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TAMIL NADU ARCHIVES

GOVERNMENT OF TAMIL NADU

P.V. DEPARTMENT

G.O. No.	2573. W.	Press.
B.P. No.		Mis.
Dated	Jan. 6. 1878	197.

Not to be folded or roughly handled

2573
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GOVERNMENT OF MADRAS
PUBLIC WORKS DEPARTMENT.

20th June 1878, No. 2,573 W.

Buildings and Roads.
Civil Works

Read the following papers —

No 206 From H UNWIN, Esq., District Engineer, Cuddapah, to the Chief Engineer, Buildings and Roads, dated Cuddapah, 8th May 1878, No. 321

I HAVE the honor to submit a revised estimate, with its enclosures, as per margin, amounting to Rupees 33,070, for completing the new Taluq Cutcherry and Sub-sidiary Jail at Kadri, and to state that in G O, No 2,674, dated 1st November 1873, an estimate for Rupees 24,200 was sanctioned for this building

One estimate	
" comparative statement.	
" plan	
" specification.	

2 It will be observed from the comparative statement that a sum of Rs 8,870 is now required in excess of the original estimate, and that the excess is due partly to insufficient rates, but chiefly to work not provided for in the original estimate.

3 The progress on this work is continued, as the Madanapally Range Officer arranged to procure carpenters from Madras and bricklayers from Bangalore in order to complete the building. The revised estimate has received the countersignature of the Collector

4 Your early sanction and return of the estimate is solicited

No 206-A From the same Officer, dated Cuddapah, 27th May 1878, No 461.

In continuation of my letter, No. 321, dated 8th instant, I have the honor to ask your sanction to authorize the Examiner of Public Works Accounts to admit Rupees 11,033-11-5 expended during 1877-78 on the new Taluq Cutcherry at Kadri in excess over appropriation, viz, Rupees 2,000.

2. The excess outlay was incurred by the Madanapally Range Officer pending submission of a revised estimate, with a view to retain the services of the carpenters and bricklayers which had been brought from Madras and Bangalore at no small expense.

3 The revised estimate was submitted to you on the 8th instant, and the work is in progress pending your sanction.

No. 206-B. From the same Officer, dated Cuddapah, 12th June 1878, No 606.

Your memorandum, No 235, dated 29th May 1878

In reply to the above I have the honor to state that the original estimate was prepared in 1873, when Mr. Sage was Executive Engineer and Mr. O Ratigan Range Officer.

2 The excess due to the insufficiency of rates is small, and, as said in my former letter, it is chiefly due to alterations.

The details are as follows —

Original estimate	Rs
Revised do	22,400
Cost of alterations to verandahs	25,000
Difference	2,600
Excess due to insufficient rates	1,872
	783

3 The alterations were—

- Addition of verandahs
- Tiled roof instead of Bengal
- Flat arches and lintels in stone instead of brick arches

4 The enclosed letter (to be returned) from Range Officer gives the most reliable information that can be obtained in reference to the alterations, it is a pity that formal sanction was not obtained, but it is pretty clear in each case that it would have been accorded.

5 The increased strength of the compound wall from 1,132 feet to 1,776 feet is admitted to be an improvement, but Mr Schoury (who built it) was unable to say who ordered it

6 The extra quantity of teak-wood is explained by the Range Officer, and also the reason is given for an application for Rupees 2,000 only towards completing the building

7 The out-offices have been built according to standard plans, and the total cost, including the compound wall, amounts to Rupees 8,010, of which Rupees 1,800 was sanctioned for the wall

8. The following is a complete summary of the proposed expenditure —

Original estimate	Rs
Alterations, &c	22,400
Out offices	2,600
	8,010
Total	33,070

which is the amount of the revised estimate submitted, to which sanction is now requested.

From J TRAILL, Esq., C.E., Assistant Engineer, Madanapally Range, to the District Engineer, Cuddapah, dated Madanapally, 6th June 1878, No 329.

With reference to your endorsement, No 513, dated 1st instant, on a letter from Chief Engineer, I have the honor to state that the original sanctioned estimate was, I believe, prepared by Mr Sage, the District Engineer. The items were forwarded to this range, for the rates to be filled in, during the time that Mr O'Ratigan was in charge

2 The excess over the original sanctioned estimate due to the alterations is Rs 1,872-4-0, as per the following details —

Concrete	Rs	A.	P.
Foundation and basement	107	0	0
Pointing	569	7	8
Wood-work	0	15	4
Excavation	475	0	0
Coping verandah	32	8	0
Roofing	414	7	0
	120	13	6
	133	8	0
Total	1,872	4	0

3 I can find no sanction for most of the alterations among the records of this office, with the exception of the substitution of tiled roofing for Bengal terrace, they were all made before I took charge of the range. This alteration decreases instead of increases the cost. A revised plan and estimate for Taluq Cutcheries were forwarded to this office for information and guidance, and as this allowed for tiled roofing, and the roofing had not been finished on the old plan of Bengal terrace, I made this substitution. It was distinctly ordered in the case of the Madanapally Cutcherry in District Engineer's No 2,601, dated 19th March 1876. The District Engineer referred to Chief Engineer's memorandum, No 120, dated 19th January 1876, as his authority, and I considered this sufficient authority for a similar alteration in the case of the Kadu Cutcherry

4 I have looked up all the old correspondence to try and ascertain how the substitution of stone lintels came to be made for flat arch-work, and I find a Circular No 26, dated 7th July 1874, from District Engineer, calling for a report on the respective prices of arches, thick lintels, and thin lintels with flat arches. I do not send a copy, as you will find it in your office. My predecessor replied sending copies of letters from Sub-Divisional Officer and Taluq Overseer with his No 963, dated 31st August 1874. In a subsequent letter from my predecessor (Mr. Montserrat) to his Sub-Divisional Officer (Mr. Schoury), the former states that "District Engineer has given me verbal orders to place flat arches of stone instead of brick in all the cutcheries." I regret that I am unable to ascertain more about this matter from the office records, but Mr Schoury, who was in charge of the building at the time, or, perhaps, Mr Lazarus (now in Sidhout), may be able to supply more information

5 With regard to the alterations to the compound wall, I have also endeavored without success to ascertain who ordered the extra length. Mr Schoury, in whose time it was built, and to whom I wrote on the subject, is equally ignorant. Mr Lazarus, the late Overseer, might know something about it. The present Sub-Collector, Mr Atkinson, gives me permission to state that even now in his opinion the compound is too small. The alteration in design is made in accordance with G.O., No 1,014, dated 20th April 1874, forwarded to this office for information and guidance. As the wall has been built nearly to the full height, it may, I think, be allowed to remain

6 With regard to the item teak-wood, there is an excess of 223 cubic feet. This is partly due to the fact that respers were not included in the sanctioned estimate under the head of wood-work, but were noted along with other items in the Data List under the heading "Roofing of wood-work." The roof of the building contains 84 squares, and allowing 1½ cubic feet per square, it comes to 126 cubic feet excess for the roof. The remainder is the excess due to the addition of verandahs

7 The verandahs were added before I took charge of the range. The authority seems to have been contained in G.O., No 795, dated 23rd March 1874, forwarded to this office for guidance. Also, Government, in sanctioning a similar cutcherry for Madanapally, added the following remarks — "Sanctioned, subject to modification after providing for verandahs as recently approved, &c"

8 Although Rupees 4,327 are still required to complete the building, only Rupees 2,000 have been applied for at present, as it is not expected that more can be spent. Labor is very difficult to procure in Kadu Taluq

No 207 ORDER THEREON, 20th June 1878, No 2,573 W.

UNDER the explanations afforded, His Grace the Governor in Council sanctions the revised estimate, amounting to Rupees 33,070, for the Taluq Cutcherry and Sub-sidiary Jail at Kadu, the original estimate for which was sanctioned in G.O., No 2,674, dated 1st November 1873, and amounted to Rupees 24,200.

2 Of the excess of Rupees 8,870, a small sum only, viz. Rupees 783, is due to enhanced rates, the balance being attributable to alterations and additions found to be necessary during the progress of the work.

3 It appears from the District Engineer's letter of the 27th May that a sum of Rupees 2,034 was spent on the building in excess of the appropriation for 1877-78.

4 The reason assigned is that it was desirable to retain the services of carpenters and bricklayers who had been specially imported for the work. His Grace the Governor in Council does not consider this a satisfactory explanation, and desires that the officer concerned may be called on to report why he did not in the first instance apply for sanction to the excess expenditure, and for an appropriation of funds. The amount must now appear in the accounts as an unauthorised excess pending orders on the explanation called for.

2523
3

4 PUBLIC WORKS DEPARTMENT, 20th JUNE 1873. No 2,573 W

5 The total expenditure up to the end of the last official year has amounted to Rupees 25,743, and Rupees 2,000 are applied for during the current year. This sum is appropriated from the Provincial Reserve.

6 The sanction accorded in paragraph 1 of these Proceedings has been registered as Provincial No 42 B of 1878-79

(True Extract)

(Signed) E. A. FOORD, Colonel, R.E.,
Secretary to Govt, P.W.D.

(True Copy)

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

To the District Engineer Cuddayah
" Examiner of Public Works Accounts
" Financial Department.

Ed A F Goodall.
Spare Copies



UNITED STATES
NAVY
OFFICE OF THE SECRETARY
WASHINGTON, D. C.

NAVY DEPARTMENT
WASHINGTON, D. C.

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NAVY DEPARTMENT

2
NAVY DEPARTMENT, and Secretary J.
for the "U.S. Navy" (1973) (1973)
— Station 17511000000

July 1875 No. 1014 20th April 1874

Detail of work

Sanctioned Estt.			Revised Estt.			More than sanctioned		
Quantity	Rate	Amount	Quantity	Rate	Amount	Quantity	Rate	Amount

Main Building																		
Concrete in chumam	146 7/8	3	428	1	9	182 1/2	3	2	571	2	11	353 8/9	133	1	2	The excess is owing to the addition of Verandah & a little excess over the original sanctioned rate.		
Burnt stone in chumam & hammer dressed for Superstructure and foundation Rough	907 5/8	13	4367	9	11	484	2	11	484	2	11	484	353	2	11	do do do for hammer dressed work burnt stone not being available within the distance stated in the original estimate. $\frac{873}{2}$		
Foundation																		
Superstructure																		
Semicircular arch work Brick in chumam	18 3/4	5	3	93	6	11	5	3	33	4	10	11	31	4	10	The excess is owing to 11 3/4 Cys having been built with 5 tone in chumam as good bricks were not available and a little excess rate for brick work is owing to the omission of carriage.		
Flat archwork brick in chumam	16 3/4	5	11	91	-	-	-	-	-	-	-	-	-	16 3/4	5	11	91	Instead of this stone & tone lintels are used.
Heavy Cornice work with Brick in chumam and 2 Coats of Plaster	88 6/8	31	8	27	11	6	-	-	-	-	-	-	-	88	31	8	27	This item has been expunged from the revised estimate.
Stone Cutters dressed over doors &c Complete	-	-	-	46 3/4	8	12	402	8	46 3/4	-	-	-	402	8	-	-	-	The excess is owing to the item not being provided for in the original estimate.
Roofing slabs along along edges of Verandah & angle lintels &c dressed & under beams dressed	56 3/8	1	8	553	9	406	2	812	-	-	-	-	56 3/8	1	8	553	-	The excess over sanctioned rate is owing to the difficulty of procuring the stone cutters, certain items having been including in the above sub head there has been a decrease in quantity. Rs 41-8-0 is the saving ^{the saving} .
Stone slabs for tread of steps	118 2/8	2	23	-	24 1/4	1	15	523	2	118 2/8	-	-	236	2	-	-	-	The excess is due to the increase of number of steps according to the revised plan.
Flushing with stone slabs 1/2 size & chisel dressed 3" thick laid over Concrete	39 35/8	11	-	432	13	7	57	801	15	39 35/8	-	-	369	2	3	-	-	The excess is due to the addition of Verandah, the low rate as Rs 9-4 were allowed per Cys of Concrete in the sanctioned date by an oversight. The original rate Rs 14 for 100 slabs being insufficient, it has been increased to Rs 20.
Flushing with Asphaltic Cement position	7 2 1/2	17	-	122	5	5	720	19	136	12	9	-	44	6	14	-	-	The excess is on account of increased rate of Concrete there being a difference in Composition.
Plastering with 2 Coats of Chumam (interior)	120 39/8	5	5	705	1	118	5	867	8	120 39/8	-	-	-	221 6/8	-	-	38	The excess is owing to certain item such as record room, archway &c being omitted in the original estimate.
Chumam (interior)	-	-	-	756	3	11	-	-	876	4	6	-	1589	7	-	-	198	

Brought forward:		7367 3.11	8760 4.6	15897	19816.5	
Whitemashing 2 coats of chumam 1268 ft. 4	21 11 2			1268	31 11 2	This work is not necessary as long as plasterings are allowed
Painting with chumam (exterior) 25316 ft. 8	127 5 5 4 2 1 8	142 2 4 4 1 8		127 5 5		The increase is due to addition of Verandah & a little excess owing to certain items such as record room & being omitted in the original estimate
Teakwood wrought & put up 12052 ft. 12	5158 4.6	4234 4 14	7425 2 8 226 7.4	1266 12 8		Lanterned, route and being insufficient
Terracing brick on edge 3" jelly						
3 Courses of flat tiles and 3 coats of plaster in and outside	6016 20	180 4 10 6 0 10 28	169 2 6		11 4 4	Lanterned rate is high and therefore decreased
Bengal terrace with 3 Courses of flat tiles & 3 coats of plaster	8466 2	1777 13 9		8466	1777 13 9	This item has been expunged from the revised estimate
Teakwood sleepers (2 1/2")						
Tile roofing 2 Courses of plain tiles						
& 1 Course of flat tiles & chumam borders per Complete		7833 10 5	1039 2 3 98 58 6	1039 2 3		This item has been substituted for Bengal terrace
Iron hinges for all trusses with Screws, nuts, washers, Straps & ornamental Iron work	1120 20	220	1194 20	220		
Large board & fumeal to Public room	120 25	20	120	40	120	
Teakwood doors 3/4 panelled & 2/3 Venetian (4' x 8')	240 25	1020	2190 25	1155	800 55	165
Door with iron bars — do — do		140 75	75	120	73	
Doors with iron bars semi-circular tops & frames per Complete in 28' (fixed)		270 10	150	250 75	150	
Door with iron bars frames per Complete in 28' (fixed)		140 75	75	140	73	

Brought forward	181927	206951
Painting to all doors, Windows, Vents		
Lators, suspended, pieces, Struts, Lateral		60
Frames inward for Complete		
Wood siding to all exposed timbers	150	150
Wooden Board over Ironing tower		
Comprising 8 Vention shutters from		
for with wooden Cap Complete as per	670	450
Estimate attached		
Iron Coroll	100	60
Metal Gutter flashing at Spiral	10381	10
Metal flashing over Clock tower	20915	80
Scaffolding	570	570
Value of Ground	60	150
Store for a house to be used as		
an Office during the erection	370	200
of Building		
Excavating foundation	62677	150
Road all round the Building		57
From back		30
Measure Vault to Building and stairs	250	
Total	2039947	2278511
Sundries & Superintendence @ 10 per Cent	200015	227851
Total Estimate Rupees	22400	25060

469086	218738
Allowed wood siding in the sanctioned estimate	
but allowed painting Vide G.O. No. 1366 of 22 nd	
May 1874 & G.O. No. 1986 of 13 th July 1875-	
95 ³ / ₈	
Rate increased to provide for putting up-	
Not necessary-	
Increased Vide G.O. No. 1986 of 13 th July 1875-	
do do	
The amount entered in revised Estimate is actual sum	
paid, the former sum being only probable.	
The excess is owing to the addition of 1/2 of amount	
Omitted in the sanctioned estimate	
do do	
This is not necessary according to the revised design-	
49831	259738
49615	222124
5480	2820

riding 1/2 mile, but houses, toll & Campbaid wall 1/2 in
 and with the 1/2 - 1/2 232 - 1/2 232. April 1872, J. O. no 1986 2/104.

the less than the
 estimate sanctioned Estt.

Remarks

253
 9

Amount Quantity Rate Amount

Brought forward	2779	25060
Out Houses		
Pyato Shed		1420
Crook beam		673
Public latrine		1478
Mail latrine		930
Well		
<u>Total</u>	<u>727</u>	<u>33310</u>
Compounded wall	22400	
Excavation	2779	13 11 11 20 5 3 24 38
Quarries & stone in Clay both for F.S. 1/2 1/2 2 9 12 12		
Quarries & stone in Clay for Foundation		165 9 3 4 538 11 165 9 3 4
do dressed do for structure		30 1/2 3 4 1202 15 7 310 1/2 3 11
Quarries & stone in Chumam for Pillars & Caps & 5 21 9 1/2 5 5 25		
Looking to top of wall consisting of 3' 5' 11 22 1/2 2 8 37 11 21 3 210 6 1		
Stones for Concrete		
Pointing with Chumam	13 53 1 3 140 13 1853 1 8 177 12 9	
Circular stone posts for gateway	2 70 2 11 2 70 2 11	
including holes for hooks		
Leahwood wrought put up & delivered	4 37 14 12 20 3 7	
Complete		
Brought down in hooks, hinges, bolts, 10 12 10		
Leahwood Gate & Complete		85 1 70
Painting with 2 coats of Coal Tar	90 1/2 1 5 7 50 1 8 1 5 7	
Remaining rock from foundation		3 3 4
Earthwork (Embankment)		109 13 3 1585 3/4 3
do Cutting		327 3 61 5 327 3
Labour at entrance to Compounded wall		120 50 194
Landries & Superintendence	16 25 1 25 09 14 9	
Total Proposed Compounded	174 14 12 250 1 3	
Grand Total	1800 2760 33070 51 9 1/2	

5280	2820
1450	Never estimated before
673	do do
1478	do do
930	do do
727	do do
10730	2820
2779	The sanctioned rate being insufficient
176 9 2 9 12 12	This sort of stones are not used.
538 11	The cause of excess rate over the sanctioned one is owing to the great part of the Campbaid wall having been built with large stones, regular in shape & shape.
1202 15 7	do do
3 7	The sanctioned rate being insufficient
23 6	The sanctioned rate being insufficient
36 15 9	do do
4 37 14 12 20 3 7	Not required
109 12 10	To be supplied in lieu of previous two items
85	
109 13 3	Omitted in the sanctioned estimate
61 5	do do
50	do do
238 7 3	
201 8 9	
2340	1880
13070	4200

Approved & certified

District Engineer

Comparative statement for
Constructing a new Selay Culch
Subsidiary well, Out & Houses,
Well, Compound wall
in Madras Palay Mandam
Range and Kapaah Dis

Comparison to accompany the Estimate for
constructing a new Selay Culch building
and houses with compound wall &c. &c. in
accordance with the G.O. No. 232 of 13th Feb 1872, Sec. 12
13th of May 1874 & G.O. No. 1014 of 20th April 1874.
Madras Palay Range Madras Palay Selay Culch building
1st amount of Estimate. Rs. 36070 ✓
Selay building amounting to Rs. 28820 ✓
Buck's Well Rs. 1400 ✓
Cook room Rs. 650 ✓
Public Latrine Rs. 727 ✓
Sail Latrine Rs. 800 ✓
Well Rs. 727 ✓
Compound wall Rs. 3683 ✓
Grand Total Rs. 37200 ✓

Remarks 1. Examine the trenches & the full depths shown in the
Estimate or as much depths as the officer in charge
of the work may direct.

Remarks 2. After the trenches have been opened up for the
building to the full depths recommended on the plan
in charge of the work and to the minimum thickness
of 12 feet, the concrete should be placed in
two rows and be made in two layers of each which
should be thicker to be increasing in all twelve inches
of concrete, compared as follows, 6 feet in broken
stone & 6 feet in river sand and one of lime. Lay
also a course of coarse material 3 inches in thickness
over the filling in under floor for the reception of water

Slabs to rooms and corridors as per Estimate meet the
first layer to a line and laid out in same manner
and finish off with ordinary flat wooden boards.
3 Foundations to walls as per Estimate to be built. Foundation
of about Stone in Chumam and will be on the following
dimensions viz. Foundations to walls to be 2' 6" wide
and 3 1/2 feet deep. The retaining walls to be 2' 6" wide
and 3 1/2 feet deep and 3 1/2 feet deep.
4 When the foundations have been constructed in Basement
of building 2 feet broad and 2 feet deep
the retaining walls of the Basement to be 2 feet broad
and 2 feet deep to be built of burnt hammer dressed
Stone in Chumam.
5 Construct all walls above Basement of light stone
as per Estimate, one and one half feet broad
and to the height shown on plan and Estimate. The
walls of the stairs & Corridor rooms will be 1 1/2
feet thick. The whole of the masonry to be of burnt
Stone in mortar hammer dressed, the outside
and some the face inside and neatly and well
bonded.
6 Construct Circular arches of about 3' 6" in
Chumam over and one half feet in depth one wall
strong and in two in width & 2 feet in height.
7 Construct Semi-circular arches of about 3' 6" in
in masonry one and one half feet in depth
small openings between front house and kitchen
between kitchen and Corridor room and
between Corridor room and Kitchen room.

Deposition made 38 After the roofing and pipes have been completed
make good all defects in masonry by the
erection of other works and fill all put logs holes.
Masonry to be cured 9 The whole of the masonry to be cured and ham-
mer dressed on face and beds and to be laid in a neat
and workman like manner.
Paving of floor 10 Take out the joints of all exterior masonry work
to the depth of 1/2 inches well wash the surface
and point with flush pointing. The mortar to be
burned to the color of the stone. The interior will be
plainly plastered with 2 coats of Chumam.
Flooring with 18" 11 The flooring to be of Stone slabs 18" x 18" x 3/4" each
square ground to slabs.
The slabs to be fairly dressed and squared, close
jointed and to be neatly pointed with Chumam.
Asphalte flooring 12 Asphalte floor of subsidiary fail above
for fail works
Concrete with a coat of asphalte composition 3/4
thick finished off smooth on surface.
Pucca Terrace 13 Floor the record room with Pucca terrace flooring
flooring
and over joints as allowed for in the Estimate and
flagged with stone slabs 3" thick and well wash
the surface and point the same with Chumam.
Flooring with 18" 14 Roof the whole building except record room with
of 18" tiles and
2" courses of battles
flat and battles and Chumam borders consisting of
rafters, rafters and 1 course of flat tiles and 2 courses
of battles. The rafters to be two inches broad and one
half inch in thickness finish off the whole of the
roof neatly and in the usual manner. 50

Slab 15 Where the spiral ends make the second room and where flashing
the low ridge about the walls of second room. Provide
and fix lead flashing nine inches broad framed in masonry
three fourths inch and neatly beaten.

Stone Mason.

16 Provide and lay on even beds, Stone under all trusses, Stone under
dress all beds two lines generally.

17 Provide and provide stone steps on required places steps
as shown in the plan; and dress the same neatly two
lines and fix in Churnam masonry.

18 Work a spiral staircase of the form & dimensions Spiral
shown on the drawings.

19 Over all openings from doors will be laid a neatly Stone Lintel
dressed stone lintel resting at least 1/2 foot at each end
on the walls and should be 1 1/2 feet in breadth
and not less than 6 inches in thickness.

20 Provide, dress and fix stone slabs to the sills of Stone slabs
all doors and openings, to the edge of covered way
and verandahs, and all doors of the dimensions given
in the Estimate. Dress smooth all upper faces
of slabs in openings and all other portions with
one line.

Iron Hanger.

Provide and fix with screws specified hereafter
6 Iron gankings to subsidiary part of the form
and dimensions shown on the drawings and in Estimate.

Iron gankings

Iron - handwork Provide and fix seven iron barred windows in second
room of the form and dimensions shown on the drawings
also fix five circular barred windows 2 feet in diameter
for the same position of the building.

Iron doors. Provide and fix in fair wood 6 Iron doors of the form
and dimensions shown on the drawings, Provide one
strong Padlock for each door.

Iron barred windows. Provide and fix in fair wood 6 Iron barred windows
of the form and dimensions shown on the drawings.

Doors with iron bars for treasury. Provide and fix 2 Iron barred door for treasury
4x8 also fix 2 Iron barred doors with semicircular
top and frame & complete is treasury according
to the dimensions given in Estimate.

Iron Rivets Supply to Carpenter eleven Iron Rivets of the form
and dimensions shown on the drawings; Rivet end
to have Octagonal head and 3 inches by one eighth
inch washers. Upper end nine inches and
double nuts and washers.

Straps Supply to Carpenter two Straps for each truss
formed of one and a half inches by three eighths inch
Iron forged to half inch screw at ends - bearing plates
one and three fourths by half inch with nuts and washers.

Spinal Provide and fix a wrought Iron spinal to
spine of turret of the form and dimensions shown
on the drawings. Take particular care to render the
overlays water tight and putty all crevices before
painting.

Spikes, nails, screws &c. Supply to Carpenter - all masonry Spikes, nails,
screws and bolts.

Bolts - Supply for each half door, one upper, one lower
and one cross bolt also two hinges of Scantlings.

and workman ship approved of by the officer in charge.

the work

Provide and fix iron straps with rivets on each side for the
Girdling of the form and dimensions Shown on

the drawings

Provide each door with 1 Iron rim lock complete. Iron rim lock
9 in length of workman ship approved of by the
officer in charge of the work.

Carpenter

Provide frame and fix all timbers of the dimensions Shown
and frame Shown on the drawings and on the Estimate
The heels of rafters will be let into the tie beams and
strapped down tight and the heads allowed to butt
simply. Over the heads a chock hollowed out, so as to
cover the joints, will be fixed on, and fastened by
its butt end. The struts will butt simply against
the tie beam and be held in their places by round
pieces of wood. The upper end will be let into rafters.
The timbers are laid in, put on the ridge over the king
rod and draw the second nail down tight. Nail
the purlins, pole plates, and rafters as Shown on the
drawings. Support the purlins over the walls in centre
and between timbers.

Let the rafters into the purlins but on no account. Rafter to be not to
cut the purlins themselves, let every rafter project
3 feet beyond the outer edge of pole plate over wall,
bring each rafter up against the ridge and splice
it so. Draw on the drawings. Supply and fix
in position all rafters as provided for in the
Estimate. Beams &c. Provide and fix in position

position all beams, Brusses, joists, Ridge pole,
purlins and posts as enumerated in the Estimate
and of the Scantlings Shown thereon.

13

Doors & windows Provide frame and fix all necessary door and window
frames and of the several Scantlings Shown on the
drawings.

Pannelled & Venetian
doors Provide and fix doors one third pannelled and
two third venetian with hinges bolts and locks
complete of the dimensions Shown on the drawings.

Glazed shutters Provide frame and fix seven glazed shutters with
circular heads of the dimensions Shown on the drawings
and in Estimate.

Circular Window Provide frame and fix five circular windows of the
dimensions given in the Estimate.

Turret roof Cover the turret with a wooden head above the masonry,
comprising frame, eight venetian windows com-
plete, with wooden caps above as Shown in the
drawings secure the head to masonry by iron
rods as Shown on the drawings and finish off
the whole in a neat workman like manner. Take
particular care so as to frame the whole of the
covering strongly and to make it water tight.

Workman ship and
materials The wood will be best, well seasoned and free
from knots and other defects, clean and wrought
and finished with European tools. All markings
nicks and joints of every description, will be care-
fully cut and executed in a clean and workman

workman like manner. The iron will be of the best quality, clean, wrought, and welded rod, with an approved cap, all bolts will be provided with washers twice the diameter of nut or head.

The stone used will be good burnt granite laid in courses, not exceeding six inches in height.

The mortar will be composed of 1 part of Roman lime to two parts of clean sharp sand, well pounded and mixed fresh before using. The white wash will have a proportion of blue impied for coloring. The canvas will consist of six parts of broken stone two of sand and one of lime, well mixed and thrown in a semicircular shape.

On receiving an order in writing from the Officer in Charge of the work, fill in the sides of the completed masonry in layers of not greater thickness than twelve inches materials of a fine, well water and ram with a pound break each layer until the whole is brought to the level of ground.

Fill in the upper three courses, leaving in layers of six inches and immediately render in three inches of concrete in a semicircular shape.

For all basing scaffolding will consist of approved

See drawing

iron rods and on. Put in up right, brace with pieces of the same material and ~~rough~~ ^{smooth} inside with rope.

14

~~General Completion~~ On completion it will clear away all rubbish which may have accumulated during the progress of the work and all implements machinery and materials used during its construction. Remove stains of white wash or lime from wood work and render effective all door furniture and fastening and deliver the work up in a good neat and workman like manner.

Pyrote shed

Excavation After the work has been marked out by the officer in Charge of the work, excavate the foundation to the full depth and breadth shown in the Estimate.

Concrete After the trenches have been opened out to the full depth determined on by the officer in Charge of the work & to the uniform breadth of 3 1/2 feet, well water and ram in two layers of 18" & 18" in all but one inches of concrete composed as follows - 6 parts of broken stone, 2 parts sharp river sand, and one of lime.

Foundation Foundation of outer walls to be 2 1/2 feet in breadth and 3 feet in depth. Repair all round the building 1 1/4 feet in breadth and 1/4 feet in depth, 8 feet in front and rear - 1 1/4 feet in breadth and 1/2 foot in depth to be built with Burnt Stone in Churn.

See

Basement throughout will be $1\frac{1}{2}$ feet in bread. $6\frac{1}{2}$ feet in length and the sides 1 foot in bread. $6\frac{1}{2}$ feet in depth to be built of Hammerhead cement stone in Chisum.

Will be built of burnt hammer-dressed stone in Chunan Superstructure.
The pillars will be 12 in diameter each $12 \times 12 \times 6 \frac{1}{2}$
in height. The space between the ends of pillars is
shown in plan will be joining about 2 or 2 1/2 ft
in thickness and 2 1/2 feet in diameter. This will give a
greater height - 2 1/2 feet will be lower corner of,
level of cracks, according to plan and estimate.
In addition

Shaver will be composed 2 or 3 pieces - as all are one piece of bone, well mixed together - and amount or broken together with sticks shot with it.

to be built at bridge, set in motion, the water to be
brought in with less resistance to rising water.

the nothing to be accomplished - a bird's nest, a nest of nothing

the two flat wood barrels. The latter will be used with
the smaller iron barrel.

Two considerable iron nails of large and with six other
beams as shown in B.

seems as shown in drawing at 20. There will be

and to the President in 20, with the
 President's wife and children
 between the others will be
 the

...the neighbors will be much surprised to
know safe and comfortable in
the neighborhood.

... cage and on the ...
... to be ...
... will be ...

will be mailed to - all no action taken -
will be done - only

will be dressed in lavender and white.

Setting
6
The 12' x 12' o' Square, after being pitched in with wash
will be laid over a pier floor in length 12' x 12' will
be sound and well shaped and of the ¹²/₁₂ in
thickness (12) Panels will be laid over a set of
masonry 3' 4" in thickness of in length and 1/2" in
width with 5' overlap. There will be of regular
stone, bound and well covered.

Chinaman borders - use - tide at low water about intervals of $4\frac{1}{2}$ feet Chinaman borders will be laid then will be 8' broad and 2" deep and will be right whether 4 or 6 per day appear being laid.

richer. It is soft and holds well in mortar as for
siding, there will be no stone and lie on a bed of
concrete 6 in thickness.

Flooring The flooring under the granite stone stairs consisted of concrete 3" thick closely-jointed and joints were pointed.

to bring to hand on (Place on the points of all inferior and of lesser
and of lesser
masonry — work to the depth of $1\frac{1}{2}$ inches well across
the surface and finish with punch pointing. The machine
is to be composed of $\frac{1}{2}$ in. of fine and 2 parts of coarse
well mixed together and rounded with sticks. Work
with iron.

Book, process

Explanation: After the work was well marked out by the officers in charge of the work, we laid the foundation to the full

is delicate and needs the given in estimate.

Foundation
 - Foundation is built all round the building to be 2 feet
 in breadth and 3 feet in depth and the steps 1 1/2 feet
 in breadth and 1/4 feet in depth to be built of burnt
 stone in Chunnam.

Basement
 - Basement is built all round the building to be 1 1/4 feet in
 breadth and 1 1/2 feet in depth and the steps 1 1/2 feet in
 breadth and 1/4 feet in depth to be built with hammer dressed
 stone in Chunnam.

Superstructure
 - This is built of hammer dressed stone in Chunnam.
 The walls throughout will be 1 1/4 feet in breadth and
 9 feet in height exclusive of gates which is 1 1/4 feet
 in breadth and 2 1/2 feet in height.
 The mortar will consist of 2 or 3 parts of sand
 and one of lime well mixed together and ground
 or powdered with small stones with iron.

Roofing
 - Take out the joints of all interior and exterior
 masonry work to the depth of 1/2 inches well wash
 the surface and joints with slush pointing. The
 mortar to be composed of 1 part of lime and 3 parts
 of sand well mixed together and powdered with iron
 and with iron.

Flooring
 - The flooring will be of granite stone 3 or 4 inches thick
 on a bed of concrete 3 inches thick closely fitted and
 joints neatly pointed.

Roofing
 - The roof is to be composed of teakwood canals
 and rafters 1/2 inch and 1 inch. Cough with
 is bed with two malleable iron nails at edge

ridge and with two other beams as shown in drawing
 at 20 These will be tied to Braces with nails
 and properly secured, the rafters will be neatly wrought
 on lower ridge and on both sides, the outer ends of
 rafters to be neatly wrought. Rafters will be nailed
 to rafters with 1 1/2 inch rafter nails, trusses will be dressed
 on lower side and both edges.

Plating
 - That tiles 6 inches square after being steeled in whitewash
 will be laid over rafters closely pointed, they will
 be good and well shaped and of an uniform thick-
 ness (1/2) Pan tiles will be laid over a bed of
 mortar 3 inches in thickness 9 inches in length and 4 1/2 inches
 breadth with 5 inches over-lap. There will be of
 regular shape, sound and well burnt.

Chunnam borders
 - Over ridge at eaves and at equal intervals of 4 1/2
 feet Chunnam borders will be laid they will be 8 inches
 and 2 inches deep and will be kept wet for a few
 days after being laid.

Steps
 - The steps will be 6 feet in length and 1 foot in
 breadth 6 inches above & 6 inches below level of ground will
 be dressed 1 course neatly and workman like
 manner.

Materials
 - Teak wood will have to be brought from Madras
 Burnt stone rough for foundation from quarries
 at a distance of 2 miles & Burnt stone for Super-
 structure and flooring will have to be brought
 from a distance of 3 miles Chunnam from 8 miles and
 from a distance of 1 1/2 miles tiles from 1 mile. &c

Public Latrine

After the work has been marked and the officer in Charge of the work, excavate the foundation to the required depth and breadth given in Estimate.

Foundation to retaining walls to be $1\frac{1}{2}$ feet in breadth and $1\frac{1}{2}$ feet in height and the pillars 2, 4 feet in diameter and 3 feet in depth to be built with burnt stone in Channam.

Basement to retaining walls and pillars to be $1\frac{1}{2}$ feet in breadth and 3 feet in depth to be built with burnt hammer dressed stone in Channam. Still retained of hammer dressed stone in Channam. Superstructure and the dimensions of pillars $1\frac{1}{2}$ feet square & 8 feet in height as given in Estimate.

Bricks in Channam to say common work will be used in Honey Comb work spaces between pillars from level of top of foundation to wall plates. The honey comb work will be placed with outer face of pillars and will be of such the openings will be 4" high and 6" wide. The bricks will be hard sound and wrought into shape before being built. The outer lower edge of 2nd course will be level with upper inner edge of 1st course and so on maintaining this level throughout. The joints of honey comb work after being raised up will be pointed with lime mortar.

The wall will be of rough lime on 6 courses. These will be composed of 5 broken stone & Channam and 1 burnt. There will be 6 courses in composition.

and properly tamped over that asphaltum will be laid on properly tamped & mixed with sand 1 to 3 and afterwards added with 1 part of oil. The surface is glazed.

Plastering. Plastering the superstructure 2 coats of Channam will be composed of 2 of sand and 1 of lime to be neatly in work.

Plombing. Plombing the joints is the depth of $1\frac{1}{2}$ inches well wash the surface and joint with plaster pointing. The mortar to be composed of 1 part of lime and 2 parts of sand well mixed together and jointed with sticks stuck with iron.

Roofing. The roofing to be composed of 2 inch wood baulks and rafters 6 inch and 8 inch. Baulks will be fixed with two malleable iron nails a ridge and with two collar beams as shown in drawing. There will be fixed to the baulks with 4 inch nails and properly secured the rafters will be neatly wrought on lower ridge and on in the sides the ends of rafters to be neatly wrought. The rafters will be nailed to baulks with $1\frac{1}{2}$ inch nails, rafters will be dressed on lower side and both edges.

Ceiling. A flat 6 inch square after being started in which wash will be laid over rafters closely jointed, they will be sound and well shaped and of uniform thickness ($\frac{1}{2}$). Emulsion will be laid over a bed of mortar ($\frac{3}{4}$) in thickness of 1 inch and $\frac{1}{2}$ inch mean breadth with 5 courses.

These will be regular shape, solid and well burnt
 After the work is done ridge or leaves and a small interval of 1/2 ft. Cinnam
 Change of the m... feet, Cinnam borders will in sand they will be 8' high
 depth and is... and 2" deep and will be left until for a few
 Foundation to... days after being laid.
 and 1/2 feet in... 1/2 ft. over, fine Buckets, Tensured well have bacteria
 and 3 feet in d... to be brought from Madras burnt stone for foundation
 Cinnam... will have to be brought from a distance of 2 miles
 Basement to... stone for sub-structure and retaining wall
 feet in breadth... to be brought from a distance of 3 miles Cinnam
 with burnt s... from 8 miles and 1/2 mile
 still be used of... and the division

Joel Patrine

After the work has been marked out in the city - Excavate
 in charge of the work, excavate the foundation to
 the full depth and breadth given in Estimate.
 Foundation to retaining walls 1 1/2 feet high and
 1 1/2 feet in breadth walls 1 3/4 breadth & 3 feet high
 Pillars to be 2 1/4 feet in breadth and 3 feet high
 to be built with burnt stone in Cinnam
 10' basement to be 1 1/2 feet in breadth and 2 feet
 in depth is a retaining wall - pillars 10' high
 walls 1 foot in breadth and 1 1/2 feet in depth to
 be built with burnt stone in Cinnam
 Cinnam
 The superstructure will be built with hammer
 and the stone will be
 dressed stone in Cinnam 1 1/2 feet in breadth

and 8 1/2 feet in height, foundation will be 1 foot in breadth
 4 1/2 feet in height. 253
 combwork Brick in Cinnam concrete work will be built in spaces
 between pillars from ends of top of foundations to wall round
 plates. The concrete work will be flush with the outer face
 of pillars and will be 1 inch thick the openings will be 4" high
 and 6" wide. The bricks will be well soaked and wrought
 into shape before being used. The outer lower edge of 2nd
 course will be level with upper inner edge of first course
 and so on running this way throughout. The joints of concrete
 work after being mixed out will be packed with lime putty
 and will be of asphaltic and concrete there will be composed
 of 5 parts of stone & Cinnam 1 part sand. There will be thoroughly
 incorporated and properly rammed. Over that asphaltic
 will be laid on properly melted & mixed with sand to 3
 and afterwards rubbed with muck and finge oil till
 surface is glazed.
 Plastering. Plastering to sub-structure & walls of Cinnam to be composed
 of 1 part of lime to 1 part of sand to be neatly finished off.
 Pointing. Plaster out to points to the depth of 1 1/2 inches will be
 the surface and joint with flush pointing, the mortar
 to be composed of 1 part of lime and 2 parts of sand well
 mixed together and pointed with stone that will run.
 Roofing. The roofing will be of iron plates and rafters
 to be 10' apart. Rafters 10' apart respectively. Rafters will
 be tied with 2 malleable iron nails at ridge and with
 two collar beams as shown in drawing 1220. These will
 be tied to Braces with 1/2" nails and properly secured.

The well is to be excavated in a circular form as near as
 the nature of the material will allow. The diameter
 not to be less than 6' nor to exceed 8'. The depth will
 be 50 feet unless a good subsoil is reached, in which case a
 corresponding reduction to be made in the estimate.
 The top of the well will be built a wall, the
 inner diameter of which will be 9' as shown on
 plan & section. The depth below surface of ground
 will be 6 feet, and above ground 3 feet. The part
 above ground will be 3 feet in height & 1 1/2' in thickness
 the upper 6" being dressed as shown in section, the 2
 feet below ground it will be 2' in thickness, the lower
 2 feet being 2' 6" & 3 feet respectively. The openings will
 be on the outer face.

There will be an outer wall forming a
 retaining wall to the pit from the space between
 the two walls will be 3 1/2 feet. The thickness of the
 retaining wall will be 1 foot & depth 1 1/2 feet. The upper
 6' will be of dressed stone and will have a gravel
 4" in depth & 3 feet in depth (circular at bottom)
 cut into it to catch all drainage water.

The estimate is made for excavating a well of 8' dia.
 in diameter to a depth of 50 feet, through various
 strata. The construction of the well is as follows:
 1. The top of the well is to be built a wall, the
 inner diameter of which will be 9' as shown on
 plan & section. The depth below surface of ground
 will be 6 feet, and above ground 3 feet. The part
 above ground will be 3 feet in height & 1 1/2' in thickness
 the upper 6" being dressed as shown in section, the 2
 feet below ground it will be 2' in thickness, the lower
 2 feet being 2' 6" & 3 feet respectively. The openings will
 be on the outer face.

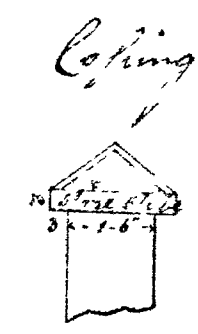
The well is to be excavated in a circular form as near as
 the nature of the material will allow. The diameter
 not to be less than 6' nor to exceed 8'. The depth will
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 strata. The construction of the well is as follows:
 1. The top of the well is to be built a wall, the
 inner diameter of which will be 9' as shown on
 plan & section. The depth below surface of ground
 will be 6 feet, and above ground 3 feet. The part
 above ground will be 3 feet in height & 1 1/2' in thickness
 the upper 6" being dressed as shown in section, the 2
 feet below ground it will be 2' in thickness, the lower
 2 feet being 2' 6" & 3 feet respectively. The openings will
 be on the outer face.

Between the transfer wall & the inner wall will be laid concrete
 a bed of concrete 1/2 in depth, with a thin layer
 of sand 1/2 in from the inner wall.
 Over the concrete will be laid a layer of planking 3/4 in
 thick 3 in breadth & cut as shown on plan. The
 to show their joints should radiate from the center
 of the well.
 Inside the well of concrete it is to be built with
 stones each 3x1 1/2 ft. in size. The stones are to be
 laid in a regular pattern, on a bed of sand & lime
 wood beams 6" x 4" as shown on plan. The stones
 each side being spiked together at their ends, and
 then will be placed a grating with chains in
 between, the chains being 1/2 x 2 1/2 in. and 1/2
 each other & spiked down on the beams. The
 plus materials, (Pulverized concrete) is to be used in
 and to run into the concrete. The
 whole space round the well being left clear of
 all debris
 all materials obtained from the same is to be used
 for the Cutchery. The foundation is to be built
 in small quantities in the center.
 compound wall.
 The wall has been raised a little higher in the center
 change of the wall of concrete the foundation to the
 wall depth and breadth shown in plan. The
 the walls throughout will be 7 1/2 in breadth
 and 1 1/2 in depth & the pillars 12 in breadth
 and 3 in depth.

in breadth and 3 in depth to be built with burnt
 clay
 stone in the same manner.
 The walls throughout will be 7 1/2 in breadth and
 1 1/2 in depth and the pillars 12 in breadth
 and 3 in depth and to be built with
 burnt stone in the same manner.
 The walls throughout will be 7 1/2 in breadth and
 1 1/2 in depth to be built with burnt stone in the same
 manner. The pillars 12 in breadth and 3 in depth to be
 built with burnt stone in the same manner.
 The coping will be built according to the revised
 standard design for the wall of a Cutchery.
 A gate of teak wood 12' wide will be
 placed in the wall. The gate to pass through
 the wall and to be screwed up tight. All other items
 omitted in the Specification must be constructed
 according to the Estimate.
 Sd/- Rangoon
 21st March 1878
 Assistant Engineer



Approved by
 D. D. D.
 District Engineer
 Apr 27 1878

The affairs in charge
Madanpally Rangoo
Jr.

Es ist ein Engländer
Ludwappale.

Cont 2, $\frac{1}{2}$
 Sept 22 } March 1878.
 Oct - }

Specification to accom-
pany the Estimate for
Constructing New Soap
Cutcherry, Drain Building
and Houses, Compound
wall &c at Kadavai
according to the
No 232.

[illegible]

2nd will. 2nd or 3rd of the 1st in }
 6th in the 1st or 2nd of the 1st in } off 5th 4th 536 5th 5th ✓
 - 1st or 2nd of the 1st in }

'63 the 1st. "wages" were paid for the 1st time in
the 1st half of the year. } the " 26, 25, 76 ✓

1. Some mention brought down from the
 list, 20. Some name, the complete _____ } each 50 " 50 " ✓

1000 of 12 and under copper wires — lbs 3. 1 1/4 "

Page 613 10¹¹ S

Andrusonia infundibuliformis @ 10 percent 66 51

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1. *Amurath. Scapellato*
 2. *Amurath. Scapellato*

1941

General Sir [unclear]

Alfred Lewis
~~_____~~ D. C.
District Engineer

The officer in charge
Madras & Cuddalore
The District Engineer
Cuddalore

Dated 21st
March 1878
Mad

Respect and at the same time
Estimate for construction
a wooden cap or shed
over drawing room
for New Jail Catching
at New Jail Cuddalore
Cuddalore

Buildings & Roads No 321 District Engineer's Office
Cuddalore 8th May 1878.

To
The District Engineer
of Cuddalore

From
The Chief Engineer
Buildings and Roads Branch
Madras

Sir
Enclosed

I have the honor to submit
a revised Estimate with its enclosures
as per margin amounting to Rs 33,070
for completing the New Jail, Cuddalore
and Subsidiary Jail at Madurai and to

State that in G.O. No 2674, dated 1st
November 1873, an Estimate for Rs
21,200 was sanctioned for this building.

It will be observed from the
Comparative statement that a sum of
Rs 8870 is now required in excess of the
original Estimate and that the
excess is due partly to insufficient

rates but chiefly to work not provided
for in the original Estimate.

B. The progress on this work is
continued as the Madanpally King
Officer arranged to procure carpenters
from Madras and Bricklayers from
Bengalore in order to complete the
building. The revised Estimate has
received the countersignature of the Collector.

4. Your early sanction and return of
the Estimate is solicited.

I have the honor to be

Very
Your most obedient Servant

Danand Venkiah.

District Engineer

ampd
[Signature]

9873
94

No. 232 of 23rd April 72.
 L.C. 2767 - 14th Dec 72
 - 2674 - 14 Nov 73

Buildings & Roads

Sir,

The District Engineer
 of Cuddalore.

The Chief Engineer
 Buildings and Roads
 Madras

Dated 8th May 1873
 Recd

No 321
 Enclosures 1
 Madras
Madras new Jail
Cutcherry and Sub-
Judicial Jail.

Submits for sanction
 revised Estimate of Rs.
 amounting to Rs 3307 0
 for completing

No 329

Madras
 6th Dec 1873

From The Officer in Charge
 Madras Jail Range.

To The District Engineer
 Cuddalore.

Sir, With reference to your order
 No. 513 dated 1st Dec 72 on a letter
 from Chief Engineer, I have the honor to
 state that the original sanctioned
 estimate was, I believe, prepared by
 Mr. Sage the District Engineer. The
 items were forwarded to this Range
 for the rates to be filled in, during the
 time that Mr. C. Patigan was in charge.

2. To excess over the original
 sanctioned estimate due to the
 alterations in Prices 1872-4-0 as
 per the following details.

Concrete	107-0-0	Excavation	32-8-6
Foundation & Rev.	8587-7-8	Copying & Printing	44-0-0
Roofing	0-15-4	Flooring	139-12-6
Wood Work	175-0-0	Roofing	133-8-0
Carried over	1152-7-0		1872-4-0

L. 30423-5-78
 L. 30423-5-78

3. I can find no sanction for most of the alterations, among the records of this office, with the exception of the substitution of tiled roofing for Bengal Terrace, they were all made before I took charge of the Range, this alteration decreases instead of increases the cost.

A revised plan and estimate for Talup Lutcheries was forwarded to this office for information and guidance and as this allowed for tiled roofing and the roofing had not been finished on the old plan of Bengal Terrace, I made this substitution. It was distinctly ordered in the case of the Madanpally Lutchery in District Engineer's No 2601 dated 19th March 1876. The District Engineer referred to Chief Engineer's Memo No 120 dated 19th January 1876 as his authority and I considered this sufficient authority for a similar

alteration in the case of the Talup cut. Ching.

4. I have looked up all the old cases. I find no sanction to try and ascertain how the substitution of stone lintels came to be made for flat arch work and I find a circular No 26 dated 7th July 1871 from District Engineer calling for a report on the respective prices of arches, thick lintels and thin lintels with flat arches. I do not send a copy as you will find it in your office. My predecessor replied sending copies of letters from Sub. Officer and Talup ameer. with his No 963 dated 31st August 1871. In a subsequent letter from my predecessor (Mr. Dumberratt) to his Sub. Officer (Mr. Schomberg) the former states that "District Engineer has given me

verbal orders to place flat arches of stone instead of brick in all the cutcheries.

I regret that I am unable to ascertain more about this matter from the office records but Mr. Schomay who was in charge of the building at the time, or perhaps Mr. Lazarus (now in England) may be able to supply more information.

5. With regard to the alterations of the compound wall, I have also inquired without success to ascertain who ordered the extra length. Mr. Schomay in whose time it was built and to whom I wrote on the subject is equally ignorant. Mr. Lazarus the late surveyor might know something about it. The ^{present} ~~late~~ collector Mr. Atkinson gives me permission to state that even now in his opinion the compound is too small. The alterations in design is made in

2nd hat

accordance with G.O. No. 20²³ dated 20th April 1874 forwarded to this office for information and guidance. As the wall has been built nearly to the full height it may I think be allowed to remain.

6. With regard to the item that wood, there is an excess of 223 cft. This is partly due to the fact that repairs were not included in the sanctioned estimate under the head of wood work but were noted along with other items in the State List under the heading Roofing with "Bungal Terrace". The roof of the building contained 84 squares and allowing 1 1/2 cft per square it comes to 126 cft excess for the roof. The remainder is the excess due to the addition of Terandahs.

7. The Terandahs were added

before I took charge of the Range. The
authority seems to have been contained
in G.O. No 995 dated 23rd March 1874,
forwarded to this office for guidance.
The Government in sanctioning a
similar entchery for Madanapally
added the following remarks
Sanctioned "Subject to modification
after providing for Teranah as
recently approved &c."

S. Although P. No 4327 is
still required to complete the building,
only P. No 2000 have been applied for
at present as it is not expected that
more can be spared. Labor is very difficult
to procure in Madanapally Taluk.

I have the honor to be
Sir,
Yours faithfully,
C. S.

Assistant District Officer

9573
98

Buildings & Roads

District Engineer's Office

No 461 Buddapah D/2/ May 1878
25/5

From The District Engineer
of Buddapah

To The Chief Engineer
Buildings & Road Branch
Madras

For

In continuation of my letter No 331
dated 8th inst, I have the honor to
ask your sanction to authorize the drawing
of P.W. Accounts to amount Rs 2033-11-5 expen-
-ed during 1877-78 on the New Telang
Cutcherry at Calang in excess over
appropriation vizt Rs 2000.

2 The excess outlay was incurred by the
Madanapally Range officer pending
submission of a revised estimate with
a view to retain the services of the Car-
-penters and bricklayers which had
been brought from Madras and Bunge-
-lon at no small expense.

3 The revised estimate was submitted

No 329

For

The Officer in charge

Madanapally Range.

For

The District Engineer

Buddapah

No 65
3 Aug. 1878.

The Dy. District Engineer
at Madras. Please be
assured for the excess
over original estimate
Buddapah is
to be satisfactory.

to you on the 8th inst and the work
is in progress pending your sanction.

I have the honor to be
Sir
Your most obedient servant

Thos. Lewis.

District Engineer Cuddalore.

No. 606. District Engineer's Office
Cuddalore 27th June 1878

From
The District Engineer
of Cuddalore

To The Chief Engineer
Public Works Department
Madras

Your Memo No. 235 Dated 27th May/78

Sir In reply to the above I have the
honor to state that the original Estimate
was prepared in 1873 when Mr. Sage was
Executive Engineer and Mr. C. Ratigou
Range Officer.

Encl 1

The excess due to the insufficiency
of rates is small and as said in my
former letter it is chiefly due to alterations.
The details are as follows.

Original Estimate 22,400

Revised - ditto - 25,060

Difference 2,660

Cost of alterations to Cuddalore 1872

Excess due to insufficient rates 788

3 The alterations were.

a Addition of Verandahs.

b Tiled Roof instead of Bungal

c Flat arches and pillars in stone instead of brick arches.

4 The enclosed letter from Range Officer ^{to be returned} gives the most reliable information that can be obtained in reference to the alterations, it is a pity that formal sanction was not obtained - but it is pretty clear in each case that it would have been accorded.

5 The increased strength of the Compound wall from 1132 ft to 1776 ft is admitted to be an improvement, but Mr. Schoury (who built it) was unable to say ^{who} ordered it.

6 The extra quantity of Teak wood is explained by the Range Officer and also the reason is given for an application for Rs 2000 only towards completing

the Building.

7 The out officers have been ²⁵⁷³ built according to standard plans and the total cost including the Compound wall amounts to Rs 8010 of which Rs 1800 was sanctioned for the wall.

8 The following is a complete summary of the proposed expenditure.

Original Estimate	Rs 22,100
Alterations	2,660
Out officers	8,010
	<u>33,070</u>

which is the amount of the Revised Estimate submitted to which sanction is now requested.

I have the honor to be
Sir

Your most obedient Servant

Donald Munro.

District Engineer, Bangalore.

4 Qw 10148 20 April 74
 u - 795 - 23 March -
 u - 590 - 11.4.72. R.S.
 2967. 14.12.72
 2674. 1.11.73
 C.2 2357-29-578

9872
 32

From
 The District Engineer
 of Budhalpoh
 To
 The Chief Engineer
 P. W. Department
 Madras

Dated 12th May
 Recd. June 1878

To Col. Gules!
 New Survey Nilahyatt Road
 It is stated that the original
 Estimate was prepared
 in 1873 when Mr. Sage
 was Executive Engineer
 & Mr. A. H. Wilson, District
 Officer -

C.2 10-5-78

10-5-78

12/5/57

Revenue & Roads

From

The District Engineer
Cuddalore

The Chief Engineer
Buildings & Roads
Madras

Dated 27/5/78
Recd 1/6/78
12/461

For Taluk Bulchery
at Madras — Asks
his sanction to change
the Examiner of O.M. &

to Rs 2033
- 11-5 expended during 1877-
- 78 on this — in excess
over appropriation

Lo Acty 29-8-78

Cir 15-6-78 Dtd 20-6-78

By Mr. Clerk

Public Works Department

No 2573

PROCEEDINGS OF THE MADRAS GOVERNMENT.

Under date the 20 June 1878

Read the following:—

From the Hon'ble Cuddalore (No 321 dated 8 May 78)
To ———— To ———— (No 461 — 27 May 78)
To ———— To ———— (No 461 — 12 June 78)

Under the ex-
tension of the
the Governor in Council
sanction the revised es-
timate amounting to
Rs 33,070 for the Taluk
Bulchery and Encheiding
Jail at Madras, the
original estimate for
which was sanctioned
in G.O. No 2674 dated
1st November 1873, and
amounted to Rs. 24,200.

The bulk of the excess
amount due to the provision
of Rs 8,875, of which
Rs 8,000 is for the
the 121.

R.A.

Of the excess of
Rs 8,875, a small sum
only, viz. Rs 788 is due
to enhanced rates; the

balances being attribu-
table to alterations and
additions found to be
necessary during the
progress of the work.

It appears from the
District Engineer's letter
of the 27th May that a
sum of Rs 2034 was spent
on the building in excess
of the appropriation for
1877-78

The reason assigned
is that it was desirable
to retain the services
of Carpenters and Brick-
layers who had been
specially imputed
to the work. The
Government in General
does not consider this
an extraordinary circum-
stance, and decides that
the Government concerned

may be called on to re-
port why he did not in
the first instance apply
for sanction to the excess
expenditure, and for an
appropriation of funds.
The amount must now
appear in the accounts
as an unauthorized
excess pending orders
on the ex. clamation
now called for.

The total expenditure
up to the end of the
last financial year has
amounted to Rs.
28,743, and Rs 2000 are
applied for during the
current year. This
sum is appropriated
from the Provincial
Revenue.

D. E. Cuddapah
Ap. Ma. S. With. & Co.
Per. S. S. S.

Sept 4-7-78

int. S. S.

The sanction accorded
in para 1 of the Pro. has been
registered as Provincial no 4213
of 1870. 79

2823
35

Apr 18-78
13-78
Oct 20-6/8

641
6051
605325



COOL. of (1578) 100128

PUBLIC WORKS

201
Is not
Recd
Post
H. E. Liddell

G O, 20 June 1872, No 23736

Taluk Kutcherry and Sub-
siduary Jail, Hadri, (addl)

The revised estimate
for the — sanctioned
with remarks —

S. D. B. G. V.