special and urgent reasons have been advanced to warrant the inclusion of these drains in the Schedule.

Extracts from Reports of the Army Sanitary Commission on the subject of surface drainage: Native Infantry Lines.

5-8 pp

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* * *

P.L. No 3635, dated 9th November 1874.

8. It is satisfactory to learn from the Station Reports that with occasional exceptions, great pains are bestowed by the Authorities on the Sanitary Condition of the lines. Generally the Conservancy arrangements appear to be good, the surface is kept clean, the surface drains in good order. But at many stations, great improvements in the Construction of surface drains appear

10 10

to be required.

10. The want of a simple, inexpensive and efficient surface drainage is complained of at not a few stations.

* * *

15. There are many other matters bearing on the Sanitary Condition of Native Troops which are suggested by the facts in the Report; but the cardinal improvements, besides improved accommodation, are drainage and better water supply.

Remarks of the Secretary of State for India on above.

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* * *

2. Much of the sickness from which the Native Troops suffer, is attributed in these Reports to the damp

subsoil

subsoil in the lines, and although I observe with satisfaction that, as a rule, great pains are said to be bestowed by the authorities on the sanitary condition of the Native lines, it is evident that in many cases, sufficient attention is not paid to this point. * * *

*

17. These defects, it will be seen, are of precisely the same nature as those to which attention has frequently been called by the Commission & other papers: they include the influence of low, damp, or wet locality of lines, want of drainage for drying the subsoil, the surface drainage such as it is directly leading to subsoil impurity by soakage, filtration; bad arrangement of lines, badly constructed, damp huts, made of bad material; defects in water supply; and

P.G. No 5750 dated 20th November 1876.

defective conservancy arrangements.

3. × × It is impossible to peruse these statistical data without seeing how large an influence local disease causes, productive of malaria and dampness, together with climatic agencies, such as rainfall and variable temperature, exert on the efficiency of the Native Army in Madras and its outlying stations and it is not surprising to find how large a space of the Sanitary notes on particular stations is devoted to them.

P.P. No 5445 dated 28th September 1877.

4. The drainage defects are due to three causes:-

First- The position of lines in localities which scarcely admit of efficient drainage on account of lowness of ground, water-logged subsoil consequent on their topographical defect and damp

2604 78

damp piering in the floors and walls of the men's huts.

Second- Want of subsoil drainage where the ground might be drained, leading to similar results.

Third- Defective attempts at surface drainage by cuttings in the ground, by which not only surface water but the sewage of huts is conveyed directly into the subsoil, there increasing the evils which surface work of this kind is intended to remedy.

12. There are facts sufficient in the preceding abstracts, to show that there is a large amount of drainage work required at most of the stations.

Not much has been gained in the way of experience in this matter and the principles long since laid down

17

by the Army Sanitary Commission on the subject, may still be taken as a guide. These may be summarised as follow:-

(1) Station drainage for removal of rainfall must be effected over the surface.

(2) Mere surface cuts, except on steep inclines only, afford a more certain means of water logging the subsoil.

(3) Efficient surface drainage requires that the rainfall and all other liquids received by the drains, shall be kept out of the subsoil, and passed to the outfall as rapidly as possible.

(4) Box-drains or V shaped drains for such purposes, although

greatly

greatly superior to mere cuts, are useful only so far as they are impervious and easily cleansed: and broad, shallow, impervious saucer-sectioned drains are the best for meeting the conditions of drainage described in the present report.

Order.

The approximate Estimates of the cost of carrying out the improvements considered necessary for securing the better sanitation of Native lines in this Presidency are approved.

2. The necessary funds for Estimates Nos. 1 to 5, 7 and 8, have already been provided, and the Supreme Government has been addressed in regard to

G.O. Nos. 1159/1160 W. dated 1st May 1889.
G.O. Nos. 2155/2156 W. dated 10th August 1889.

the allotment of funds for Estimate No. 6.

3. With reference to para. 4 of Proceedings No. 683 M. W., dated 29th March 1889, the Government of India will be requested by the Public Works Department, to make a liberal grant for expenditure on Sanitary improvements to Native lines during 1890/91, and in view of the opinions expressed by the Sanitary Committees recently assembled, the Army Sanitary Commission and His Excellency Sir Charles Arbuthnot, approval will, with reference to Government of India No. 186 M. W., dated 30th January 1888, be sought for the proposed expenditure on the masonry and concrete surface drains recommended for certain Native lines.

G. O. No. 1159 W, dated 1st May 1889

Adverting

2604 10P

4. Adverting to para. 2 of G. O. No. 2155 W., dated 10th August 1889, HC is

P.G. No. 5797 dated 26th august 1889.

Excellency the Commander-in-Chief will be asked how it is proposed to utilise the available balance of Rupees 617, and in what Order His Excellency wishes funds allotted to Estimates 9 to 24 entered in the Schedule.

(True Extract)

A Kennedy Hervey D.
Brigadier Genl.
Secretary to Government.

To

The Quarter Master General.
— Public Works Department.

14

No. 2156 W dt 10-8-89
" 2155 W - 10-8-89
" 1159-60 W - 1-5-89
" 3722 W - 26-11-88
" 433 W - 7-2-88

5776.

PWC N: 8311

12.9.89

H.m. 16-9-89 R. 19-9-89
O.S. 579 Encl 3/9

Mily Works Account

No. 2604 W

Hm / A

PUBLIC WORKS DEPARTMENT.

2604

PROCEEDINGS OF THE MADRAS GOVERNMENT.

UNDER date the 20 Sept. 1889

READ the following

Proceedings of Government Military Department dated with schedule

No 6019 dated 2nd September 1889

118

With his letter read in the Proceedings of Government, Military Department, above recorded, the Quarter Master General submits a Schedule of Sanitary works proposed to be carried out in the lines of Native troops under the Madras Command, the approximate cost of which is estimated at Rs 1,42,057.

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2. In G.O. No 2156 W dated 10th August 1889 funds have been provided for items 1 to 5, 7 and 8 of the Schedule and the Government of India has been addressed in regard to provision of funds for item No. 6.

3. As the works indicated

Cb

by

by items 9 & 11 and 14 appertain to stations outside the civil limits of the Madras Presidency viz:- Secunderabad and Belgaum, the Government of India will be requested to ~~grant~~ special allotments to the local administrations concerned to admit of the works being carried out.

4.- The rest of the items enumerated in the Schedule aggregating Rs. 66,875 are connected with the sanitation of native lines situated within the Madras Presidency and a special allotment of funds for the same is necessary. The Government of India will therefore be requested to make a liberal grant for expenditure on these works during 1890-91.

5.- Items 10, 12, 14, 15 and 19 of the schedule provide for

for masonry or concrete surface drains for certain native lines, but the Government of India having remarked, in para 2 of its letter No. 186 Mil. dated 30th January 1888, printed with G.O. No. 2336 dated 7th February 1888, that it could not, without special and urgent reasons entertain a proposal to construct masonry drains in the lines of native troops, that Government will now be requested to approve the expenditure proposed on these items in consideration of the opinions expressed by the Sanitary Committees recently assembled, the Army Sanitary Commission and His Excellency the Commander-in-Chief.

6. The receipt of the information called for in para 4 of the Proceedings

of

of Government, Military Department will be awaited.

7. The Superintending Engineers concerned will have as time in the preparation and publication of plans and estimates for items 12, 13 and 15 to 24 of the Schedule.

To
Supdg Engineers
The Examiner P.W. Accts
& Military Department.

H.E. No. 2605 W dy 20th Sept. 1889.

To
The Secretary to the Govt of India
Mily. Department.

Sir,

In forwarding the accompanying Schedule of sanitary works proposed to be carried out in the lines of Native troops under the Madras Command, and copy of Proceedings of this Government No. 2604 W dated 20th September 1889, I am directed to request that the

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the allotments referred to in paras 3 and 4 of the Proceedings may be sanctioned and that the expenditure proposed on the items referred to in para 5 may be approved.

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Govt. of 18 Madras.

PUBLIC WORKS.

Dated.

Rcvd. Encl.

G.O., 20th Sept 1897 No. 2604W.

3505W

Sanitary Works

Forwarding orders on
schedule of proposed
to be carried out in the
lines of native troops
under the Madras Com-
-mand, [illegible]

Sanitary Works.

Forwarding a schedule
of ~~[illegible]~~ proposed
to be carried out in
the lines of native troops
under the Madras Command
& the sanction & approval
to certain allotments & propose