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MADRAS RECORD OFFICE

Government of Madras

Public Works

DEPARTMENT

G.O. No.	3134	Press
B.P. No.		Mis.
Dated	4 - 11	CR 76
		195

Not to be folded or roughly handled

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*Proceedings of the Madras Government, Public Works Department,
4th November 1874.*

No. 61. Read the following letter from G. S. SAGE, Esq., District Engineer, South Arcot, to Colonel G. W. WALKER, R.E., Chief Engineer, Public Works Department, dated Camp at Cuddalore, 23th September 1874, No. 138:—

I HAVE the honor to forward, herewith, papers as per margin for a Taluq Cutcherry with Jail, etc., complete, called

- 1 Plan of Cutcherry.*
- 1 Plan of out-buildings.*
- 1 Site Plan.*
- 1 Enlarged Plan of Treasury screen.*
- 1 Abstract Estimate.
- 1 Specification.

* By banghy.

for in G. O., No. 14, of 3rd October 1873.

2. In sending up this estimate I have included *all* out-buildings, and observe that an estimate for Rupees 3,360 was sanctioned for building a Subsidiary Jail and out-houses in G. O., No. 627, of 24th February 1870; but in Government Order, mentioned in paragraph 1 above, it was decided not to build on the then proposed site, but to change it and build these works in connection with a new Cutcherry, estimate for which is now submitted, including the out-houses; the small estimate for Rupees 3,360 will therefore require to be cancelled when present estimate is sanctioned.

3. On these out-buildings Rupees 686-6-8 were spent up to end of 1869-70; the work was stopped until 1873-74 when Rupees 2,500 was granted, and of which Rupees 2,496-11-9 were spent. In current year the grant applied for was not given, but Rupees 20, debitable to present estimate, have been spent in watching materials at site.

4. As shown in preceding paragraph, Rupees 3,203-2-5 have been spent up to end of August 1874, of which Rupees 933-3-0 only have been spent on work, and Rupees 2,264-15-5 for materials remaining at site.

5. Of this latter sum of Rupees 2,264-15-5 only Rupees 1,705-10-9 remain as value of material at site, the difference, Rupees 559-4-8, being composed as following:—

Loss on bricks and tiles sold	...	...	...	...	...	RS.	A.	P.
Do. chunam do.	...	...	...	...	...	5	3	10
50 Palmyrahs became rotten	...	...	...	...	...	1	11	6
300 Reepers do.	...	...	...	...	...	113		
	...	...	...	...	...	55	12	8
Value received for materials sold						Loss		
						176	4	0
						393	0	8
						559	4	8

6. The two items marked *, when I inspected these works in August last, were ordered to be sold, and some portion of their value will be recovered, though not much.

7. Regarding the new estimate, the plan and estimate for main building have been prepared in accordance with the last sanctioned standard design. Of the out-houses, the latrine for the public is in accordance with last standard plan; those for males and females are according to one or other of the Coimbatore plan; and were sanctioned in the small estimate alluded to above; the cook-room is according to the original plan altered to something like the last orders. The ryots' shed is like none of the sanctioned plans, as circular pillars have been built.

8. Of these out-buildings the male and female latrines are complete, except asphaltting and one or two trifling matters; also the cook-room, but the roof of this will have to be taken off, being roughly put up; the ryots' shed is complete except roof; the well has been sunk in the old fashion and has at present a capital supply of water, but I am doubtful whether it is deep enough in hot season.

9. If early sanction is given to this estimate I would suggest a transfer of Rupees 2,000 from each of the Court-houses proposed to be built at Virdachellum and Villapuram, for which estimates will be re-submitted in a few days, as this work (Cutcherry) has materials collected ready to go on with, and nothing has been done to the others.

MEMORANDUM.

From District Engineer, South Arcot, No. 138, of 28th September 1874, submitting Plans and Estimates for a Taluq Cutcherry and Subsidiary Jail, etc., at Kullacoorchy.

THE above-mentioned plans and estimates were called for by G. O. of the 3rd October 1873, No. 14. The site has been approved of by Government on the recommendation of the Collector.

2. Standard specifications and estimates of quantities for the Taluq Cutcheries, etc., have been circulated by the Government Orders marginally noted.

3. These specifications have not been adhered to by the District Engineer, and no reasons have been assigned for departing from them.

4. The proportion of broken brick or screened gravel, mentioned in the specification, is too great, and the mode of mixing cannot be approved of. The concrete should be made *before* it is laid in, and sufficient water should be added for the purpose. The addition of water while ramming is injurious, as it washes the lime from the upper layers.

5. *Brick-work*.—The class of bricks used should be stated. As the walls are to be pointed the brick-work should be of the best quality. The bricks of English size, and for face and arch work table-moulded and very thoroughly burnt. Moulded bricks are described in the standard specification. *Query*, is the rate in the present estimate sufficient for the class of brick-work required?

6. *Plastering*.—The District Engineer proposes to point the inside walls, but the standard specifications provide for plastering throughout.

7. *Pointing*.—The outside walls should be flat pointed and not tuck pointed, is quite insufficient. The pointing neatly drawn. The rate for pointing

8. *Flooring*.—No concrete under the tiling is specified in the standard. There is however no objection to the use of 4 inches of poor concrete, as described in the District Engineer's specification, over a layer of rubbish well rammed. For asphalt concrete is necessary.

9. *Cut-stone*.—The District Engineer provides for granite (gneiss) steps and curb-stone to verandah. Mortice holes should be specified in the latter for the verandah posts. But stone should be provided under trusses, and a cap stone to

the plinth round the main building, where there is no verandah. Again, no reason is assigned for omitting a stone pillar and cap and four stone arches in the porch.

10. *Lead flashing*.—Flashing should be provided for the roof where it abuts on the spiral and on the walls of the record-room.

11. *Painting in oil color*.—Standard specifications provide for painting with three coats all exterior and exposed wood-work. Wood oiling only is specified by District Engineer, and no painting for the gate.

12. *Tile drain*.—A drain of 9-inch tiles round the building is provided for by the Consulting Architect, but is omitted by the District Engineer.

13. Generally, the form of description used in the standard specifications and the precautionary provisions and description of details, considered worthy of note by the Consulting Architect to Government, have not been noticed or alluded to by the District Engineer. Perhaps this officer has not got all the papers, and if not, he should apply for them and bear them in mind while framing the estimate and constructing the building.

(Signed) A. DEC. SCOTT, Major, R.E.,
Under Secy. to Government.

14th October 1874.

No. 62.

ORDER THEREON, 4th November 1874, No. 3,134.

CIVIL WORKS, No. 6.

GENERAL approval and sanction are accorded to the design and estimate, forwarded by the District Engineer, South Arcot, for a Taluq Cutcherry and Subsidiary Jail at Kullacoorchy, but the attention of that officer will be drawn to the remarks of the Under Secretary to Government on his proposals, recorded in the accompanying memorandum.

2. The standard specifications which have been circulated with the designs of the Consulting Architect have not been as strictly adhered to, as is not only desirable, but necessary. Deviations therefrom can only be allowed when it can be shown that strict adherence to the details laid down would, from local causes, result in undue expenditure. In this, as in all cases, the District Engineer must be held responsible for the thorough examination and check in his office of all plans and estimates.

(True Extract.)

Colonel, R.E.,

Secretary to Government.

To the District Engineer, South Arcot.

Officiating Controller of Public Works Accounts, with Abstract Estimate.

Judicial Department.

Exd. S. T. Austin.

Spare Copies

Specification to accompany an Estimate for Constructing a Taluk Butchery with Subsidiary jail and out houses at Kullacoorchy in the Kullacoorchy Taluk of the South Arcot District.

1 Amount of Estimate Rupees 1764.0

description

2 The Estimate provides for constructing a Taluk Butchery with subsidiary jail containing a Court room of 34x18 ft., a private room of 11 1/2 x 10 ft., a Lost property room of 6x10 ft. a Post office of 18x10 ft with a Verandah of 6 1/2 ft. broad around, two clerks rooms one of 24x18 ft and the other of 11x18 ft with Verandah of 6 1/2 ft broad both in front and rear, two rooms one for Sheristadar and the other for Cashier each of 15x17 1/2 ft with a Verandah of 6 1/2 ft. broad in rear, a Hall for public of 15x12 ft., two rooms for the Inspectors and Police one of 18x8 ft. and the other of 18x7 1/2 ft., a covered way of 30x15 ft. and a subsidiary jail with 4 wards two of 16x15 ft. for men and two of 8x15 ft. for women also provides for constructing a Public Latrine of 6 seats a Male Latrine of 4 seats a Female Latrine of 2 seats a Pyots shed of 34 1/2 x 14 1/2 ft. supported on circular pillars and a Cop. room of 11 1/2 x 15 ft.

The additional room is added for Sub. Registrar vide S.O.

Main Building

Foundations

3 Foundations for the walls of 1 1/2 ft. thick will be 3 ft. deep of which 1-6" will be built in footings with a breadth of 3 ft. at bottom and 2 ft. at top and a layer of concrete of 1 ft. deep and 4 1/2 ft. broad for all walls of 1 1/2 ft. they will be of 3'-3" broad at bottom and 2'-3" at top and a layer of

when a later 4 feet

of concrete of 1 ft. deep and 5 ft. broad for walls of 1 1/2 ft. thick they will be of 2'-9" at bottom and 1'-9" at top on a layer of concrete of 1 ft. deep and 1'-3" broad. The remaining foundation of the walls will be built with the same breadth as the walls above. The retaining walls for the verandah will be 3 ft. deep below the surface of the ground of which 1'-6" will be built in footings with a breadth of 2'-8" at bottom and 1'-8" at top on a layer of concrete of 1 ft. deep and 1'-2" broad. The foundation for turret will be 11'-6" deep of this 1'-6" will be built in footings with a breadth of 10'-5 1/2" at bottom and 9'-5 1/2" at top on a layer of concrete of 1'-6" deep and 12 ft. square and the remaining 3 ft. will be in a block of 8'-11 1/2" square.

Basement for different walls will be the same breadth as the thickness of the walls above and will be built 2 ft. deep and all the outer walls from the footings of the foundation to the basement level as well as the retaining walls of the verandah will have a plinth or extra thickness outside of 4 inches.

All walls to the building (except the partition wall between the private room of the Sahibdar and Last property room which will be of 10" thick and the partition walls between Sheristadars and Cashiers rooms and between the Inspector and Police rooms which will be of 1'-3" thick and the longitudinal walls of Cashier and Sheristadars rooms which will be 1'-6" thick) will be 1'-6" thick. The walls of the Court house and clerks rooms will be 11'-9" high and those of the jail wards will be 13' high. The walls of the Cashier and Sheristadars rooms which are to be terraced will be 12 ft. high and the

making a total depth of 10 feet

Basement

Superstructure

Concrete

50 lb 3 of
brick aggregate
as much water
should be used
as will suffice
to make the concrete
into a thick paste
stop a bowl
partially filled
with water
the material
to be turned over
it washed the
top brick clean

And

the walls of the Record room will be 11'-6" high. The wall of the Turret will be 1'-3" thick and circular or octagonal faces and 26 ft. high. To be composed of 1 line 3/4 sand, 3/4 broken and 1/4 of broken brick or screened gravel, the whole will be mixed dry that is with only sufficient water to prevent lime being blown away and put down in courses of 7 1/2 inches and will be beaten down to 6" a small quantity of water to be put whilst beating, but directly water begins to stand on surface no more to be put or lime will be washed out.

The doors and windows will have flat arch work over them the arches are to be neatly turned and only selected hard bricks used joints to radiate correctly from the centre the bricks are to be ground down to the required shape and key bricks to be well driven home joints are not to exceed 1/4 of an inch in thickness. No special allowance is made in the estimate for this work but to cover the cost of this work only half the quantity of void is deducted.

Cornice Work

An ordinary plaster moulded cornice to interior

Dental Cornice will be provided for the inside walls of the Court room, blocks and Inspector and police room and for both inside and outside of the walls of Record room and the outside of the Turret.

Painting
exterior flat
painting and
interior plastered

The exterior of the walls will be thick pointed and the interior flush pointed. All joints are to be raked out to a depth of 1/2 inch and the surface to be well dressed before pointing.

Flooring

The concrete for this may be of the composition given in the D.E. Specification.

The basement to be filled in with earth well watered and rammed till thoroughly consolidated; over this a course of concrete of 6" thick to be laid and perfectly levelled and then quick square tiles to be laid in chumaw in diagonal courses and jammed in position the joints afterwards to be

be scraped out and pointed with strong lime
putty, joints not to exceed $\frac{1}{4}$ of an inch in width.
The square tiles before being laid should be
rubbed down to a smooth surface and glazed
to fit each other closely and neatly. The cells
are to be floored with asphalt $\frac{3}{4}$ inch thick
laid over a bed of 6" concrete and well level-
led and smoothed.

11 To be of flat and painted and
chunam borders and ridges carried on teak
trusses, purlins, rafters and rafter well nailed
down; Rafters are to be set 1 1/2 ft. from centre
to centre and rafter of 2" broad and $\frac{1}{2}$ inch thick
and 5 inches from centre to centre. Borders to
be 3 ft. apart and 6 inches broad. The terrace
roof for the Sheristadar and Cashier's rooms
will consist of brick on edge 3 inches brick
jelly in chunam 3 courses of flat tiles and 3
coats of plastering.

12 The edge of the verandah and
the steps will be covered with granite slabs.
13 Throughout to be of brick in
chunam the bricks are to be steeped in water
before being used and English bond to be
observed throughout.

14 The mortar is to be prepared
with 1 of lime to 1 1/2 of sand to be carefully mixed
and either ground in a mill or pounded with
sticks as may be most convenient.

15 All line to be staked on the
work in the presence of the Overseer.

16 All wood work to be of well
seasoned and sound teak free from all shakes
and knots and neatly finished off.

17 The building will be provided
with 2 1/3 panelled and 3/4 reinforced doors that

Roofing

Main Work

Masonry

Mortar

Line

Timber

Doors and Windows

is 5 for the Court house, 2 for the Private room,
1 for the Lost property room, 3 for the Post office,
6 for the Clerk's rooms, 2 for the Sheristadar's room
and 2 for the Inspectors room. The jail wards
will be provided with iron grated doors inside
and strong battened doors outside and iron
grated Ventilators. All the doors will be made
of well seasoned teak wood as per standard plan.
The Record room will be provided with iron
grated doors with glazed shutters as per stand-
ard plan. The Treasury room will be provided
with 2 iron grated doors the archways in the
walls of the Treasury room will also be closed
with iron bars. A space of 8 ft broad in the
Treasury room will be walled off for the Cashier
to hold his office within.

18 The doors and windows and the
wood work in the turret will be painted with
2 coats of wood oil.

19 The excavation for foundation
is to be taken to a depth of 4 ft at highest point
of site the bottom is to be taken out perfectly level
any superfluous excavation is to be filled in again
and well rammed.

20 The remarks for Main Building
apply to outhouses.

21 When work is finished the whole
compound to be properly cleaned up and all debris
removed and ground properly levelled.

District Engineer's office Sarsat
Camp Kundalaw 28 Sept. 1874

W. J. P.
District Engineer

D. P. W.
SOUTH ARCOT.

No. 138

DISTRICT ENGINEER'S OFFICE.

114
Camp *Chuddalore*
Dated *28th September 1874.*

From

The District Engineer,

To ^{South Arcot.}

The

Chief Engineer
D. P. W.

Enclosures *b.*

Sir,

1 Plan of Catchery

1 Plan of Out
buildings

1 Site Plan

1 Enlarged plan
of Treasury screen.

1 Abstract &c.
terminate

1 Specification

** By Bangley*

I have the honor to forward here-
with papers as per Margin for a Salary
with Jail &c. complete called
for m. l. C. N. 14 of 3 October 1873.
2. In sending up this Estimate I
have included all outbuildings and observe
that an Estimate for Rs. 3,360 was sanc-
tioned for building a Subsidiary Jail
and Out houses in l. C. N. 627 of 24th
February 1870. But in l. C. mentioned in
para 1 above it was decided not to build
on the then proposed site but to change
it and build there or Rs in connection
with a new Catchery. Estimate for which
is now submitted including the Out houses,
the small Estimate for Rs. 3,360 will
therefore require to be cancelled,
when

South Arcot District

S. M. 6/4/4

Specification Attached to

comparing an estimate for

building a Jail at Catchery

with subsidiary jail and out

houses at Chuddalore

28. 3. 1874

S. M. 6/4/4

Consent of Board to No. 176

when present Estimate is sanctioned.

3. On these outbuildings Rs 686-6-8 were spent up to end of 1869-70 - the work was stopped until 1873-74 when Rs 2500 was granted & of which Rs 2496-11-9 were spent. In current year the grant applied for was not given but Rs 20 debitable to present Estimate have been spent in watching materials at site.

4. As shown in preceding para Rs 3203-2-5 have been spent up to end of August 74 of which Rs 938-3-0 only have been spent on work & Rs 2266-15-5 for materials remaining at site.

5. Of this latter sum of Rs 2266-15-5 only Rs 1705-10-9 remain as value of material at site the difference Rs 559-4-8 being composed as following

Loss on Bricks & Tiles sold	Rupus 5-3-10
Do. Churnam	Do. 1-11-6
50 Palmyrals became rotten	" 113-8-0*
300 Neepers	Do. 55-12-8*
Loss	" 176-4-0
Value received for materials sold	" 383-0-8
	<u>559-4-8.</u>

6. The two items marked * when I inspected these works in August last were ordered to be sold & some portion of their value will be recovered though not much.

7. Regarding the new Estimate, the Plan & Estimate for main building have been prepared in ac-

design. Of the Out houses, the latrine for Public is in accordance with last standard plan, those for males and females are according to one or other of the Comibatore plan & were sanctioned in the small Estimate alluded to above, the Cook room is according to the original plan altered, to something like the last orders. The pyro shed is like none of the sanctioned plans, as circular pillars have been built.

8. Of these out buildings the Male & Female Latrines are complete except asphaltting & one or two trifling matters also the Cook Room, but the roof of this will have to be taken off being roughly put up, the Pyro shed is complete except roof, the well has been sunk in the old fashion & has at present a capital supply of water, but I am doubtful whether it is deep enough in hot season.

9. If early sanction is given to this Estimate I would suggest a transfer of Rs 2000 from each of the Court houses proposed to be built at Vidachellam & Villapuram for which Estimate will be submitted in a few days. as this work [Cutcherry] has materials collected, ready to go on with & nothing has been done to the others.

Remain with the secret. I have the honor to be in submitting these for your consideration. I am, Sir, Your Most Obedt Servt
G. S. M. F.
D. S. Engineer

Remain with the secret. I have the honor to be in submitting these for your consideration. I am, Sir, Your Most Obedt Servt
G. S. M. F.
D. S. Engineer

South Arcot District No. 3 Range Kullacoorchy Taluk
Civil Building 15⁺ Original Work

Abstract Estimate of 1876-75
Work — Constructing a Taluk Butcherry with subsidiary
 Jail and out houses at Kullacoorchy

Quantity in Number	Description of Work	Rate Amount Per	Amount	Total
<u>Main Building</u>				
175 $\frac{3}{4}$	Cub. yds. of concrete	2 $\frac{8}{10}$ - Cyd	395.7 -	
1007 $\frac{3}{4}$	Cub. ft. of brick in chumam	2 - C.ft	1259.1 6	
1195 $\frac{1}{2}$	Cub. ft. of — do — do	2 $\frac{1}{2}$ do	2219 3 4	
124-1 $\frac{1}{2}$	do — of cutstone	5 - do	132 8 6	
1231-0	do — of Teak wood wrought & put up	4 - do	1524 0 0	
379 $\frac{1}{2}$	Lbs of wrought iron in Trussing	2 6 lb.	59 4 9	
64	Sq. ft. of iron doors for Treasury	1 8 - sq. ft.	96 - -	
672	do — of iron doors & panel doors			
	Teak wood	1 4 - do	840 - -	
192	do — of iron doors for jail with Teak wood latten shutters	2 4 - do	1432 - -	
105	do — of windows with iron bar and glazed shutters for re- cord room	2 - do	210 - -	
60	do — of jail ventilators with iron bars	1 12 - do	105 - -	
64	do — of iron gratings to arch ways	1 - do	64 - -	
14270	Squares of painting with 2 coats of wood oil	2 8 - sq.	106 12 -	
9233	do — of such painting	1 4 - sq.	113 6 7	
13708	do — of Plush plastering	1 4 - do	171 5 7	
	has many coats — carried over		10730 1 3	
54316	do — of Plush plastering		117 1 10 18 20	

177 18 74
 SOUTH ARCOT D. P. W.
 From 177 18 74
 No. 6160

The District Engineer
 South Arcot

To
 The Chief Engineer
 Kullacoorchy

Dated 28th 3rd September 1874
 Despatched 29th 3rd September 1874
 Received 2nd 20th October 1874
 + 400 Rupees + 100 Rupees to estimate to be
 made 1874-75-23-11-74
 No. 1538
 Enclosures 4

Constructing for same —
 same estimate plans for
 for Constructing a Taluk
 Butcherry with subordi-
 nary Jail and out
 houses at Kullacoorchy

20-11-74
 1874-75-23-11-74

and to Oct 2 1914

Brought forward 10730 1 3

5.76 Squares of Terracing, with brick
on edge and 3 inches brick
jelly in chunam 3 courses flat
tiles and 3 coats of plastering - 22 - - sq. 126 11 6

97.76 do of roofing with flat and
pan tiles that wood reapers
walls and Chunam borders
and ridges - 20 - - do 1955 3 2

47.98 do of flooring with square
bricks with 3" concrete in
- underneath and pointed with
chunam - 8 4 - - do 395 13 4

7.32 do of flooring with asphalt
3" over a bed of concrete
3" thick well rammed - 25 - - do 183 - -

470 Running ft of Cornice Work - 2 - - Rfl 58 12 -

77 do of Zinc sheets
3/8" for fixing in the valleys
1 1/2 ft broad - 1 2 - - do 86 10 -

712 Cub yds of earthwork of exca
- rating foundations - 1 6 6 yds 66 12 -

1 Wrought iron finial for
Turret 1 in. dia - 25 - - each 25 - -

1 Iron gratings for the airy
room as per separate list

20 And plastering to remain - - - 160 - -

Sundries and Superintendence 10 - - amt 112 0 7 13900 -

Public Latrine

3 8/9 Cub yds of concrete 6" deep for floor 2 4 - - byd 8 12 -

636-7 Cub ft of brick in chunam - 2 - - bfl 79 9 2

2.68 Square of plastering with
one coat of chunam - 1 8 - - sq. 4 - 4 -

Carried Over 92 5 6 13900 -

Brought forward 92 5 6 13900 -

1 1/2 Sars of Whitewashing with 2
Coats of Lime - 3 - - sq. 17 -

15-9- Cub ft of seasoned wrought iron put up 14 - - cfl 63 - -

5.67 Squares of roofing with tarr
palmyrah complete and
reapers pan tiles and chun
- nam borders and ridge
for complete - 25 - - sq. 141 12 -

4.23 do of H. may comb Work
with tiles - 5 - - do 21 2 5

7.03 do of tarring with 2 coats
of coal tar - 1 8 - - do 10 8 9

1 Wooden lid over animal
cistern - 3 - - each 3 - -

2 Zinc Buckets for do - 5 - - do 10 - -

23 1/2 Cub yds of earthwork of ex
- cavating foundations - 1 6 yds 2 1 4 -

Sundries and Superintendence 10 - - amt 35 10 - 380 - -

Female Latrine

629 1/2 Cub ft of brick in chunam - 2 - - bfl 78 11 -

9.03 Squares of plastering with one
coat of chunam - 1 8 - - sq. 13 8 9

6.25 do of whitewashing with
2 Coats of Lime - 3 - - do 1 2 9 -

1.42 do of flooring with wall
bricks with 3" concrete
under and pointed with
chunam - 8 4 - - do 11 11 5

63 do of H. may comb work
with tiles - 5 - - do 3 2 5

1.30 do of asphaltting 3/4" thick 25 - - do 3 2 8 -

3.46 do of tarring with 2 coats of
Coal tar - 1 8 - - do 5 3 -

Carried Over 11,5 15 4 14280 -

Brought forward

145

2.89	Squares of roofing with tarred palm-leaf rafters reapers		
	frantiles and chunam borders and ridges	25	- sq. 72
12-10-1	Cub. ft. of Teakwood wrought and put up	1	- b. ft. 51 5
1 1/8	do of cut stone	- 5	- do - 5
6	Cub yds of excavating foundation	- 1	- b. c. ft. - 7
	Sundries & Superintendence	10	- - cent 270 8
			19 7

Male Latrine

6.53	Cub. ft. of Brick in chunam	- 2	- c. ft. 51 10
11.89	Squares of plastering with one coat of chunam	1	- 8 - sq. 17 13
6.40	do of whitewashing with 2 coats of lime	- 3	- do 1 3
1.45	do of Heavy comb Brick work in chunam	- 5	- do 7 4
1 13/27	Cub yds of concrete work under floor	- 2	- 4 - b. yd. 3 5
1.60	Squares of flooring with wall bricks in chunam	- 6	- - sq. 9 7
1.47	Squares of Asphalt 3/4" thick	- 25	- - do 36 12
7.47	do of tarring with 2 coats of coal tar	1	- 8 - do 11 3
4.94	do of roofing with tarred palm-leaf rafters reapers frantiles and chunam borders and ridges	25	- - do 123 5
21	Cub. ft. of Teakwood wrought and put up	1	- - b. ft. 8 1
1 1/2	do of cut stone	- 5	- do 1 6
9	Cub yds of earthwork of excavating foundation	- 1	- b. c. ft. - 13
	Sundries and Superintendence	10	- - cent 378 8
	Carried over		31 7

Brought forward

14980

Roofs Shed

1227 1/2	Cub. ft. of Brick in chunam	- 2	- b. ft. 153 7
1.10	Squares of Heavy comb tile work	5	- - sq. 5 8
8	Circular pillars 1 1/2 ft. diameter 7 1/2 ft. high	3	- 8 - cent 28
32-4-6	Cub. ft. of Teakwood wrought and put up	1	- - b. ft. 129 8
10.92	Squares of roofing with tarred palm-leaf rafters reapers frantiles and chunam borders and ridges	25	- - sq. 273
10	do of Plastering with one coat of chunam	1	- 8 - do 15
10	do of Whitewashing with 2 coats of lime	- 3	- do 1 14
13 1/3	Cub yds of concrete under flooring	2	- 4 - b. yd. 30
7.20	Squares of flooring with square bricks and painted with lime putty	6	- - sq. 43 3 2
21 1/9	Cub yds of earthwork of excavating foundation	- 1	- b. c. ft. 2 5 4
			681 13 6
	Sundries & Superintendence	10	- - cent 58 2 6
			740

Cook Room

5.62	Cub. ft. of Brick in chunam	- 2	- b. ft. 107 12
9.62	Squares of Plastering with one coat of chunam	1	- 8 - sq. 14 6 10
9.62	do of whitewashing with 2 coats of chunam	- 3	- do 1 12 10
8-5-1	Cub. ft. of Teakwood wrought and put up	4	- - b. ft. 33 10 8
2.21	Squares of flooring with square Bricks and pointed with chunam	6	- - sq. 13 1 2
3 3/7	Cub yds. of concrete under flooring	2	- 4 - b. yd. 8 9 4
	Carried Over		179 7 10 15720

Brought forward _____ 179 7 10 15720

486 Squares of roofing with tarred
palm-leaf couple ropes
pawls and chumam borders

and ridges _____ 25 - - sq. 121 8 -

9 Cub yds of earthwork of excavating
foundation _____ 1 6 6yd - 13 6

301 13 4

Sundries & Superintendence 10 - - out 28 2 8 330

Well of 7 ft diameter

758 Cub ft of Brick in chumam _____ 2 - 6ft 94 12 -

2 Squares of Plastering with 2
coats of chumam _____ 2 8 - sq. 5 - -

620 Cub yds of Excavation _____ 3 6 6yd 135 10 -

524 do of filling in _____ 1 3 do 110 15 -

276 5 -

Sundries and Superintendence 10 - - out 23 11 - 300

Gate

86 Cub ft of Brick in chumam _____ 2 - 6ft 10 12 -

9-6-1 do of Stick wood in
including iron work and
pointing _____ 5 - - do 47 8 7

94 Squares of pointing _____ 1 4 - sq. 1 2 9

1 22/27 Cub yds of Earthwork _____ 1 6 6yd - 2 9

59 10 1

Sundries & Superintendence 10 - - out 5 5 11

Compound Wall of 10 ft length

834 Cubic feet of Brick in
chumam _____ 2 - 6ft 10 7 6

110 Squares of Pointing _____ 1 4 - sq. 1 6 -

1 2/3 Cub yds of earthwork _____ 1 6 6yd - 2 6

For a length of 10 ft _____ 12 - -

For 138 1/2 ft _____ 1657 12 10

Brought forward _____ 1657 12 10 16415

Sundries and Superintendence 10 - - out 62 3 2 1720 - -

For even figures _____ 5 - -

Total amount of Estimate Rupees - 18140 - -

District Engin. Office & Arch.
Camp Cuddalore 28 Sept. 1871.

W. L. S.
District Engineer

From District Engineer South Arcot no 138 of 28th September 1874 Submitting plans and estimates for a Talook Cutchery and subsidiary jail etc at Kullacoorchy.

Memorandum. 14th October 1874.

1 The above mentioned Plans and estimates were called for by G.O. of the 3rd October 1873 no 111. The site has been approved of by Government on the recommendation of the Collector.

2 Standard specifications and estimates of quantities for the Talook Cutchery etc have been circulated by the Government orders marginally noted.

3. These specifications have not been adhered to by the District Engineer, South Arcot, in the present instance and no reasons have been assigned for departing from them.

no 2906 dated 16th Nov 1871
 " 120A " 11th May 1872
 " 1014 " 20th April 1874
 " 1366 " 22nd May 1874

South Arcot District

Chief Clerk

722

S. M. 6162/74

Heck - Construction of
 Talook Cutchery and
 subsidiary jail and
 houses at Kullacoorchy

G.O. 3134-4-11-74
 S. M. 6161
 Estimated Estimate No 1764

4

The proportion of broken brick or screened gravel ^{mentioned in the specification} is too great and the mode of mixing cannot be approved of. The concrete should be made before it is laid in and sufficient water should be added for the purpose. The addition of water while ramming is injurious as it washes the lime from the upper layers.

Brick work

5 The class of bricks used should be stated. As the walls are to be pointed the brick work should be of the best quality. The bricks of English size and for face and arch work table moulded and very thoroughly burnt. Moulded bricks are described in the standard specification. Query? is the rate in the present estimate sufficient for the class of brick work required.

Plastering

6. The District Engineer

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proposes to point the inside walls but the standard specifications provide for plastering throughout.

Pointing

7. The outside walls should be flat pointed and not ~~flush~~ ^{flush} pointed. ^{as} vice standard specifications. The pointing neatly drawn. The rate for pointing is quite insufficient.

Flooring

8. No concrete under the tiling is specified in the standard. There is however no objection to the use of four inches of poor concrete as described in the District Engineer's specification over a layer of rubbish well rammed.

For asphaltic concrete is necessary.

Cut Stone

9. The District Engineer provides for granite (gneiss) steps and curb stone to veranda. Mortar holes should be specified in the latter for

the veranda posts. But stone should be provided under trusses and a cap stone to the Plinth round the main building where there is no veranda. Again no reason is assigned for omitting a stone Pillar and Cap and four stone arches in the porch.

Lead flashing.

10. Flashing should be provided for the roof where it abuts on the spiral and on the walls of the record room.

Painting in oil color ()

11 Standard specifications provide for painting with 3 coats all exterior and exposed wood work. Wood oiling only is specified by District Engineer and no painting for the gate.

Tile drain

12. A drain of 9" tiles round the building is provided for by the Consulting Architect

Architect but is omitted by the District Engineer.
13. Generally the form of description used in the Standard Specifications and the precautions -
- any provisions and descriptions of details considered worthy of note by the Consulting Architect to Govt have not been noticed or alluded to by the District Engineer. Perhaps this office has not got all the papers. And if not he should apply for them and bear them in mind while framing the estimate and constructing the building.

Adm. Secy
Major Rb.
Under Secy to Govt.

P.W. Dept

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Proceedings of the Madras Government.
Read the following.

on
The Dy. Engr. South Arcot (H. E. No. 138 of 28th Sept/74)
3134

General approval
and sanction are ac-
-corded to the design
and estimate, forward-
-ed by the District
Engineer, South Arcot for
a Talook Cutcherry and
Subsidiary Jail at
Kullacoorchy but the
attention of that officer
will be drawn to the
Remarks of the Under
Secretary to Government
on his proposals, recorded
in the accompanying

MP
21/10

Memorandum -

2 The standard specifications which have been circulated with the designs of the Consulting Architect have not been as strictly adhered to; as is not only desirable, but necessary. Deviations therefrom can only be allowed when it can be shown that strict adherence to the details laid down would, from local causes, result in undue expenditure. In this, as in all cases, the District Engineer must be held responsible for the thorough examination and check in his office of all plans

And estimates -

317 Adel

[Signature]

H. S. Arch ✓
Cousin with Ab. Lohr ✓
J. G. Leeper ✓

S. Capins desptd 11/11/74.
 To all ^{Eng} Engineers & Excising S. Arcat.
 Genl. Engr. Wynaad
 S. Capins desptd to all 14/11/74.

6100

Govt. of 1874 Madras.
PUBLIC WORKS.

To

The Dy. Supt.
S. Arcot

Dated

Recd.

Encl.

5

G. O. D. No. 3134

Vol. 61-62.

Look Cutcherry &
Subsidary Jail at
Pullacoorchy, South
West District. The design
estimate for the Cutcherry
& Subsidary Jail ap-
proved and sanctioned;
the attention of the Dy. Supt.
drawn to the re-
marks of the Under Secy
G.O.

Recd 21/10/74 Ptd 22/10/74