

(1) Number of pages 32
(2) Date of repair 13. 5. 86
(3) Initials of the Referencer 123

TAMIL NADU ARCHIVES

GOVERNMENT OF TAMIL NADU

PUBLIC WORKS. DEPARTMENT

G.O. No.	511-W	Press.
B.P. No.		Mis.
Dated	1. 2. 1878	197.

Not to be folded or roughly handled

N. J.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

1st February 1878, No. 511 W.

Buildings and Roads.

Civil Works.

Read the following paper:

No. 1. From Lieutenant-Colonel H. L. PRENDERGAST, R.E., Officiating Superintending Engineer, North Arcot, to the Chief Engineer, Public Works Department, dated Vellore, 18th January 1878, No. 3,937.

I HAVE the honor to submit for sanction revised estimates of Rupees 7,000 and

Two Estimates with Abstracts.

One Comparative Statement.

Two Plans.

One copy of Schedule of Rates.

Rupees 2,760 for adding two rooms to

No. 4 Ward in the Vellore Central Jail,

and for extending the workshop belonging

to the same ward. The corresponding

original estimates sanctioned in G.O.,

No. 2,826, of 6th October 1874, amounted to Rupees 6,880, so that the increase is Rupees 2,880.

2. There was an omission in the estimate for the additional rooms. No night latrine was provided for either of the rooms; no separate provision was made for the iron-barred revolving doors or iron-barred fixed windows: the additional items for these come to Rupees 60 and Rupees 300 for two doors and ten windows; there is another item for iron-grated ventilators, Rupees 34, for the night latrines. For brickwork in chunam the original rate was very low only Rupees 12-0-7 $\frac{1}{2}$, and this rate is raised to Rupees 15-4-5; the work in the Jail was found to cost rather more than elsewhere; workmen had an objection to going within the Jail wall, and to the practice of searching people when admitted at the gate.

There are increased items for roofing with reapers owing to higher rate, including the wood supplied from the Public Works Stores at Madras, and the roof of the night latrines. There is further a considerable increase in the teakwood which was sent for from Madras. The estimated cost of teakwood was only Rupees 3-4-0 per cubic foot, but the bill from the Public Works Stores, with cart-hire and railway charges, comes to Rupees 4, 7 Pies per cubic foot, for the wood delivered at site, without the cost of putting up.

3. There are various other discrepancies between the original and the revised estimates, but the principal causes of excess are in the items:—

	RS.	RS.
2 Iron-barred revolving doors at	30	60
10 „ fixed windows	30	300
2 „ grated ventilators	17	34
		394
Teakwood, 1,037 $\frac{1}{2}$ cubic feet, estimated at Rupees 3,371-9-8, but		
1,113 cubic feet paid at Rupees 4,804		Excess 1,433
Brick-in-chunam, 9,726 cubic feet, estimated at Rupees 1,170-11-7,		
10,047 cubic feet required at Rupees 1,535		364
Tiled roofing with reapers, 7,262 square feet, estimated at		
Rupees 654, and 7,737 square feet required at Rupees 1,168		514
Total, Excess		2,705

and with minor items the total excess becomes Rupees 2,880. In these minor items the largest excess is Rupees 56-10-11 in asphalt flooring, at the rate of Rupees 16 per

square, which is the ordinary rate for the work, while the Rupees 13.

4. The original estimate was framed by Assistant Engineer August 1874, and the schedule of rates enclosed was made out by Engineer. The work was commenced departmentally, but for it was then given on contract on the rates of the schedule. In the official year Rupees 1,330 in excess of the estimate, as the work for teak-wood had to be paid at once, and there therefore remains still a further sum of Rupees 1,550, for the disbursement of which sanction is required.

No. 2. ORDER THEREON, 1st February 1878, No. 511 W.

UNDER the explanation afforded in the foregoing letter the revised estimate, amounting to Rupees 9,760, for adding two rooms to No. 4 Ward in the Vellore Central Jail and for extending the workshed of that ward are sanctioned.

2. Rupees 8,209 having been spent up to end of 1876-77, the amount required in 1877-78 is Rupees 1,551. The Financial Department will provide this sum from Convict Labor Fund to admit of the completion of the work in the current official year.

3. This sanction has been registered as Special No. 194 B of 1877-78.

(True Extract.)

Colonel, R.E.,
Secretary to Government, P.W.D.

To the District Engineer, North Arcot.
" Examiner of Public Works Accounts.
" Judicial Department.
" Financial do.

Exd. E. C. Shunker.

Spare Copies

ENGINEERING & ROADS.
CIVIL WORKS.

15001. 1878. 1878.
PUBLIC WORKS.

THE DISTRICT ENGINEER.
NORTH ARCT.
No. 1878. 1878.

Dist. Engineer.

Dist.

Dist.

Dist.

G. O. 1878. 1878. No. 1878. 1878.

FEBRUARY.

No. 1-2.

For the District Engineer, North Arct.
The District Engineer, North Arct.
The District Engineer, North Arct.
The District Engineer, North Arct.

Comparison made between the original and revised estimate for extending No. 4 ward and worked of No. 3 and 4 wards in the Central Jail at Lahore.

Description of work	Original estimate	Rate	Amount	Quantity	As per revised estimate		Remarks
					Rate	Amount	
Extending No. 4 ward.							
Ventilated iron grated revolving windows with 1/2 section and 1/2 panelled shutter with frames and iron fittings complete — 4 x 7 1/2	10	45	450	10	85	850	Actual cost spent.
Teakwood iron grated ventilators to night latrine	22 1/2	150	3450	22 1/2	34	765	Not allowed in the original estimate
Square feet of purple brown painting 2 coats	1275	1 12	15300	1275	1 12	15300	Increase in quantity
Do. of wood oiling 2 coats	1715	1 4	7060	1715	1 4	7060	Do.
Stone slabs under susses 3 x 1 1/2 x 3/4	16	1 4	224	16	6	96	Including steps
Stone slabs for steps 6 x 1 x 1/4	6	1 8	108	6	9	54	
Local feet of earthwork and filling basement	4680	3 8	17784	4680	3 8	17784	Being to decrease in foundations
Iron stirrups and angles	40	2	80	40	2 12 8	1120	Actual cost.
Sundries and Superintendence			226 8			326 8	Increase in the amount.
Total for ward.			4730			7000	

Extending & worked of No. 3 and 4 ward.							
Local feet of Brick in chunam	2463	12	29556	1007	15 4 5	15450	Decrease in quantity.
Square feet of plastering with clay and whitewashing 1 coat.	1718	14	24052	1435	1 6	20940	Increase of rate given to contractor.
Local feet of teakwood work	398-9	325	129555	434	431 5 8	183150	Increase in quantity and in rate.

2826 dated 6th October 1874.
 S. B. C. Assistant Engineer
 S. B. C.

P. 5595 . . . 1810 10 11 1874

2003 ✓ 540 0 6 1/2 7

Wards in the Central Jail at the ...

Value of Building ... 375,294

Description of work	Quantity	Original estimate		Quantity	As per revised estimate		Difference		Remarks
		Rate	Amount		Rate	Amount	Increase	Decrease	
Extending No. 4 ward.									
Cubic feet of concrete	2457	6 7 8 1/2	159 4 "	817	5 6 7 8 53 1/2	106 4			Being to the reduction of the concrete foundation from 3 1/2
" of Brick in chunam	7263	12 " 7 3/4	874 4 "	9040	5 15 4 5 138 1/2	506 12 1/2			owing to high rate and increase in quantity for the night latrine
" of Arch work in chunam	149	13 4 2 1/2	20 10 "	213	5 16 10 8 36 1/2	15 6 1/2			" " " " " " " " " " " "
Square feet of thin plastering 2 coats of whitewashing	4300	1 2 "	48 6 "	4210	5 1 6 "	58 1/2	9 10 1/2		Being to increase of rate.
" of thin plastering and blue washing	3500	1 3 "	41 9 "	3760	5 1 8 "	56 1/2	14 7 1/2		" " " and in quantity for night latrine
Cubic feet of teakwood work for ward	638 2/3	32 5 "	207 5 10 8	684 4 7	5 4 3 1 5 8 29 5 1/2	87 5 5 4 1/2			" " " " " " " " " " " "
" " for latrine				5 5	5 4 0 6 9 "	22 1/2	22 1/2		This item not allowed in the Original estimate.
Square feet of roofing with teak repara supplied flat and pan tiles and chunam borders complete	3737	9 "	336 5 3	3737	5 15 1 8 56 4 1/2	227 10 9 1/2			
" of Tearing with brick on edge, jelly & course of flat tiles and plastering with chunam				7 1/2	5 2 3 "	18 1/2			Not allowed in the original estimate.
" of flooring with asphalt 3/4 of an inch thick laid on 4 in. chis of concrete	1764	13 "	229 5 1	1799	5 16 "	28 6 1/2	56 10 11 1/2		Increased rate and in quantity for night latrines.
Teakwood sion grated revolving doors with 1/2 venation and 1/2 pannelled shutters with frames and iron fittings complete 4 x 7 1/2	2	52 8 "	105 "	2	5 1 8 5 "	170 1/2	65 "		Actual cost spent.

By J. Sathyaiah B.B.C. District Engineer
 D.O. No. 2826 dated 6th October 1874.

5595 ... 1810 ...

Comparative Statement showing the difference between the original and revised estimate for extending No. 4 ward and work shed of No. 3 Jail at Vellore.

Description of work	Quantity	Original estimate		Quantity	As per revised estimate		Remarks
		Rate	Amount		Rate	Amount	
Square feet of Roofing with teak, reapers flat and pantiles and chunam borders complete.	4,000	3525	9	4,000	15	604	Increase of rate for tiles and some extra roofing required to the old work shed.
of flooring with gravel well rammed and sawdunghed	2066	1875	12	2066	12	15	Increase in quantity.
Cubic feet of Cartwork.	338	1296	3 8 2/27	338	4	1	Decrease in quantity.
Square feet of wood siding 2 coats		3500	14			13 12	Work not done.
Iron strappings and angles.		60	1			60	Not used.
Sundries and Superintendence.			104 7 11			135 1	
Total for work sheds.		2150			2760	8583 7 1/2	
Grand Total.		6880			9760	32444 11 3/4	

Vellore Range Office
Vellore 26th January 1878

North Arcot.
Suptg Engineer's Office
Vellore 18th January, 1878.

Excess - 3880 ✓
Signed / C. Sivaratnam Asst. Engineer.
New Superintendent Lt. Colonel R.P.
Offg. Superintending Engineer N. Arcot.

Buildings and Roads.

From

The District Engineer,
North A. road.

Dated 18th }
Received } January 1878

Comparative Statement

showing the difference between the
original and revised estimates
for extending No. 4 ward and
worksheds of No. 3 and 4 wards
in the Central jail at Vellore.

Particulars of work to Measurement Cubits

Brought forward 1050
Leave board 4 101 9 303
Total sq ft of wood to color paint 2 coats 1353

Trusses and rafters 2 49 13-6 1323
Over ridge ventilator rafters 2 49 1-3 392
Total sq ft of wood Oiling 2 coats 1715
Stone Slabs under trusses 16 3 1-6 9 54
Do for steps 6 6 1-6 18
Total Cft of Granite Stone 72

Front and rear walls of
Additional room 2 103 3-6 5 3605
End and Cross walls 2 15 9 2-6 5 551-3
Total Cft of Earth work 4156-3
Iron Stirrups and angles 40 40

Foundation to wall 1 23 6 2-3 2 105-9
Do to Cross wall 1 1 1 1/2 2-3 2 19-8
Basement including Cross wall 1 31 6 1-9 2 110-3
Superstructure to wall 1 24 1-3 10-9 322-6
Do to Cross wall 1 5 1-6 10-9 80-7 1/2
Parapet including binding wall 1 29 1-1 29
Total 667-9 1/2

Particulars of work No Measurement Content
L. B. S.

Deduct for openings — 6 2-6 1-3 1-6 28- 1 1/2
Total C. ft. of Brick in Chumam less deduction — 639-8

Total Sq. feet of terracing with
brick on edge gelly 3 courses of } 1 12 9 6 -- " 46-6
flat tiles and plastering with Chumam

D= D= 6 3-6 1-3 1-3 32- 10
Total C. ft. of arch work in brick in Chumam — 32- 10

Inside the room — 1 31 -- " 9-3 277-6
Deduct for openings — 6 2-6 " 1-6 22-6
Total Sq. ft. of thin plastering and whitewashing — 255- "

Exterior of night Latrine 1 26-6 -- " 10- " 265-6
Basement all round — 1 24 -- " 2- " 184- "
Total — 319-6
Deduct — 6 2-6 " 1-6 22-6
Total Sq. ft. of Blue washing less deduction — 297- "

D= 3/4" thick Asphalt — 2 5 -- " 5 -- " 50- "
Total Sq. ft. of Asphalt flooring — 50- "

Joists — 8 6-6 -- " 3 -- " 5 5-5
Leak wood iron gated Ventilators 6 2-6 " 1-6 22-6

Whenver the difference between

1 and 1 hundred out

District North Coast
Salem Vellore

Period Estimated No 1420/1877/78

Work

Adding 2 more rooms to No 4 Ward to accommodate 44 additional prisoners in the Central jail at Vellore

Particulars of work

No Measurement Content
L. B. S.

Foundation to front and rear walls of
additional Ward — 2 101 -- 3-6 1- 707- "

D= end and cross walls — 2 15-9 3-6 1- 110-2
Total C. ft. of Concrete — 817-2

Foundation to front and rear walls
of additional Ward — 2 101 -- 2-9 4- 2222- "

D= to end and Cross walls — 2 16-3 2-9 4- 357-0

D= to Steps — 2 6 -- 3-1- 36- "

Carried over — 2615-

Particulars of Work

No. Measurement
L. B. D.

Brought forward			2615.6
Basement to front and rear walls of additional walls	2	101-2-2	808--
D ^e End and cross walls	2	17-32-2	138--
Superstructure to front and rear walls of additional walls	2	101-1-615	4545--
D ^e to End and cross walls	2	17-91-615	798-9
D ^e Gables to end wall	1	20-91-63-52	107-8
D ^e Cross	1	19-21-63-22	92-7
D ^e D ^e to Ventilators	2	6-1-61	18--
D ^e Raising of the Gable over old	1	20-91-61-9	54-6
D ^e D ^e to Ventilators	1	6-1-61	9--
Total			9187-

Doors	2	4-1-64-6	90--
D ^e Arch over doors	2	5-61-61-6	24-9
Archways	2	3-1-64-6	67-6
Semicircular arches	2	4-1-61-6	31-6
Window	10	4-1-64-6	460--
D ^e Arch over window	10	5-61-61-6	123-9
Total Deductions			787-6

Total C. feet of Brick in Chumam less deductions 8399-
 C. ft. of Arch work in Chumam 180--

Interior walls of rooms	2	98-15	2910-
D ^e Cross and end walls	53	6-15	802-
D ^e D ^e Gables	2	17-9-4	213-

Showing the difference between

Particulars of Work

No. Measurement
L. B. D.

Brought forward			2715
Total sq. feet of thin plastering & 2 coats of whitewashing			3955--
Exterior of the long walls	2	101-1-15	2030--
End walls	1	20-9-15	311-3
Gables to D ^e	1	20-9-3-6	72-72
Ridge Ventilators	1	6-1-6	6--
Basement all round	1	224-2	448--
Total			3867-2

Doors	2	4-1-64-6	90--
Windows	10	4-1-64-6	300--
Archways	2	3-1-64-6	45--
Total Deduction			405--
Total sq. feet of thin plastering & whitewashing less Deduction			3462-2

Six beams	8	20-6-6-8	58-8-8
King post	8	4-1-64-6	10-3-112
Trunks	16	5-1-64-6	4-8-1
Principal rafters	16	11-1-5-64	40-1-3
Purlins and Pole plates	4	102-1-64	45-5-12
Ridge pole	1	102-3-54	12-1-02
Common rafters	124	14-6-44	331-7-1
Ceats for purlins	16	1-1-54	3-7-9
Uprights to Ridge Ventilators	44	2-1-34	10-5-12
Carried over			5594-10

Particulars of Work

N^o Measurement
L. B. D.

Contents

Brought forward	549-10-11
Common rafters to Ventilator 124 4-6-3 1/2-5 1/2 66-1-4	
Collar pieces	62 3-2 1/2-3 1/2 11-6-6
Purlins over uprights	2 102-3 1/2-5 1/2 24-2-0 1/2
Eave boards	4 102-1 1/4-8 1/4 29-2-7 1/2
Supports at each corner of wall to support roof	4 4-6-3 1/2-5 1/2 2-1-7
Laths for lining king post	16 1-6-1 1/2-6 1/4 1-3-7
Total Cft of Oak wood wrought and put up	686-6 1/2
Additional room	2 101-14-2828-
Ridge Ventilator	1 101-9-909-
Total sq ft of roofing with teak rafters flat and paulis and chunam borders	3737-
Additional Bricks	2 49-17-9 1739-6
Total sq ft of flooring with 3/4" thick asphalt and 3" concrete	1739-6
Teak wood doors with 1/2 Venetian and 1/2 painted with frames and iron fittings complete 4x7 1/2	2
1/2 Venetian Windows 4x7 1/2	10
Iron grated revolving doors 4x7 1/2	2
1/2 1/2 fixed windows 4x7 1/2	10
Doors 1/2 Venetian and part	3x2 4-3-9 90-
1/2 1/2 Painted	2x2 4-3-9 61-
Windows full Venetian	3x6 4-7-6 900-
Carried over	1050-

Schedule of Rates to Accompany the Agreement

10

Entered into by Kynathal Wood of Vellore for carrying out the work for building 2 more wards to the Ward No 11 and extending the shed No 3 & 4 at the Vellore Central Jail on the 10th day of March 1875.

Description of work	Per	Rate
Brick in Chunam	Cyds	1 4 2
Arch work in Chunam	"	4 8
Thin Coat of Chunam plastering and whitewashing 2 Coats	Sq ft	1 6
Thin Coat of Chunam plastering and whitewashing 2 Coats	"	1 8
Painting in Chunam & whitewashing 2 Coats	"	15
Roofing with flat and Paulis and Chunam borders including nails for rafters but not the rafters which will be supplied	"	8
Departmentally	"	8
Flooring with Asphalt 3/4" and 1/2" thick in inches of concrete	"	16
Brown Painting 2 Coats	"	1 12
Wood Ciling 2 Coats	"	1 4
Sundries at 2 per Cent	"	

N. B. Materials to be of the first class and to be previously passed before being used on the works. The line to be marked on the works. The x 7-1-8 added for teak repairs makes Rs 15-1-8.

Railings and Roads.

NORTH ARCOT,
District Engineer's Office,

Vellore 18th January 1878.

No. 3937.

From

The DISTRICT ENGINEER,

NORTH ARCOT,

To

The Chief Engineer,

Public Works Department

Madras.

Enclosures, 6

Estimates with
comparative
Statement
Plans
Copy of Schedule
of rates.

Sir,

I have the honor to submit for sanction, revised estimates of Rupees 7,000 and Rupees 2760: for adding 2 rooms to No. 4 ward in the Vellore Central Jail, and for extending the workshop belonging to the same ward. The corresponding original estimates sanctioned in G.O. No. 2826 of 6th October 1874, amounted to Rupees 6880; so that the increase is Rupees 3880.

2. There was an omission in the estimate for the additional rooms. — No night latrine was provided for either of the rooms; no separate provision was made for the iron-banded revolving doors or iron banded fixed windows: the additional items for these come to Rupees 60 and Rupees 300 for two doors and 10 windows.

9760
1878

258

remains no difference

There is another item for iron grated ventilators Rupees 34 for the night latrines. Now brickwork in chunam, the original rate was very low, only Rupees 12-0-7 1/2; and this rate is raised to Rupees 15-4-5: the work in the jail was found to cost rather more, than elsewhere: workmen had no objection to going within the jail wall, and to the practice of searching people when admitted at the gate.

There are increased items for roofing, with repress, owing to higher rate, including the wood supplied from the P. & S. Stores at Madras; and the work of the night latrines. There is further a considerable increase in the teakwood which was sent for from Madras. The estimated cost of teakwood was only 3 1/4 Rupees per cubic foot: but the bill from the P. & S. Stores, with cart hire, and Railway charges comes to Rupees 4-0-0 7 pias per cubic foot: for the wood delivered at site, without the cost of putting up.

3. There are various other discrepancies between the original and the revised estimates: but the principal causes of

excess are in the items:—
 2 iron banded revolving doors at 30. — 60
 10 iron framed windows — 30. — 300
 2 iron grated ventilators — 17. — 34
 additional — 394

Teakwood 1037 1/2 cubic feet estimated at Rupees 3371-9-8: but 1113 cubic feet paid at Rupees 4804. — excess. — 1433

Brick in chunam, 9726 cubic feet estimated at Rupees 1170-11-7: 10,047 cubic feet required at Rupees 1535. excess — 364

Tiled roofing with teak rafters, 9262 square feet estimated at Rupees 6545 and 7737 square feet required at Rupees 1168. — excess at Rupees — 514

Total excess Rupees — 2705-6 and with minor items, the total excess becomes Rupees 2880. — In these minor items, the largest excess is Rupees 56-10-11 in asphalt flooring: at the rate of Rupees 16 per square, which is the ordinary rate for the work: while the estimated rate is only Rupees 13.

4. The original estimate was framed by Assistant Engineer, Soobrayachari, in August 1872: and the Schedule of rates, enclosed, was made out by the

same assistant Engineer. The work was
commenced Departmentally, but found to
be expensive; and it was then given on con-
tract on the rates of the Schedule.

There was paid in last official year
Rupees 1330-- in excess of the estimate;
as the workshop bill for teak wood had
to be paid at once; and there therefore
remains still a further sum of Rupees
1550-- for the disbursement of which sanc-
tion is required.

I have the honor to be,

Sir,

Your most obedient servant

W. W. Windergar & Lt. Colonel R. E.

Offg. Superintending Engineer
North Arcot.

Buildings and Roads

From

The District Engineer,
North Arcot.

No. 3937.

Dated 18th }
Received } January 1878.

No. of Enclosures Six.

Two Plans with Observations.

Central jail at Vellore

Forwards, for Sanitation
revised estimates of Rs. 7000 and 2760 for adding
rooms to No. 4 ward and
for extending the work-
sheds of the same ward
in the

30.6.1878 No. 2826.
Mis 28 July " " 236.
13 Aug " " 66.

Ar 30-1-78. 231-1-78

No. 511 W Public Works Department.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

Under date the 1st Feb. 1878.

Read the following:—

From
The Dist Engr. N. Arcot (No. 3937 d/18th Jan. 1878)

Under the explanation
afforded in the foregoing
letter the revised estimate
amounting to Rs 9760 for
adding 2 rooms to No. 4
ward in the Vellore Central
jail, and for extending the
workshed of that ward
are sanctioned.

2. Rs 8209 having been
spent up to end of 1876-77,
the amount required in
1877-78 is Rs 1551. The
Financial Dept. will
provide this sum from

Convict Labor Fund to
admit of the completion
of the work in the current
official year. $\frac{W}{30.1.78}$

907

This sanction has been
registered as special No. 194 B
of 1877-78.

D.C. North West
for P. W. North West
Judl Dept & Estimo
Finl Dept
Drsh 2.

16
Vol. of 1878 Madras
PUBLIC WORKS.

To

Mr. H. S. K. A.

Dated

Issued

Recd.

Encl.

G. O. 10th Feb'y 1878, No. 511W

Nos.

Bellam Central Park,
A. Arcot Dr. - The revenue
estimate for certain addi-
tional alterations to the —
sanctioned, and the Civil
Dept requested to provide
the necessary funds.

auth. by

120/128-2