Archives I -10,006—16-8-77.

(1) Number of pages 302

(2) Date of repair -4-87

(3) Initials of the Referencer

TAMIL NADU ARCHIVES

GOVERNMENT OF TAMIL NADU

P.W. DEPARTMENT

G.O. No. 2742 W
B.P. No.

Press.
Mis.

Dated 21.10.82 ~~6.1.1883~~ ~~197~~.

Not to be folded or roughly handled

2742/1

21st October 1882, No. 2742 W., Public Works.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil Works.

No. 130.

Read—the following letter from J. C. LARMINIE, Esq. Executive Engineer, in charge First Circle, to the Chief Engineer, Public Works Department, dated Dowlaishweram, 5th October 1882, No. 1564 G.D.:—

With reference to your memorandum No. 1690 C., dated 19th September 1882, I have the honor to inform you that the rough plan of the filter was forwarded to the Inspector-General of Jails with this office letter No. 1112, dated 30th July 1881, at the request of that officer. A copy of the estimate for the filter is herewith submitted.

2. A filter of the pattern in question has been built in the Central Jail, Rajahmundry, but has not yet been worked.

No. 131.

Order—dated 21st October 1882, No. 2742 W., Public Works.

The work in question having been completed, the foregoing letter will be recorded with reference to paragraph 8 of the Chief Engineer's note printed with Proceedings of Madras Government, No. 2507 W., dated 26th September 1882.

(True Extract.)

Lieut.-Col., R.E.,
Ag. Under Secy. to Govt., P.W.D.

To the Superintending Engineer, First Circle.
" Inspector-General of Jails.
" Examiner, Public Works Accounts.
" Judicial Department.

Exd. S. T. Austin.
Spare Copies

BUILDINGS AND ROADS.
CIVIL WORKS.

Govt. of (1882) Madras.
PUBLIC WORKS.

Dated October, 21st.

Recd. *Enc*

G.O., 21st Oct. 1882, No. 2742 W.

OCTOBER.
Nos. 130-131.

Filter in the Central Jail, Rajahmundry.

Letter from the Executive Engineer, in charge First Circle, forwarding a copy of the estimate for the construction of a — recorded with remarks.

2742/2

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil Works.

No. 201.

Read—the following papers:—

From Lieutenant-Colonel T. E. TENNANT, Inspector-General of Jails, to the Secretary to Government, Public Works Department, dated Ootacamund, 29th June 1880, No. 168.

4 Plans.
2 Estimates.
1 Specification.
1 Letter, District Engineer, No. 2944, dated 4th January 1876.
1 Letter from Assistant Engineer, No. 401, dated 18th February 1876.
1 Letter from Superintendent, Central Jail, No. 65, dated 9th May 1876.
1 Copy of G.O., No. 1727, dated 18th June 1875.

I have the honor to forward, for the approval and orders of Government, the accompanying four plans and an estimate, amounting to Rs. 21,574, for the proposed water-supply to the Rajahmundry Central Jail and for the improvement of the existing drainage; also a supplementary estimate, amounting to Rs. 590, for supplying water to the Jailor's quarters attached to the jail.

2. As explained by the District Engineer, the amount of the original estimate for the construction of the Central Jail was Rs. 3,53,263, and the expenditure against it has been Rs. 3,29,200, leaving a balance of Rs. 24,063 available for further expenditure. A sum of Rs. 1,550 only (exclusive of wells) was allowed in the original estimate for the water-supply and drainage, out of this amount Rs. 177 only were spent for a small quantity of iron piping.

3. The specification accompanying the plans explains the general arrangements proposed. On these I beg to make certain remarks for the consideration of Government. The proposed iron cistern (30 feet by 20 feet by 4 feet) will hold 14,957 gallons of water, which will give a little over 13½ gallons per head for 1,100 men. It is proposed to carry the water from the cistern by a 6-inch pipe to a series of 4-inch pipes which are to be carried round the jail, arranged in the form of a nonagon inscribed in a circle of 280 feet radius. At each angle of the nonagon will be placed a four-way cock to regulate the supply of water to the various compartments, minor 2-inch pipes are to carry the water to the workshops, cook-rooms and female compartment. I consider that the water for drinking purposes should be filtered. The plan of filter I would recommend is taken from Dr. Clarke's work on Army Hygiene. These filters have been adopted in the Coimbatore and several other jails, they have been working for some years and have answered well. At Coimbatore no cost was incurred for their construction except for chunam, as there were plenty of old bricks and stones available at the time.

4. As regards the pumping apparatus and lifting gear the Assistant Engineer recommends that a Bastier chain-pump should be procured from England, and that for working the pump a tread-wheel (to be worked by twenty-eight men) with necessary breaks and regulating gear should be attached. He estimates the cost of the former at Rs. 2,500 and that of the latter at Rs. 2,000. I have never seen the Bastier chain-pump at work, but unless it is simple and not likely to get out of order it will not suit jail work. There are however many excellent kinds of pumps, each claiming its own special advantages: but I would prefer a good double barrel lift and force-pump, made of gun metal, with double lever handles and easy access to valves, every part of the pump should be very strong and very simple, as it is liable to rather rough and ignorant usage occasionally. A pair of smaller pumps will perhaps be better than one large one, for the reason that repairs can be effected without discontinuing the supply of water, and the first cost will not be much more than that of the large one.

5. The surface drainage of the interior of the jail is defective and requires attention, a carefully devised system of surface channels conducting the rain water to the most convenient points at the main wall and a sufficient number of vents or apertures for the escape of the water ought to be provided. I request that the necessary orders may be issued in the Public Works Department.

No. 201-A.

Memorandum from the same Officer, dated Madras, 16th December 1880.

The Inspector-General of Jails has the honor to request attention to his letter entered in the margin regarding supply of water, &c., to the Central Jail at Rajahmundry.

Dated 29th June 1880, No. 168.

No. 201-B.

Note by the Chief Engineer, Public Works Department.

The Inspector-General of Jails submits plans and estimates amounting to Rs. 22,164 for—

I. Supplying the Rajahmundry Central Jail with water;
II. For the improvement of the existing drainage, and
III. For the supply of water to the Jailor's quarters.

2. The original estimate for the construction of the Central Jail was Rs. 3,53,263 and the expenditure against it has been Rs. 3,29,200, leaving a balance of Rs. 24,063 available for the proposed works.

3. The general scheme is to provide an iron supply-cistern, from which a flow of water to the various smaller cisterns and buildings may be arranged by means of pipes and cocks. The supply is calculated for 1,100 men at the rate of a little over 13½ gallons per man per day.

4. It is proposed to purify the drinking water by means of a filter constructed on the plan recommended by Dr. Stewart Clarke in his book on "the Hygiene of the Army of India." A filter of this description was constructed in the Coimbatore Central Jail and the Inspector-General of Jails states that it has "answered the purpose remarkably well."

5. For raising the water from the well to the supply-cistern the Inspector-General of Jails prefers, "a *pair* of good double barrel lift and force pumps, with double lever handles, &c."

6. The water will be distributed by gravitation from the supply-cistern to the various points where it is required.—(*Vide* general plan of the arrangement for distribution).

7. The drainage will be improved by converting some of the existing drains into V shaped drains and constructing others of similar shape where required. —(*Vide* general plan.)

8. An estimate for a Stewart Clarke's filter does not accompany these papers, but it has been called for and will be submitted in due course. A balance of Rs. 1,899 is available to cover its cost after meeting the other estimates herewith submitted.

(Signed) R. H. SANKEY, Col., R.E.,
Chief Engineer, P.W.D.

13th September 1882.

No. 202.

ORDER—dated 26th September 1882, No. 2507 W., Public Works.

The estimates amounting to Rs. 22,160, for water-supply and drainage of the Rajahmundry Central Jail, are sanctioned for execution by the Public Works Department.

2. An appropriation of Rs. 22,164 is made for the works in the Convict Labor Fund Budget of the current official year.

3. This sanction has been registered as Provincial No. 119 W. of 1882-83 and classified as Civil Buildings, Original Works.

(True Extract.)

(Signed) R. H. SANKEY, Colonel, R.E.,
Secretary to Govt., P.W.D.

To the Inspector-General of Jails.
" Superintending Engineer, First Circle.
" Examiner, Public Works Accounts.
" Judicial Department.

Exd. S. T. Austin.
Spare Copies

BUILDINGS AND ROADS.
CIVIL WORKS.

Govt. of {1882} Madras.
PUBLIC WORKS.

Dated September, 26th.

Recd. *Encl.*

G.O., 26th Sept. 1882, No. 2507 W.

SEPTEMBER.
Nos. 201-202.

Central Jail, Rajahmundry.

Estimates amounting to Rs. 22,160 *for water-supply and drainage of the* —, sanctioned, and Rs. 22,164 appropriated from the Convict Labor Fund.

No. 101

Ootacamund
Insp: Genl: of Jails' Office
15th June 1881

2242/4

From Lt: Colonel J. E. Tennant
Inspector General of Jails

To The Chief Engineer and
Secretary to Government. D.P.W.
Ootacamund

Enclosure One

Sir,

The Officer in Medical charge of the Central Jail at Rajahmundry has represented the want of a filtering cistern for drinking water in that Jail. I have therefore the honor to request that orders may be issued in the Department of Public Works for constructing a filter on the plan recommended by Dr. Stewart Clark in his book on the Hygiene of the Army in India.

2 I enclose a rough sketch of the proposed filter which is similar to the one constructed in the Central Jail at Coimbatore and which has been found to answer the purpose remarkably well. Funds will be available for this work from the Convict labor fund.

3. I request that early orders may be issued for the work to be taken in hand without delay.

I have the honor to be,
Sir
Your Most Obedient Servt

Inspector General of Jails

P.W.C. No 3632

Jail (1881) Department.

From P.W.D. June

THE INSPR.-GENERAL OF JAILS,

To Engineer and

THE CHIEF SECRETARY TO GOVT.,

P.W.D.

~~Fort St. George.~~ Ootacamund

Dated 15
Received 18 } June 1881.

No. 101

ENCLOSURE. One
(1 plan)

Subject.

Requesting orders for the construction of a filter for drinking water at Central Jail, Rajahmundry on Dr. Stewart Clark's plan

With order

With order

No. 1573 W

B

No. 1573 W a/ 23rd June /81

Communicated to the Supdt. of Works Godavari who will have an Estimate prepared for the work, which will be carried out from funds to be provided by the Inspr. Genl of Jails from the source indicated —

C.C.?

Supdt. of W. Godavari
with 1 enclo.
Inspr. Genl. of ~~[illegible]~~ Jails —

Dr. 16/6/81
O.L.S. 19-6-81.

Ex 140
23/6/81

Pl.W. 3632/81.

G.O. No. 6313-7780 of 1880.

S.A.W. C.A.39 2242/5

Please call for an estimate for a Clark's Filter for the Rajahmundry Jail similar to the one in Coimbatore Jail — vide — enclosing para in my note on Rajahmundry Jail water supply — Called for.

See para 2 of Inspector Genl. of Jails letter No 101 of 15th June 1881 herewith — Have we got the rough sketch of the filter he alludes to.

13-9-82

S.A.W.

The Estimate wanted is that called for in G.O. 1573 W. d/23 June 81 herewith. Which reply has been received to this? If none - call for report. The plan you will observe went to the S.E. or rather "Supt. of works" at the time

R.S. 10/9

CHEPAUK, 19th Septr 1882

No. 1690 C

272/8

MEMORANDUM.

The Chief Engineer has the honor to request that the Supt. Engineer First Circle will be good enough to report what action has been taken on G.O. No. 1573 W. of 23rd June 1881 and to forward to this office for reference, as early as possible, the Estimate therein alluded to, together with the rough plan of filter forwarded to the Supt: of works Godavari with the G.O

(By Order.)

for C Vincent

~~Lieut.-Colonel, R.E.~~

~~Ag. Under Secretary to Government, P.W.D.~~ For Chief Engr P.W.D.

To

The Supt. Engineer First Circle

THE SECY. TO GOVERNMENT,
P. W. D.

To
The

Dated
Despd 188
Recd

No.
ENCLOSURES.

1. 1690 C d/ 19-9-82

6998

2742/9

D. W.

The accy. estimate for a Stewart Clarke's filter for the Rajahmundry jail has been submitted with reference to your note of the 13th Sept, attached to memo No 1690 C d/ 19.9.82

Ca
16/10/82

S. A. W

Send on after check by the Technical Branch.

TR
17.10.82

D. W.

The estimate has been checked by the

Technical Section, but as the work has been completed, it seems unnecessary now to sanction it.

The amount is only Rs 183, well within the Supdg Engr's power of sanction, & the estimate was doubtless sanctioned by that authority before the work was put in hand.

It will be sufficient now perhaps to say "The work having been completed, these papers will be recorded with reference to para 8 of the Ch. Engr's note ~~[illegible]~~ printed with P.G. No 2507 W. d/26 Sept 82"?

S.A.W. Cy
20/10/82

All right.
20.10.82

CLASSIFICATION.

DESCRIPTION.

1792

Detailed Estimate No. , of 18 [illegible] . 8

Godavari District.

Superintending Engineer's Office 1st. Circle.

Financial head

Budget head [illegible]

Departmental head

Main head

Sub head

Name of work Constructing Filter for the Central Jail. Rajahmundry.

Amount of Estimate, Rupees

To be carried out by, Public Works Department.

Particulars of work.	No.	Measurement.			Cubic Contents.
		Length.	Breadth.	Depth.	
1	2	3	4	5	6
Concrete in Surki mortar.					
Under side walls, Cisterns &c. in block	1	17-0	11-3	1-6	286-10½
do Small Cistern left side	1	0-5	3-2	0-6	0-8
Do. Do. remaining below main	1	0-6	3-2	0-3	0-5-9
Do. Semicircular space	1	4-0	area	0-6	2-0
Do. Cistern right side	1	1-0	2-0	1-6	3-0
Total Concrete Surki Mortar C. ft.					293-0
Brick in Surki mortar.					
Side walls including backing &c.	2	16-0	2-0	3-9	240-0
End walls	2	6-3	1-6	4-0	75-0
Partitions	2	6-3	0-9	3-3	30-5-6
Cistern left side	1	3-6	0-4	1-3	1-5-6
Do. remaining	1	4-6	0-4	0-6	0-9
Do. right side	1	1-0	1-0	3-3	3-3
Total brick work in Surki Mortar C. ft.					351-0

Archwork.

Arch Segmental	1	13-6	6-9	0-9	68-3
			Total.		68-3
Deduct for openings at top	3	1-6	1-6	0-9	5-0
Total brick archwork in Surki mortar less deductions					63-0

Plastering 2 Coats Surki Cement

Cistern large	1	22-0	"	2-10½	63-3
Do. Floor	1	6-3	4-9	"	29-9
Cistern small	2	19-3	"	2-10½	110-8
Do. Floor	2	6-3	3-4½	"	42-2
Segmental spaces of partitions	6	6-3	"	0-5	15-7
Soffit of arch	1	11-6	"	6-6	74-9
Outside of Filter sides & top	1	16-0	"	17-6	280-0
Do. at ends	2	10-3	"	4-0	82-0
Cistern left side in & out sides	1	9-0	"	1-9	15-
Do. Floor	1 1	0-5 0-7	1-6 1-6	" "	0-7 0-10
Do. right side front & rear	1	2-0	"	4-0	8-
		Total			724-
Deduct for open spaces at top in arch	3×2	1-6	1-6	"	13-0
Total plastering 2 Coats			Sq. ft.		710-6
Cut stone coping over small cistern					

Abstract.

2742/11

No. or Quantity.	Description of work.	Rate.	Per.	Amount.	Total.
1	2	3	4	5	6
300	C. ft. Concrete in Surki mortar	13-4-0	100 c. ft.	40	
350	Do. Brick in Do.	21-4-0	Do.	74	
65	Do. Do. Archwork in Do.	23-4-0	Do.	15	
7	Squares Plastering 2 Coats Surki Cement	3-4-0	100 sq. ft.	23	
	Cut stone coping over small cistern			1	
3	Wooden covers to cisterns			6	
	Iron works			5	
	Excavating foundations &c.			5	169
	Contingencies				11
	Total Rupees				180

(Signed) J. C. Larminie
Executive Engineer
Ag. Supdt. of Works G. D.
12/7/81

Larminie
Executive Engineer
Incharge 1st Circle

A3

From

The Superintending Engineer
First Circle.

To

The

Dated
Despatched
Received
188

Estimate for Constructing Filte

for the Central Jail, Rajah-mundry.

Amount of Estimate Rs 18

Public Works Department, 1882-83.

2342/12

Current No. 6998
Letter No. 1564
Dated the 5.10.82
From the Supg. Engr. First Circle.

NOTE OF REMARKS.

Est: for constructing Filte for the Central Jail at Rajahmundry in the Godav Dist: amounts to Rs: 180 -

The rates cannot be checke for want of a proper Schedule -

The Est: has not been countersigned by the Supdt. Genl: of Jails -

The Exe Engr. submits no Plan, but reports that a Clarke's filter has been buil in the Central Jail at Rajah-mundry & has not yet been worked -

It may be necessar to procure a correct plan of this filter & adopt it as a Standard -

2742/13

P. W. Secretariat.

C. No. 6998

Note by Budget Section.

Work

Constructing Filter for the Central Jail at Rajahmundry

Remarks and References.

Fund Provincial

Service Head Civil Buildings

Departmental Head Original Works

Amount of Estimate … … … … Rs. 180

Expenditure in previous year … … „ 180

Allotment in current year … … … „ –

Balance required to complete … … „ –

Total Rs… 180

Note of available funds.

The work appears to have been carried out as will be seen from G.O. No. 1573 W of 23d June 1881 and para 2 of the Ex. Engineer's letter No. 1564 G. D. d/ 5 Oct. /82

CH

Budget Clerk.

19/10/82

G.O.b No 2507 W d/26-9-82.

B No 1573 W d/23.6.81.

Note by Budget Section.

274 W

No. 1564 G.D. 2742/14

From,

The Executive Engineer
In charge 1st Circle.

To,

The Chief Engineer
P.W. Department.

Dowlaishweram 5th October 1882.
Despd 9th

Print without encls

Enclosure 1

Sir,

With reference to your Memo No. 1690 C. dated 19th September 1882, I have the honor to inform you that the rough plan of the filter was forwarded to the Inspector General of Jails with this office letter No. 1112 dated 30th July 1881 at the request of that officer. A copy of the estimate for the Filter is herewith submitted.

2 A filter of the pattern in question has been built in the Central Jail Rajahmundry, but has not yet been worked.

I have the honor to be,
Sir,
your most obedient Sert

Ex: Engr in Ch: 1st Circle.

Compd

B & R
Civil Wks.

No. 2742 W a/21st Octr/82
A

The work in question having been completed, the foregoing letter will be recorded with reference to para 8 of the Ch. Engr's note printed with P.O. No 2507 W of 26 Sept 82.

Cu

20.10.82

W. C. No 6978

From
The Supg Engineer
1st Circle

To The Chief Engineer
P. W. D.
Madras

Dated 5th }
Despd 9th } October 1882
Received 11 }

No 1564 G.D.
Enclosure One

Filter in the Central Jail Rajahmundry-
Rough plan for the-
Informs that the has been sent to the Inspector General of Jails at his request ~~& that~~ a copy of the Estimate for it is sent =

by the order

12.30 p.m. 21/10

4/5

Despd 27/10/82

S. E. First Circle
Inspector Genl of Jails
Ex. Prov.
Genl Dept
21

6298

Govt. of (1882) Madras.

PUBLIC WORKS.

Dated 21/10

Recd. Encl.

G. O. 21st Octr. 1882, No. 2742 W.

Nos. 130 to 131

Filter in the Central Jail · Rajahmundry.

Letter from the Ex Engr in Charge 1st Circle fordg. a Copy of the Estimate for the ~~proposed~~ construction of it —

Recorded with Remarks.

21/10

[illegible]/10

Entd. in Receipt Register