Archives I—10,006—16-8 77.

(1) Number of pages 32

(2) Date of repair 7.11.86

(3) Initials of the Referencer

TAMIL NADU ARCHIVES

GOVERNMENT OF TAMIL NADU

Public Works. DEPARTMENT

G.O. No. B.P. No.	1354 (W)	Press. Mis.
Dated	12.5.1879	197.

Not to be folded or roughly handled

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

12th May 1879, No. 1,354 W.

Buildings and Roads.
Civil Works.

Read the following papers :—

No. 86. Endorsement of the Acting Chief Secretary to Government, Financial Department, dated Fort St. George, 22nd January 1879, No. 166.

From C. W. W. MARTIN, Esq., Acting District Magistrate, Madura, to the Acting Chief Secretary to Government, dated Madura, 19th January 1879, No. 42.

WITH reference to G.O., in the Financial Department, dated 19th November 1878, No. 2,041, I have the honor to submit for sanction the plan and estimate for constructing a dead-house at Pulney at a cost of Rupees 910, and to request that orders may be issued in the Public Works Department for the execution of the work from Provincial Funds.

APPROVED and transferred to the Public Works Department for disposal.

(Signed) C. G. MASTER,
Ag. Chief Secretary.

No. 86-A. From J. W. RUNDALL, Esq., Acting Superintending Engineer, Fifth Circle, to the Chief Engineer, Public Works Department, dated Trichinopoly, 12th April 1879, No. 235.

IN returning the enclosures to your letter No. 596, of 10th February 1879, I have the honor to forward a design with specification and estimate for a cheaper description of dead-house as requested. The design now submitted is recommended by the Surgeon General, Indian Medical Department, in his letter No. 220, dated 15th January 1879, addressed to the Acting Secretary, Board of Revenue.

One Revised Estimate, Rupees 230.
,, Revised Plan.
,, Original Estimate.
do. Tracing.
,, District Magistrate's letter, No. 42, 19th January 1879.

No. 86-B. From the same Officer, dated Trichinopoly 27th April 1879, No. 42 M.D.

IN answer to your No. 1,530, dated 21st April 1879, returning the plan and estimate for Pulney dead-house, I have the honor to state that I regret having omitted to inform you as to the necessity for its construction. In answer to my inquiry on this subject, the Collector of Madura informs me that the Medical Officer in charge of the Dispensary there as well as the

One Original Estimate.
do. Plan.
,, Letter.
,, Revised Plan.
,, do. Estimate.

Deputy Surgeon-General, Indian Medical Department, urged the necessity of building a dead-house, and that the Government in ordering the preparation of a design* appears to have recognised the necessity. The Collector is however of opinion that many other useful buildings, notably sub-jails, are more urgently required.

No. 87. ORDER THEREON, 12th May 1879, No. 1,354 W.

UNDER the circumstances stated by the Superintending Engineer in the concluding portion of his letter No. 42 M.D., dated 27th April 1879, the Government are of opinion that the construction of the dead-house at the Pulney Dispensary should be deferred.

(True Extract.)

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

To the Superintending Engineer, Fifth Circle
" Financial Department.

Exd. S. T. Austin.
Spare Copies

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* *Vide* G.O., Financial Department, No. 2,041, dated 19th November 1878.

BUILDINGS AND ROADS.
CIVIL WORKS.

Govt. of ~~1879~~ Madras.

PUBLIC WORKS.

To

The SUPERINTENDING ENGINEER,
FIFTH CIRCLE,
&c., &c., &c.

Dated May 12th.

Issued

Read. Fwd.

G. O., 12th May 1879, No. 1,304 W.

MAY.
Nos. 86-87.

Dead-house at the Pulney Dispensary.—The construction of the — to be deferred.

No 42.

Madura District Magistrate's Office
19th January 1879

1334/12

From

C. W. W. Martin Esquire
Acting District Magistrate
Madura

To

C. G. Master Esquire
Acting Chief Secretary
to Government
Madras.

Sir,

With reference to G.O. in the Financial Department dated 19th November 1878 No. 2041, I have the honor to submit for sanction the Plan and Estimate for constructing a dead house at Pulney at a cost of Rs 910 and to request that orders may be issued in the P.W. Department for the execution of the work from Provincial Funds.

I have the honor to be
Sir
Your most obedient Servant

C. W. W. Martin
Acting District Magistrate

J. H.

Copied by E.R.

Pro. of 12-5-79 No. 1354 W.

Financial 19-11-78 No. 2086

No. 166 P2

Approved and transferred to the Public Works Department for disposal.

Fort St. George
22nd ~~January~~ February /79
To the Public Works Department.

C. Macartney(?)
Actg Chief Secy

B. 88

1879
Finl. Department
Fund. Dead-House/

The Ag Distt. Magte
Madura

To

The Ag Chief Secretary
to Govt.
Fort St George
Madras

No. 391

Dated 19th January 1879
Recd 22nd Do
No. 42
Enclosures Two

Requesting sanction for the construction of a dead house at Palney a Cost of Rs 910.8.0 and orders in the P.W. Dept for the execution of the work

H.K. [illegible]

Jan 31

No. 235

Supdg. Engrs Office 5th Circle
Trichinopoly 12th April /79.
Apl 14"

1354/13

Roads and Buildings

From,
J. W. Rundall Esquire
Ag. Supdg. Engineer 5th Circle,

To,
Colol. J. H. M. Shaw-Stewart R.E.
Chief Engineer, D. P. W.

Encls. 5
1 Revised Estimate Rs 230
1 Revised Plan
1 Original Estimate
1 Do Tracing
1 District Magistrate's letter No. 42 19-1-79

Sir,

In returning the enclosures to your letter No. 596 of 10th February 1879, I have the honor to forward a design with Specification and Estimate for a cheaper description of dead house as requested. The design now submitted is recommended by the Surgeon General Indian Medical Department in his letter No. 220 dated 15th January /79 addressed to the acting Secretary Board of Revenue.

I have the honor to be
Sir
your most obdt. Servt.
J. Manson.
for Ag. Supdt. Engineer

Roads and Buildings

From,
The Supt Engineer
To, 5t Circle
The Chief Engineer
P. W. D.

No 235.

Dated 12th
Recd. } April /79.

Pro 9 12-5-79 No 1357 to

No of Enclos: 5.

Dead House at
Pulney —

Forwards Plan and
Estimate of Rs 230 for
constructing a Dead
House at Pulney —

86 A

16/4

C/o 5-5-79
So Rtd 1-5

No 42 M.D.

Superintending Engineer's Office 5 Circle
Trichinopoly 27th April 1879
Despd 28th

Buildings and
Roads -

From
J. W. Rundall Esquire 1354
Ag Superintending Engineer 5 Circle 14
To,
Colonel R. H. Sankey R.E.
Chief Engineer P. W.

Enclo: 5.
1. Original Estt
1. —Do— Plan
1. Letter.
1. Revised plan
1. —Do— Estimate

Sir,

In answer to your No 1539 dated 21st April returning the Plan & Estimate for Pulney Dead house, I have the honor to state that I regret having omitted to inform you as to the necessity for its Construction. In answer to my enquiry on this subject — The Collector of Madura informs me that the Medical Officer in Charge of the Dispensary there as well as the Dy. Surgeon General Indian Medical Department urged the necessity of building a dead house, and that the Government in ordering the preparation of a Design* appears to have recognised the necessity. The Collector is however, of opinion that many other useful buildings, notably subjails, are more urgently required —

vide
* G. O. Financial Depart. No 2041 ~~dated~~ 14th Nov. 1878.

I have the honor to be
Sir
Your Most Obt. Servant.

G. V. Manson
for Ag Supg Engineer 5th Circle

C.C. 596 – 10-2-79
" 1513 – 21-4-79
P.W. 1386 – 8-8-78 Recd. G.O. Aug
" 2011 – 4-11-78 – Recd

Buildings and Road

From,
The Supt. Engineer
5th Circle

To,
The Chief Engineer
P. W. D

No. 42 M.D.

Dated 27th } April 79.
Recd. }

Enclo: 5.

Recd 12-5-79 No. 1354

Dead House at Lubney.

Retransmits the Plan and Estimate for a with the information called for

810

Cir 6-6-79
to Duty [illegible]

1354/7

Specification Report to accompany Plan and Estimate for

1. Amount of Estimate Rs.

Excavation. 2. The trenches for foundations to be carried to a depth of not less than feet i.e. should neither rock nor gravel intervene and the bottom taken out to a uniform level well watered and rammed before filling in the same & if of a light or treacherous soil, gravel to be thrown in well watered and rammed from 1 foot to 6 inches. The foundations are to be inspected & approved of by the Range or Sub Divisional officer before the superstructure is proceeded with.

Concrete. 3. The foundations are to be first filled up with a layer of 6 Inches concrete prepared in proportion of one of brick jelly to one of chunam half or ¾ of sand is to be well mixed up dry & then well mixed together with water. If the same is required to be laid to a greater depth than 6 inches, it should be laid in layers of 6 inches all round, & well rammed down until the proposed height is attained.

Rough stone in chunnam. 4. The foundations to consist of Rough stone in mortar prepared in proportion of one of lime to ¾ of River sand and ¾ of Soorkee well beaten or ground Care must be taken that the water and sand used are altogether free from salt. The stones collected for the work to be wedged, flat side, and as rectangular as possible so that the joints may be fitted closely with mortar. Each course of stone work to be successively finished to a uniform level in a substantial manner all round—

Brick in chunnam. 5. Brick in chunam is to consist of sound and well burnt bricks of Government size (9" × 4½" × 2½") in chunam prepared in proportion of one of lime to 1 of river sand and ½ of soorkee well beaten or ground. Care must be taken that the water and sand used are altogether free from salt. The mortar joints not to exceed ½" in thickness. English bond to be observed throughout. The bricks to be dipped in water as used.

Brick in mud. 6. The bricks to be of the description given in para 5 & the walls to be built up with brick in mud which has been prepared and tempered the day before it is to be used the joints to be scraped out before plastering,

Chunam Plastering. 7. Chunam plastering is to consist of 2 coats of chunam plastering. The first coat of mortar to be prepared in proportion of one of lime to one and half of river sand well beaten and mixed together. The 2nd coat is to be of good lime putty prepared in proportion of one of lime to one of fine white sand, well mixed & ground together Care must be taken that the water and sand used are altogether free from saline particles.

Mud plastering. 8. To consist of mud prepared in proportion of one of clay to 1½ of sand well mixed and tempered the day before it is used The other day the wall to be smoothed with "shani" or cowdung in the ordinary manner.

6

Buff color plastering.

9. The first 2 coats of rough plaster must be put on as usual and then left to dry for fully 3 weeks or if necessary more. After the moisture has entirely left, the 3rd coat of Buff color plaster is to be applied as follows 1 of good white chunam 1 of fine sifted river sand ½ of Superior selected yellow ochre ½ of sarkee made of well burnt wall brick and carefully sifted. These materials must be carefully measured and properly mixed up before they are wetted, mix sufficient quantity of good sweet water grind them sufficiently for fine plaster and when applied to the wall particular care must be taken that the bricklayers do not use their iron trowels, but their wooden ones (மணியாசப்பலகை) With these rub the plaster till it is sufficiently dry to receive the polish with the usual polishing stone which should be rubbed fully more than four or five hours till the plaster gets a good polish and is well consolidated, after the plaster has been exposed for 12 hours take a clean trowel and wipe the wall throughout till it is quite dry on the 2nd day a cooly must be detailed to watch the plastered wall and to wipe off the perspiration

Buff color wash.

10. The white wash having been properly made with cungee and glue (in the proportion of one measure of cungee and ½ lbs. of glue or gum to 10 measures of white wash) the mixture is to be strained through a clean cloth into a clean chatty or other vessel. Take 10 measures of the white wash and add 3 measures of yellow ochre wash strained and ½ do. red ochre wash strained and a few drops of black cocoanut charcoal water strained. Mix these thoroughly together until a buff color of good tone is produced. Color inside and out with the wash. Round the door and window openings inside out a band 9 inches wide of plain white wash is to be left (i. e. over the top and along the two sides as also the bottom of windows.

Red color wash.

11. The basement of the building is to be colored red. The red ochre is thus formed. Take one measure of clean lime 2 measure of red ochre 1 measure of yellow ochre and a few grains of cocoanut charcoal. Mix these ingredients thoroughly together with the linseed oil until a tertiary red is formed & then apply. A band of 6 inches of this color should be neatly painted round the floor of each room inside.

Flooring with square tiles.

12. The ground to be properly levelled and a layer of 9 inches of river sand well watered and rammed to be introduced. Over this a course of wall bricks is to be laid in chunam and over this again a floor of 8 inches square bricks laid on mortar the joints to be scraped out and pointed with lime putty.

Concrete Flooring.

13. For every cottah (3 Madras paras) of fine slaked lime add ⅘ths cottah of soorkee & ⅘ths cottah of sand beat as usual with water and then grind twice add one cubic yard of broken stone jelly (under 1 cubic) and mix them all up with 3 lbs. of jaggery water the floor being well levelled watered tamped and a sprinkling of sand 1 inch thick and free from all saline particles being laid over it the mixture must be thrown on to the depth of either 4½ or 6 inches according to and depending entirely on the nature of soil. The concrete to be beaten in with Tamarind or Caroovala beater or any other strong green sticks of 1¼ inch in diameter, after being well consolidated it must be well levelled and tamped with wooden damass ~~over this~~ apply 2 coats of plaster.

Concrete and tar flooring.

14. For every cottah (3 Madras paras) of fine slaked lime add ¾ cottah of soorkee and ¾ cottah of sand mix these materials well together as usual with water then pound them and finally grind the mixture so that the materials may thoroughly amalgamate. Add one cubic yard of broken stone jelly quartz or granite not pebbles (under 1 inch cube) and mix them all up with 3 lbs. of Jaggery-water. The floor being well levelled watered and tamped and a sprinkling of sand one inch thick and free from Salt being laid over it the mixture must be thrown on to the depth of 6" to be beaten down to 4½ inches. The concrete to be beaten in with tamarind or Kar oovala beaters or any other strong green sticks of 1¼ inch in diameter, after being well consolidated it must be well levelled and tamped with wooden damass over this apply one coat of rough plaster formed of the same mixture as the chunam above described in para 7, and when properly dry apply in stripes of 2½ feet wide with a strout brush made of palmyrah nar a coat of tar heated to boiling point and mixed with chunam in the proportion of 4 to 1. The tar should be heated in the small iron tubs called Kadakal over the tar thus laid sprinkle thin clear sand just slightly to cover the surface and so long as it is absorbed by the tar, then tamp gently with ordinary tampers and afterwards rub well either with smooth wooden boards called Maniasapalagay or with ordinary bricklayers trowels, the bottom surface of which should be previously coated with gingely oil to prevent their adhering to the tar.

Tar course.

15. The walls throughout at a height of 6 inches from the ground are to be laid with a course of tar in lieu of chunam. The object of this is to prevent the ammonia from raising from the ground and destroying the wall.

Lime.

16. All lime used on the work is to be slaked after delivery on the spot. The water used for slaking lime is to be that in which gallnuts have been soaked for 24 hours one pound of gallnut should suffice for seven or eight paras of chunam. The color of the water is the best test as to the amount of soakage required. The water should be only slightly discolored by the gallnuts when used for slaking.

Honey comb Tile work.

17. The honey comb tile work is to consist of potter's tiles laid in chunam as shewn on plan. The tiles are to be made of 12 inches internal diameter ½ inch thick, each end of the pot tile is to be of the same size and each pot tile to be cut into 3 equal parts, the tiles are to be soaked in good white wash before being used. The chunam used for placing tiles to consist of one of lime to one of fine white sand well mixed and ground together as fine as can be used and kept 4 or 5 days to rot, while rotting it should be kept soaked with water & protected from the sun.

Brick trellis parapets.

18. The Verandah parapets to be of the pattern delineated on plan and trellis work to consist of carefully rubbed terrace bricks soaked in white wash and fixed in chunam when completed they will be washed with chunam water, tinted pale buff.

Terracing.

19. The first layer over the joists to be of terrace bricks (6 × 3 × 1") on edge carefully laid diagonally with chunam mortar made one of lime and one of fine sifted sand. The terrace bricks to be of the best kind and well burnt over them a layer of flat bricks of the same kind to be laid in ordinary mortar made of one of lime to 1½ of sifted sand, this work is then to be left exposed to the sun for a week at the expiration of which a layer of good concrete prepared in the proportion of one of brick jelly to one of chunam and ½ or ⅔ sand is to be well mixed up dry and then well mixed together with water. Lay this concrete over the roof 9" thick, beaten down to 5 inches with small wooden mallets by boys for one day on the 2nd day to be beaten down with flat wooden knifes made 3" broad & being well watered all the time, leave the concrete to dry thoroughly for a period of not less than 3 weeks, then rub the roof with a well burnt wall brick and plaster it over with 3 coats of chunam as follows.

The prime coat to be made of one of lime to 1½ of sand, the 2nd coat to be of one of lime to one of sand and the 3rd coat one of lime to ½ of sand; after the roof has been subjected to the action of (monsoon) a further layer of flat tiles and chunam may be necessary.

Roofing.

20. The roof of the building is to consist of well seasoned Teak or ~~Vengay~~ rafters reepers nails flat and pan tiles, chunam borders &c complete & the roof will rest on breastsummers ~~or wall plates~~ as shown on the plan. ~~The wall plates will rest on stones 3 feet apart & 6 inches high on top of walls.~~ The rafters are to be 1½ feet apart and reepers 5 inches from centre to centre or so as to suit the flat tiles & the whole are to be well wood oiled & tarred before being put up.

Wood work.

* 1" in depth for every foot of length & ½" or ⅔" in breadth.

21. The * beams joists rafters &c to be of sound and seasoned Vengay or teak free from knots and cracks and to be of the scantlings provided in the estimate.

Painting.

22. All wood work of every description inclusive of doors windows &c. to be painted with 2 coats of oil prepared in the following manner. The brick red ochre of the bazaar is to be ground down and well mixed by grinding with linseed oil sufficient to give it the consistency of ordinary paint sufficient cocoanut charcoal is then mixed with it so as to tone down the red color.

Doors.

23. To be provided and put in the positions shewn on plan. The frames to be and the door not less than 1" planks. The doors are to be provided each with neatly made wrought iron strap hinges 1'-4" long and bolted with stud heads to the door. They are also to be provided with bolts and coupling iron outside for stout English padlock.

Windows.

24. To be put up in the position shewn on plan. The frames to be Battened shutters to be of 1 inch teak plank to open internally and the hinges to be let in between the frame and the shutter so as to prevent their being interfered with, when shut up each windowshutter to be provided with four 3" iron butt hinges, two iron hooks and eyes 3 six inches bolts &c. complete.

Rejected materials.

25. All rejected materials whether bricks, stone, wood &c. if not at once removed by the individuals contracting for the same will be carted away at his cost.

Rubbish.

26. All rubbish collected during the execution of the work to be carried off and shot at a proper distance from the building and the whole of the place to be thoroughly cleaned up.

27. After the completion of the building it should be handed over to the Department concerned and completion certificate, in the prescribed form, duly signed by the Range officer and countersigned by the receiving officer should be submitted to the District Engineer for transmission to the Controller.

28. A List of fixtures and fittings should also be obtained from the receiving officer and filed in the Range office.

Dindigul Dn. office }
1st April 1879 }

Harington
Dindigul Divisional officer

En in Ltr of 12-5-79 No 13567

Detailed Estimate No of 1879/1880

⑥

Work: Constructing a dead house at Palmy

Particulars of work	Number	Measurement in feet and inches				
		Length		Breadth or thickness	Depth or height	Contents
		Each	Total			
Excavating foundation						
Around building	1	40	40	2½	2	200
Steps	1	4½	4½	1	½	2¼
Filling in basement	1	9½	9½	7½	¼	17¾
Total Excavating foundation cubic feet						220
or cubic yards						8 4/27
Brick in chunam						
Foundation — steps	1	4	4	1	½	2
— " — around building	1	40	40	2	2	160
Basement — steps	1	3½	3½	1	½	1¾
— " — around building	1	40	40	1½	1	60
Superstructure — Pillars at corner	4	3	12			
— " — do — at centre	2	1	2			
			14	1	8	112
Total brick in chunam cft						335¾
or cubic yards						12 47/108
Plastering						
Pillars at corners	4	8	32			
— do — at centre	2	4	8			
~~[illegible]~~			40	-	8½	340
Basement all round	1	46	46	-	1	46
Ends of steps	2	1	2	-	½	1
Top of do	1	3½	3½	1	-	3½
Carried over						390½

Plastering (continued) Brought forward						390½
Between pillars	1	26	26	7	"	26
Total plastering Square feet (2 coats)						416½
or Squares						4·16½

Flooring

Flooring with Square tiles on Concrete	1	9½	9½	7½	"	71¼
Total Square feet of flooring						71¼
or Squares						·71¼

Double matting

Space between pillars	1	22½	22½	"	6½	146¼
Door way	1	3½	3½	"	7	24½
Total double matting with 2 coat of tarring both side sq ft						170¾

Wood work

Bressummer	1	4⅓	4⅓	4"	6"	6 8/9
Hip rafters	4	10	40	3"	4"	3 1/3
Rafters	8	8	64			
Jack rafters	32	4	128			
			192	2½"	3½"	11 2/3
Collar pieces	3	6½	19½	2"	3"	13/16
Total cubic feet of teak wood wrought & put up						22 101/144

Roofing

Roofing with teak wood reapers, flat & pan tiles, chunam borders &c complete

Front and rear	2	8½	17			
Ends	2	6½	13			
			30	8¼	"	247½
Total square feet of roofing						247½
or Squares						2·47½

5th Circle

Dindigul Division | Palney Taluq

Abstract of Detailed Estimate No | of 1880/81

Head of Service. Local. | " year amount
Fund. Local fund. | Original Cost. "
Class. Original work. | Valuation "
Main Head. Buil. | Last repairs "
Sub Head. " | Estimate when and by whom called for } By Superintending Engineer on 17 March 1879
Section.

Name and Nature of work. Constructing a dead house at Palney.

Quantities	Description of work	Rate	Amount	Amount of Each part
8 4/27	Cubic yards of excavating foundation gravelly soil	" 2 "	1 0 4	
12 47/108	— do — Brick in chunam	4 " "	49 11 10	
4·16½	Squares of plastering with 2 coats	2 8 "	10 6 7	
·71¼	— do — of flooring with Square tiles 6 inches over concrete 4 inches thick	8 " "	5 11 2	
170¾	Square feet of double matting with 2 coats of tarring both sides including fitting charges &c complete	" 1 6	16 0 1	
22 101/144	Cubic feet of teak wood wrought and put up	3 8 "	79 7 3	
2·47½	Squares of roofing with teak wood reapers, nails, flat and pan tiles edges, ridges and chunam borders &c complete	21 " "	51 15 7	
	Carried over		214 4 10	

Brought forward	214	4	10
Sundries and Superintendence at about 7½ per cent	15	11	2
Total Estimate of Rupees	230		

I do hereby certify that the above Estimate for constructing a dead house at Palney amounting to Rs 230-0-0 two hundred and thirty only provides for everything necessary, and that no Supplementary works will afterwards be required.

Dindigul Dl office
1st April 1879

W. Sarrington
Dindigul divisional off

G. Manson
for Ag. Superintending Engineer 5th C.

En on Reg 12-5-79 No 1356 &

5th Circle
Dindigul Division
Palney Taluq
Head of Service Local
No. 2 of 1879/80
Madura District
Plan and Estimate
Estimate for constructing a dead house at Palney
Amount of Rs 230-...

Specification report to accompany Plan and Estimate for constructing a Dead house at Palney.

Amount of Estimate Rs 230-0-0

Foundation

1.- The trenches for foundations to be dug to the depth shown on the plan, the bottom to be as regular as possible.

Rough stone in mortar

2.- The foundation will consist of rough stone laid in mortar, the latter to consist of one of lime to one of river sand well mixed and ground together. Care should be that the mortar and sand used are altogether free from salt. The stones selected for the work to be of uniform and as rectangular as possible. When it is found impossible to prevent large spaces between the stones, they should be filled in by proper stone chips and chunam. Each stone course to be carefully finished to a uniform level in a substantial manner.

Brick in chunam

3.- Basement and superstructure will consist of brick laid in mortar, the latter to be prepared as described above. The bricks to be of government size and well burnt. The mortar joints not to exceed 1/4 in thickness. English bond to be observed throughout. The bricks to be dipped in water for a few ~~[illegible]~~ minutes before being used.

Plastering

4.- The plastering will consist of two coats, the first to be composed of 1 of lime & 1½ of river sand and the second of 1 of of lime to 1 of fine sifted river sand well mixed and ground together — care being taken that the water and sand used are altogether free from salt.

Asphalte flooring and concrete

The concrete to consist of 1 of brick [illegible], 1 of lime, ½ of gravel, and ½ of river sand, well mixed and beaten together to be laid in layers well beaten and rammed, and then a coat of asphalte ¾ thick to be laid.

Roofing

The roof will consist of well seasoned teak rafters, reepers, nails, flat and pan tiles, chunam bonds &c complete and the roof will rest on wall plates [illegible] on the plan. The rafters are to be [illegible] 1½ feet apart from centre to centre [illegible] reepers 6 inches apart — [illegible] [illegible] with the flat tiles & be [illegible] [illegible] [illegible] & [illegible] before being put up.

[illegible]

C. H. [illegible]

Ex. Engineer

Dindigul Division

[illegible]

Detailed Estimate No of 1878-79

District Madura Division Dindigul Taluq Palney

Work Constructing a dead house for the Civil Dispensary at Palney

		In feet			
Description of work	No	Length	Breadth	Height	Total
Foundation rough stone in chunam					
Front and rear walls	2	22	2½	2	220
End walls	2	11	2½	2	110
Screen wall	1	16	2	2	64
Total rough stone in chunam cft					394
or cubic yards					14 16/27
Basement brick in chunam					
Front and rear walls	2	21½	2	2	172
End walls	2	11½	2	2	92
Screen wall	1	16	1½	2	48
Pial in rear	1	6¾	2½	2	33¾
[illegible]	1	3	2	1¾	10½
as above	1	[illegible]	[illegible]	1½	[illegible]
Steps	1	6	3	1	18
Superstructure brick in chunam					
Front and rear walls	2	21	1½	14½	913½
End walls	2	12	1½	14½	522
Screen wall	1	16	1	3	48
Total brick in chunam cft					1861⅓

Deductions — half of the doors and windows &c have been deducted so that the other half left to cover the cost of the plastering work and centring.

Doors 6 inches in depth	1	5½	1½	4	33

carried over

Brought forward					33
Windows	3	5½	1½	1⅓	40¼
Ventilator	8	2½	1½	7/8	26¼
Cistern	1	dia 1·29	1½		2
Total deduction					10
Remaining brick in chimney c ft					176
or cub yard					65

Plastering with chimney 2 coats

In side	1	60	-	15	90
Out ,,	1	71	-	14	99
Drain wall both sides & top	1	16	-	7½	12
Basement	1	93	-	2	18
Pit	1	6¾	3	-	20
Inside of cistern	1	3¾	1½	-	6
Sink out side	1	7	-	3	21
do inside & top	1	7	-	1¼	8
do flooring	1	2	1½	-	3
Ends of step			-	⅓	
Total plastering sq ft					226

Deduct half for one side of room and [illegible] for [illegible] have been deducted the other half left to cover the cost of quoins

Door	1	5½	-	8	44
Windows	3	5	-	3	45
Ventilator	8	2½ dia	-	1½	30
Cistern	1	1¾			1¾
Sink	1	3	-	2	6
Total deduction					[illegible]
Remaining sq ft of plastering					2140
or squares					21½

Floor — asphalte flooring over concrete ½ inches thick

Room	1	18	12	-	216
deduct for sink	1	3	2		6
Remaining flooring sq ft					210
or squares					2·10

Wood work.

Wall plates	1	62	½	¼	7¾
Hip rafters in front	2	24	⅛	5/12	5 5/9
do do in rear	2	15½	⅛	5/12	4 5/12
~~do do do~~ ridge piece	1	6	5/12	½	1¼
Common rafters 1 ft apart	9	10½	¼	⅓	10⅛
do small in rear	9	10½	¼	⅓	7⅞
Jack rafters	16	6¾	¼	⅓	9
do small	16	5¼	¼	⅓	7
Braces	12	4½	¼	⅓	4½
Barge board	1	99	1/24	1	4⅛
Total wood work c ft					61 1/16

Roofing with teak wood ~~[illegible]~~ rafters pan-pot tiles, chimney, bevans & [illegible]

Front	1	17½	13½	-	236¼
Rear	1	15	10½	-	157½
Ends	2	9	10½	-	189
do	2	19¼	3	-	115½
Total roofing sq ft					698¼
or squares					6·98
Panelled doors glazed at top as shown in plan	1	5	-	2	1
do Windows glazed	3	5	-	3	3
do ventilators do	8	2½	-	1½	8
Weather board for windows	3				3

Abstract Estimate No of 1878-79

S. [illegible] Division Dindigul Taluq Palni

Work. Constructing a dead house for the Civil dispensary at Palni

Quantity	Particulars of work	Rate	Amount	Total
14 12/27 √	cyd of rough stone in chunam	3 - -	43 12 0 √	
66 8/27 √	do of Brick in chunam	4 8 -	298 5 4 √	
21 1/2 √	Sqrs of plastering with chunam 2 coats	2 8 -	53 12 0 √	
2.10 √	do of flooring with asphalte over 4" of concrete	15 - -	31 8 0	
61 1/16 √	cub. feet of teak wood wrought & put up	3 - -	183 3 2 √	
6.983 √	Sqrs of roofing with teak rafters pan & pot tiles chunam border &c complete	15 do	104 11 11 √	
1 √	No of panelled door glazed top, frames shutters bolts hinges &c complete each (8 x 5)	32 - -	32 - - √	
4 √	No of glazed windows frames shutters do do (5 x 3)	16 - -	64	
8 √	No of do ventilators do (2 x 2)	7 - -	56 - - √	
3 √	No of weather board for windows	6 - -	18	864 4 10 √
	Sundries including [illegible] foundation			25 11 2 √
	Superintendence			20 0 0 √
	Total estimate Rupees			910 0 0

W. Swaminathan for
District Engineer
1st May 1878
Dindigul Division office

[illegible]
Executive Engr. Dindigul Division

I do hereby certify that the above estimate for construct[illegible] a dead house at Palney for the use of Civil dispensary amounting to Rs 910 nine hundred and ten only [illegible] for everything necessary and that no supplementary work will afterwards be required.

[illegible]

~~[illegible]~~

[illegible] 3rd May 1878

Exe. Engr. Dindigul Division

~~Assistant Engineer~~

~~[illegible]~~

P.W.D. 1354 W
12-5-79

[illegible] 12-5-79 No 1354 W

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5. P. W. D.

No 1354 W

B & R
d works

Pro: of the Madras Govt.

Under date the 12th May 1879

Read the following

1354/15

Endorsement in the Financial Deptt. on letter from the Actg. Dt. Magistrate Madura No. 42 d/19th January 1879 } (Ke. No. 166 d/22nd Jany/79)

From the Supg. Engr. Fifth Circle } (— 235 — 12th April)
(— 42 M.D. — 27th —)

— do — do

Under the circumstances stated by the Supg. Engineer in the concluding portion of his letter No. 42 M.D. dated 27th April 1879, the Govt. are of opinion that the construction of the Dead house at the Palni Dispensary, should be deferred.

Hon W. Shuttleworth

D 12.5

Ind
2.5

S.E. Fifth Circle ✓

Financial Dept ✓ 3/7

Despd 21-5-79

Rd 9/6/79

Cir 5.5.79.

to Ordy 2-5.

Cws 3130 Va

Govt. of (1879) Madras.

PUBLIC WORKS.

14-5-

To

Dated

Issued

Recd. Entd.

G. O. 12 May 1879, No. 1354 W

Nos. 86-87-

Dead house at the Vel Dispensary. — The construction of the — to be deferred.

6