(1) பக்கங்களின் எண்ணிக்கை 90

(2) புதுக்கித் திருப்பிய நாள் May. 88

(3) ஆதாரங்குறிப்பவர் சுருக்கொப்பம்

தமிழ்நாடு ஆவணக் காப்பகம்.

தமிழ்நாடு அரசு

P.W.D. துறை

அரசாணை எண். 536.W. அச்சகம்
மு. கோப்புத் தாள் எண். பலவகை

நாள் : 16.2.1888 198 .

மடிக்கவோ கண்டபடி கையாளவோ கூடாது

ஆவண, கா-1—18,006—15-6-87.

16th February 1888, No. 536 W., Public Works.

536/1

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Military Works.

Read—the following letter from Brigadier-General E. FAUNCE, Quartermaster-General, to the Secretary to Government, Military Department, dated Ootacamund, 25th January 1888, No. 264 B.

Referring to paragraph 2 of this office letter, No. 1633 B., dated 2nd July 1887, recorded in Proceedings of Government, No. 4288, dated 18th idem, I have the honor, by order, to forward, for sanction and transfer to the Public Works Department for disposal, the estimate, plan, &c., below mentioned, which have been approved by the Commander-in-Chief. The plan and estimate have been countersigned:—

I. Estimate, Rs. 5,555, for constructing a guard-room for a European guard and a fire-engine shed for the Ordnance Depôt at Agram, Bangalore.
II. Plan.
III. Report and specification.

2. This estimate is submitted in lieu of that for Rs. 1,490 sanctioned in G.O., No. 3059 W., dated 18th December 1885 (Military Department No. 48, dated 5th January 1886), for constructing a guard-room for *Native* troops.

No. 681, Military.

Approved and transferred to the Public Works Department for disposal.

(By Order.)

Fort St. George,
31st January 1888.

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

Order—dated 16th February 1888, No. 536 W., Public Works.

The estimate, amounting to Rs. 5,555, for constructing a European guard-room and a fire-engine shed for the Ordnance Depôt at Agram, Bangalore, is sanctioned.

2. The necessary provision of funds for the work will be made in the final issue of the Military Works budget for 1888-89.

3. This sanction, which supersedes that accorded in G.O., No. 3059 W., dated 18th December 1885, has been registered as Imperial, Ordinary, No. 66 W. of 1887-88, and classified as Military, Original Works.

(True Extract.)

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

To the Superintending Engineer, V Circle, with four enclosures.
" Examiner, Public Works Accounts, with the duplicate abstract estimate.
" Military Department.

Exd. J. Moses.

Spare Copies

BUILDINGS AND ROADS.
MILITARY WORKS.

Govt. of {1888} Madras.

PUBLIC WORKS.

Dated February, 16th.

Recd. *Enc*

G.O., 16th Feb. 1888, No. 536 W.

FEBRUARY.

Ordnance Depot at Agram

Estimate for constructing a European guard-room and a fire-engine shed for the —, Bangalore, sanctioned with remarks.

536/9

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Military Works.

Read—the following letter from Brigadier-General R. C. STEWART, Quartermaster-General, to the Secretary to Government, Military Department, dated Ootacamund, 29th April 1885, No. 944 B. :—

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

I. Estimate (Rs. 3,020) for constructing additional works to the Agram entrenchment at Bangalore, with specification.
II. Plan.

2. The necessity for the works is given in the report of the Executive Engineer, Presidency division, dated 8th instant.

No. 2349, Military.

Approved and transferred to the Public Works Department for disposal.

(By Order.)

Ootacamund,
2nd May 1885.

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

Order—dated 29th May 1885, No. 1250 W., Public Works.

The estimate, amounting to Rs. 3,020, for constructing additional works to the fortified post at Agram, Bangalore, is sanctioned as supplemental to the estimate sanctioned in G.O., No. 3060 W., dated 30th October 1883.

2. This sanction has been registered as Imperial, Ordinary, No. 14 W. of 1885-86, and classified as Military, Original Works.

(True Extract.)

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

To the Superintending Engineer, V Circle, with four enclosures.
„ Examiner, Public Works Accounts, with general abstract estimate.
„ Military Department.

Exd. E. Fernandez.
Spare Copies

BUILDINGS AND ROADS.
MILITARY WORKS.

Govt. of 1885 Madras.

PUBLIC WORKS.

Dated May, 29th.

Recd. *Encl.*

G.O., 29th May 1885, No. 1250 W.

MAY.

Fortified Post at Agram, Bangalore

Estimate for additional works to the —, sanctioned.

18th December 1885, No. 3059 W., Public Works.

536/3

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Military Works.

Read—the following letter from Brigadier-General R. C. STEWART, Quartermaster-General, to the Secretary to Government, Military Department, dated Bangalore, 3rd December 1885, No. 534 T.:—

I have the honor, by order, to forward, for sanction and transfer to the Public Works Department, for disposal, the plan and estimate below-mentioned, which have been approved by the Provincial Commander-in-Chief. The plan and estimate have been countersigned:—

Plan and estimate, amounting to Rs. 1,490, for constructing guard-room and fire-engine shed for the new Ordnance Depôt at Agram, Bangalore.

Endorsement on the above.

No. 6900, Military.

Approved and transferred to the Public Works Department for disposal.

(By Order.)

Fort St. George, 4th December 1885.

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

Order—dated 18th December 1885, No. 3059 W., Public Works.

The estimate, amounting to Rs. 1,490, for constructing a guard-room and a fire-engine shed for the Ordnance Depôt at Agram, Bangalore, is sanctioned as supplemental to the estimate sanctioned in G.O., No. 1250 W., dated 29th May 1885.

2. This sanction has been registered as Imperial, Ordinary, No. 53 W. of 1885-86, and classified as Military, Original Works.

(True Extract.)

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

To the Superintending Engineer, V Circle, with two enclosures.
„ Examiner, Public Works Accounts, with the estimate.
„ Military Department.

Exd. J. Moses.
Spare Copies

BUILDINGS AND ROADS.
MILITARY WORKS.

Govt. of (1885) Madras.
PUBLIC WORKS.

Dated December, 18th.

Recd. *Encl.*

G.O., 18th Dec. 1885, No. 3059 W.

DECEMBER.

Guard-room and Fire-engine Shed

Estimate for a — for the Ordnance Depôt at Agram, Bangalore, sanctioned.

GOVERNMENT OF MADRAS.

MILITARY DEPARTMENT.

56/4

18th July 1887, No. 4288.

Defences—Fortified Posts.

Read the following paper:—

No. 276. *From Brigadier-General E. FAUNCE, Quarter Master General, to Brigadier-General A. KENNEY-HERBERT, Secretary to Government, Military Department; dated Ootacamund, 2nd July* 1887, *No.* 1633-*B.*

I have the honor, by order, to forward, for the information of Government, a report on the Agram Entrenchment at Bangalore, and, in doing so, I am desired to say that the Commander-in-Chief approves the proposal made in para. 4 of the report relative to the construction of walls of rubble stone-in-clay in lieu of the mud-walls forming a covered passage between the Female and South Station Hospitals, and will cause an estimate for the work to be prepared in view to its execution next year.

2. His Excellency concurs in the opinion expressed in para. 20 of the report as to the desirability of having a European guard over the magazine in question, and proposes, with the approval of Government, to call for a plan and estimate for the work, so that it too may be executed next year.

3. The expenditure of a fixed sum of Rs. 200, proposed in the latter part of para. 4 of the report, to be utilised in maintaining the musketry parapets, ditch, &c., is, in the opinion of the Commander-in-Chief, unnecessary, as the Executive Engineer can provide such sums of money as may be necessary each year from the Repair Grant for the Division, under the sanction of the General Officer Commanding.

From Major-General HUGH ROWLANDS, V.C., C.B., Commanding Bangalore Division, to the Quarter Master General, Ootacamund; dated Bangalore, 20th May 1887, No. 54-O.I.

I have the honor to submit a report on the Agram Entrenchment, together with plan and sections and details of armament, &c., in accordance with instructions conveyed in S.G.O. No. 81, dated September 6th, 1883, pages 187 to 189, after my inspection on May 18th, 1887.

2. The Agram Entrenchment consists of a piece of land, 37½ acres in extent, in the form of a five-sided irregular polygon, four sides (the north, east, south-east, and south) of which consist of a musketry parapet and a V shaped ditch, and the west side is defined by the two wings and central buildings of the South Station Hospital. At the south-east angle is the magazine and small-arm ammunition store, surrounded by a strong masonry wall, loop-holed for musketry, and the out-houses attached, the whole forming the so-called Ordnance Depôt. At each of the five other angles of the work is a cavalier bastion, so built, &c., that a gun on an ordinary field carriage can fire en-barbette over the salient angle through either of two embrasures for flanking the ditches on either side of the bastion.

3. The European Female Hospital, standing on the west side of the above enclosure and but a short distance from it, has been joined to the north end of north wing of the South Station Hospital by means of two mud-walls, loop-holed for musketry, about 8 feet high.

4. The mud-walls, forming covered passage between the two hospitals, are in a very dangerous and unsightly condition, owing to the heavy rains of last year. It is therefore proposed to remove and rebuild them entirely with plain rubble stone-in-clay; walls to be 18" in thickness and 8½ feet high with slab stone coping sloping outwards and loop-holes at 4½ feet in height

from the ground and placed 5 feet from centre to centre for musketry. The Superintending Engineer, V Circle, supports the recommendations of the Executive Engineer on this alteration; the loop-holes in stone-walls being made as shown in Defence Committee's type drawing No. 82 in Executive Engineer's office. Rs. 200 per annum is proposed to be expended in maintaining the musketry parapets, ditch, &c.

5. The water-supply is by means of a circular well, 40 feet deep and 24 feet 6 inches in diameter, the depth of water in which between July 1885 and present time has ranged between 20′ 9″ and 26′ 4″ on the 15th January 1887, the least depth at any one time being 16′ 3″ in October 1885. The water is colorless and should be very pure, as it is difficult for any foul matter to get into it unless thrown in. The well is near the Dumloor tank.

6. Watter is supplied to the hospital by means of a 3-inch cast-iron pipe from the Ulsoor Water Works, which feeds two cast-iron tanks each capable of holding 4,330 gallons of water, both erected inside the building.

7. The European Female Hospital is also similarly supplied by the same pipe, which feeds two cast-iron tanks, each capable of holding 1,400 gallons of water inside this building. The hospitals would afford barrack accommodation for the following numbers of men at 100 feet square per man:—

North wing South Station Hospital	74
South „ „ „	74
Dispensary „ „	38
European Female Hospital	61
Infectious Hospital	24
Contagious „	14
Medical Subordinate's quarters	15
Total ..	300

8. All subsidiary buildings, as cook-houses, bath-rooms, latrines, &c., as usually attached to hospitals for European patients, exist and are in good order.

9. The drainage is shown on the plan. All foul drains coming from the South Station Hospital are taken out over and beyond the ditch on the north front, and so clearly cannot influence the well; that from new latrine leads straight out into the ditch on the east front, and the surface drains of the interior of the work debouch at various points into the ditches on the north and east fronts and past the well; should the water in the well show signs of exhaustion after much use, it will be necessary to lead some of these surface drains into it.

10. Opposite the south-east angle of the work in front of the magazine and compound is a deep ravine not yet completely laid open to fire from the top of the magazine; it is customary to employ military prisoners on levelling down the near side of this ravine in the cooler months of the year, but another dam will be added to the existing one, and the head of the ravine will receive attention.

11. The parapets and bastions are all in good order; where the side slopes of the ditch show signs of erosion owing to not having been turfed, they will be gradually turfed from year to year, a certain stated length as of 400 yards of the worst portions being done last year at the most suitable season.

12. The interior of the place is kept free of all loose cattle, goats, and grass-cutters at all times, as otherwise the grass surface and the 1,200 young trees would be destroyed.

13. The armament consisting of six 8″ S.B. howitzers, mounted on travelling carriages; two 8″ mortars, mounted on beds, are in good order.

14. The howitzers have been placed one each in Nos. 1, 3, 4 and 5 bastions and two in No. 2 bastion. The mortars are not in position.

15. The four machine-guns, sanctioned by Proceedings of Government, No. 5368, dated September 2nd, 1886, have not yet been supplied; these have again been asked for, but they have yet arrived in the country.

16. With the exception of 10,000 rounds for machine-guns, the full complement of ammunition, viz.:—

		Rounds.
300 rounds per howitzer	=	1,800
250 „ „ mortar	=	500

is in store and serviceable; no cartridges are made up nor shells filled.

17. The Officer Commanding Royal Artillery considers expense magazines and store sheds for side arms necessary, but I do not propose that, at present, any expenditure on this head should be incurred; the shell and cartridge recesses already provided at each bastion are in good order, and will meet all requirements; whereas the gun stores find cover in the buildings lately vacated

by the Ordnance Department; the shell and cartridge recesses require to be kept locked; pad-locks and keys will be provided.

18. Ranges have been taken from the different bastions and boards will be marked accordingly.

19. A few young trees growing on the sides and near the parapet have been ordered to be removed, as the roots are likely to injure and open out the stone facing and undermine the earth-work.

20. The guard over the magazine is one furnished by a Native regiment, in consequence of there being no building suitable for an European guard; but as there are 836,720 rounds of reserve small-arm ball ammunition stored in the magazine, I consider that a sum of money should be allotted to erect a guard-room adapted for an European Infantry guard.

No. 277. ORDER THEREON, 18th July 1887, No. 4288.

The proposal in para. 2 of the Quarter Master General's letter is approved.

(True Extract.)

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

To the Quarter Master General.
„ Public Works Department.

Exd. F. R. Bantleman.

No. 2108 W a/8th August /87

Communicated to the

Supg: Engineer V Circle

(Sd) J. O. H.

Govt. of |1887| Madras.

MILITARY.

To

The QUARTER MASTER GENERAL,
&c., &c., &c.

Dated July, 18th.

Issued

Recd. *Encl.*

G.O., 18th July 1887, No. 4288.

No. 2108 W a/8th August /87

JULY.
Nos. 276-277.

Supg: Engineer V Circle

Defences—Fortified Posts.

Agram Entrenchment.—Erection of a guard-room for the European Infantry guard to be placed over the magazine in the —, approved.

With order

QUARTER MASTER GENERAL'S OFFICE,
Ootacamund, 25th January 1888.

Barracks and Buildings
Estimates.

No. 264 B

53/6

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

To
THE SECRETARY TO GOVERNMENT,
MILITARY DEPARTMENT.

SIR, Referring to para 2 of this office letter No. 1633 B dated 2nd July 1887 recorded in P. G. No. 4288 dated 18th Idem,

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

I. Estimate Rs. 5,855 for constructing a guard room for a European guard and a fire Engine shed for the Ordnance Depot at Agram, Bangalore.

II. Plan

III. Report and specification.

2. This estimate is submitted in lieu of that for Rs. 1490/- sanctioned in O. G. No. 3059 W. dated 18th December 1885. (M. D. No. 48 dated 5th January 1886) for constructing a guard room for Native Troops.

I have the honour to be
Sir
Your Obedient Servant
[illegible] Scott
Lieut. Colonel
Dy: Quarter Master General

6 Spare copies of the O. G. on this letter are [illegible]

P.W.C. No. 1019

Military (1888) Department.

No. ~~6~~78

From

THE QUARTER MASTER GENERAL,

To

THE SECRETARY TO GOVERNMENT,
MILITARY DEPARTMENT.

2 FEB 8

No. 264 B

Dated 28th } January.
Received 30th }

Rg 2.2.88

ENCLOSURES. + 1 Estimate, (+ 1 Plan) & 1 Report, Copy &c.

Forwards for sanction and transfer to the Public Works Department an estimate, plan &c. regarding constructing a guard room for Native Troops, Bangalore.

P.G. 5.1.86, No. 57-58 a
" 18.7.87, No. 4288 (Confd.)
[illegible] Report on Agram [illegible] [illegible] Bangalore

No. 1250 W d/ 29.5.83
" 3059 W d/ 18.12.85
" 2108 W d/ 8.8.87

2 FEB 8

No. 681

Approved and transferred to the Public Works Department for disposal.

(Byrdu)

A Kenney Herbert Br Genl.
Secretary to Government.

Fort Saint George }
31st January 1888 }

Public Works Department.

Current No. 1019 [illegible]
Letter No. 681
Dated ~~the~~ 31st January 1888
From the Secy: to Govt: Mily: Deptt.

Sanction [illegible]
10.2.88

NOTE OF REMARKS.

The Estimate under review amounts to Rs 5,555 and provides for constructing a guard room for a European guard and a Fire Engine Shed for the Ordnance Depôt at Agram Bangalore.

It is explained that the estimate is submitted in lieu of that for Rs 1490 sanctioned in G. O. No 3059 W d/ 18th December 1885 for constructing a guard room for native troops. The proposal to substitute a guard

P.W.C. No. 1019

room for European instead of Native troops is approved in the Mily: Deptt: vide G. O. No 4288 d/18th July 1887 —

The rates are fair — The Estimate has been Countersigned by the Quarter Master General and approved by Govt: in the Military Deptt: —

10/2
88

HWO
14.11.88

536 W

Int
B

PUBLIC WORKS DEPARTMENT.

No. 536 W

PROCEEDINGS OF THE MADRAS GOVERNMENT.

UNDER date the 16th Feby/88

READ the following

From the Quarter Master General. H. E. No. 264 B d/25th January 1888.
Endorsement by the Military Department. H. E. No. 681 d/31st January 1888.

The estimate amounting to Rs 5,555, for constructing a European guard-room and a fire engine shed for the Ordnance Depôt at Agram, Bangalore, is sanctioned.

2. The necessary provision of funds for the work will be made in the final issue of the Military Works budget for 1888-89.

3. This sanction, which supersedes that accorded in G. O. No. 3059 W dated 18th December 1885, has been registered as Imperial Ordinary No. 66 W of 1887-88 and classified as Military Original Works.

13.2.88

To
The Suptg. Engr. V Circle with 4 enclos.
" Examiner of P. W. Accts with the duplicate abstract estimate.
" Military Department

23/2

13/2/88

13/2

£16/10

J

13 May 16/2

HWO 14.6.88

R 16 vi 88

1019.

Govt. of {1888} Madras.

PUBLIC WORKS.

17/2

Dated

Recd. Encl.

G.O., 16/2/1888 No. 536 W.

17

Ordnance Depot at Agram

≡

Estimate for constructing a European guard room and a fire engine shed for the — Bangalore

Sanctioned with remark.

80/5

17/2