

(1) Number of pages _____

(2) Date of repair _____

(3) Initials of the Referencer _____

MADRAS RECORD OFFICE.

Government of Madras.

Public Work DEPARTMENT.

G.O. No. 2157	(W) Press Mis.
Dated 19-12-	1877.

Not to be folded or roughly handled

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

19th December 1877, No. 2,157 W.

Buildings and Roads.

Civil Works.

Read the following papers :—

No. 181.	From the District Engr., South Canara, dated 18th May 1877, No.	15.
No. 181-A.	From the do. do. do. " 13th Aug. " "	40.
No. 181-B.	From the Inspector-General of Police, " 2nd Nov. " "	4,910.
No. 181-C.	From the District Engr., South Canara, " 10th Dec. " "	65.

No. 182. ORDER THEREON, 19th December 1877, No. 2,157 W.

HIS GRACE the Governor in Council declines to sanction the more costly designs submitted by the District Engineer. The original plans which have been approved by the Police Department will be carried out, the estimates for which stand as follows and are sanctioned accordingly :—

	RS.	NO.	
Police Station-house at Golitattoo ...	535	241	} B of 1877-78.
Do. do. at Panemangalore ...	535	242	
Three Police Huts at Hosangadi ...	525	243	

2. This sanction has been registered as Provincial and numbered as shown above.

(True Extract.)

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

To the District Engineer, South Canara.
" Inspector-General of Police.
" Examiner of Public Works Accounts.
" Judicial Department.

Exd A. Grubert.
Spare Copies

From the District Engineer to the Engineer-in-Chief
Inspector General of Police, 21/10/22
P. D.

Note by the Chief Engineer

The plans first submitted for the station houses at Panemanga. The designs approved by the Police Dept. who are to use them. District were very beautiful and when the District Engineer was called to account for the fault in the design he replied that the plans had not been supplied by him but by the Police Dept.

For sanction the
orig. designs approved
by the Police Dept. who
are to use them.
because approved by
the District Engineer
over the District
Engineer's fault in
is very different from
that is called ordinary
good work. etc.

Done at
15/11/22

The question of re-
vising and reducing
the

the cost of the various standard plans that have been sanctioned for the different classes of Police Stations has already been taken in hand in the Chief Engineer's office and now that the requisite information has been obtained in communication with the Consulting Architect it is hoped suitable designs will be completed and submitted for sanction at an early date.

Government have ruled that no building for the permanent occupation of the Police shall be constructed of wood.

³
The latter part of para 3 of the District Superintendent of Police's letter dated 27th September 1877, No. 412, very graphically describes the result of temporary structures, it is to obviate this condition of things that standard plans with specifications are designed. Buildings scientifically defective may be found to answer very well for a time but experience shows that in the long run they are quite as expensive if not more so than permanent correctly constructed buildings.

The plan now submitted
for the Panemangulora
Police Station-house
is recommended for
sanction and
immediate construction
the other two estimates
for sanction for entry
in the Budget of 1878-79.

In place the previous

estimates for Police Station-houses at Kallitatto
Kals for Basrangady.

W. P. R. S.
Chief Engineer.
P. O. D.
S. L. George
Nov 1/77-3

Very truly
yours
W. P. R. S.
Chief Engineer.
P. O. D.
S. L. George
Nov 1/77-3

Handwritten notes at bottom left of page 1.

No. 15
District Engineer's Office
Bangalore 18th May 1877
4
From The District Engineer
South Canara

To The Chief Engineer
P. O. D. M. S. S.

Sir, In regard to your Memo. No. 227
dated 9th May 1877 returning plans estimates
& specifications for Police Stations
& huts in the South Canara District,
I have the honor to say that only the
estimates & specifications for Police
Stations emanated from this office.
The plans were supplied by the Super-
intendent of Police who requested
copies & estimates for the works. I
believe buildings of this style have
been raised in the District but I
am thankful to say that since
have been in charge the Public Works Depart-
ment have had no hand in them. The
Police Department seem to have the
entire

S. L. George
22nd Nov 1877
22nd Nov 1877

entire management of Police works
and an occasional estimate will
that they ever trouble the Public Works
Department for beyond therefor sup-
plying these there has been no inter-
ference on our part.

With the system in vogue and
apparently sanctioned by Government
I have not hitherto thought it advisable
to stir in the matter. Now however
your *Imprimandum* giving me the op-
portunity I cannot resist remark-
ing that the talents of the Police are
somewhat misdirected when em-
ployed in designing buildings and cal-
culating cubical contents. It is doubt-
less illegitimate assistance is occasionally
given by Subscribers, but it is singu-
lar that further aid is not sought from
the Department, that is the proper source
of plans & estimates, and which is
regularly supplied with the latest &
standard designs.

I would suggest for your con-
sideration whether it would not be ad-
vantageous

advantageous to leave designing & estimating
 for Police buildings entirely to the Police
 & Fire Department. Police officers may
 state for the future their requirements.
 The change will save delay and much
 extra work to both Departments let the
 architect be the executor of the work.

I have the honor to be
Sir,
Your most obedient servant

Eastmangh

District Engineer
South Kansas

Handwritten:

1870

P.W.D.
22 MAY 77
1088
From
The District Engineer
Mamara
The Chief Engineer
D.P.W. Madras.

No 15
Dated 18th
Recd 19th } May 1877
Recd

Enclosed

Memo No 1490 of 6 June 1877

No 181

Police buildings. Suggests
with reference to memo noted
within, whether it would not
be advantageous to have design-
ing & estimating for
entirely to the Public works
department.

Recd 14-11 R 30-11
Recd 14-11 R 15-11
14-11

No 1490
Memorandum
From the D. & S. South Canara
No 15 Dated 18th May 1877
Copy forwarded to the
Inspector General of Police for informa-
tion, with the remark that the Chief
Engineer believes the submission of plans
and estimates, required for Police
buildings generally, would be greatly
hastened, and correspondence much
reduced, if giving due notice application
be made in the first instance by the
Local Police Superintendents to District
Engineers for their preparation.

2 Once approved sets of designs
and specifications for the various
classes of Police buildings as pointed
out in this office memo No 1262 dated
the

the 15th may are determined upon and
 supplied to the Police and Public Works
 officers, the requisition need be only
 for buildings of such and such a
 class, naming site and locality and
 nothing but the estimates need be
 submitted; the class and the nature
 of the building being entered at the
 head of the estimates, with note that
 the work is to be carried out in
 accordance with the printed specifi-
 cation.
 (By order of the Committee for the
 Police and Public Works)
 Sd/- W. Farewell Colonel
 6 June 1878
 By Chief Engineer P. W. D.
 The Inspector General of Police

And Principal
 Chief Original Police and Public Works
 Headquarter Police Department
 Subhead - in Stations
 Detailed Estimate No. 10 of 1877-78
 For Constructing a Police Station at
 Panamangala in the face of the Suburban machine line
 (Particulars of work)

	Measurement of work	Rate	Amount
<u>Foundation</u>			
Front and rear wall of station	2 27 54		
End and cross wall of do	3 10 31		
		85 1/2	2 513
Front wall of verandah	1 27 27		
End wall of do	2 2 4		
		31	2 1 93
<u>Steps</u>	1 6 6 2 1		12
<u>Passage</u>			
Front and rear wall of station	2 26 52		
End and cross wall of do	3 11 33		
Front wall of verandah	1 26 26		
End wall of do	2 2 53		
		118 3/4	2 531
<u>Steps</u>	1 6 6 1 1/2		12
<u>Superstructure</u>			
Front and rear wall of do	2 25 51		
End and cross wall of do	3 12 36		
		87 1/2	10 1305
Carried over			2166

Particulars of work.

	Measurement	Length	Width	Depth	Volume
Brought over	7 1/2				
Setting basements in office room	1	11 1/2			
Do Branda	1	19 1/2	11 1/2	1 1/2	329 3/4
Total Cft of Earthwork		21 3/4	2 1/2	1 1/2	87 3/4
or Cubic Yards					418 3/4

Doon for office 1 3 6
 Do for lock up as per drawing 1 3 6
 Ventilation for do 2 4 2
 Windows for office 2 3 4
 Brick Vack 1
 Asphaltum

Office room 1 12 1/2
 Lock up room 1 5 1/2
 Branda 1 21 12 252
 Sills of door ways 2 3 6 1 1/2 9
 Sills of steps 1 6 6 2 12

Office room 1 12 1/2
 Lock up room 1 5 1/2
 Branda 1 21 12 252
 Sills of door ways 2 3 6 1 1/2 9
 Sills of steps 1 6 6 2 12

Deductions
 Corners occupied by Branda { 4 1/2 6 1 1/2 9
 pillars

Total Cft of asphalt 1/2 thick 405 3/4

at Engineer's office
 Mangalore 13th August 1877

M David Jui
 Ag. Engr. Mangalore
 K. S. K. S. K. S.
 Supt of Police

South Canada District

Detached Estimate No 16 of 1877-78

Constructing a Police Station
House at Pansungahne
in the Passenger's Valley.

Fund Provincial
Class Original Works Civil Buildings
Number 17 Police Department
Subhead ii. Stations 10.
Abstract Estimate No 16 of 1877-78.

South Canada District
Work Constructing a Police Station House at
Pansungahne in the Passenger's Valley with machine made tiles

Quantity Description of work Rate Amount Total
at Pansungahne

2451 Cft of latente in chumam - 100 cft 19 - 465 11

206 3/4 Cft of plastering with one
coat of chumam - 100 cft 3 - 6 45

279 Cft of flooring with latente
jelly in chumam 1/2" thick - 50 - 15 11

198 Cft of roofing with rafters
5 x 3 1/2" pieces 2 x 1 1/2" & solar
pieces using machine tiles - 24 - 19 83
& chumam borders including
tarring &c complete

37 1/2 Cft of jungle wood wrought
& put up - 10 - 60 15

12 3/4 Cft of ceiling with planks
1/2" thick including nails - 2 - 25 8

15 1/2 Cft of Earthwork - 26 - 26 9

1 Pattern door 3 x 6 with glass
hinges bolts lock & handle &c
complete - 12 - 12

Quantity Description of work Rate amount Total

On Road & Road

Brought over 835 10 6

1 Battened & iron barred
door 3x6 for lock up room
including frames hinges each 19 19
with lock & iron fittings
in complete as per drawing.

2 Pentators iron barred
for lock up room as per do 10 10
drawing (3x4)

2 Battened windows for
office room (3x4) with
frames hinges hooks
nails & iron fittings
complete

1 Iron pack do 10 10

405 Sft of asphalt & pitch
over floor } 15 60 15

Sundries & superintendence at 5 pias 15 9 6

Total Estimate Rupees 1010 - -

District Engineer
Mangalore 13 August 1877

W. David Jones
District Engineer
Victor Markham
Superintendent

South Canara Dist.

Abstract Estimate

Constructing a Police
House at Panemang
in the Cassergode Taluk

Amount Rs 1010-0-

1. Fund—Provincial
Class—Original Works Civil Buildings
Mainhead—Police Department
Subhead—Police Station
Detailed Estimate No. 15 of 1877-78
South Canara District
1878. Constructing a Police Station House at Gola
tattoo with machine made tiles.

Particulars of work

	Length	Breadth	Depth	Content	Quantity
--	--------	---------	-------	---------	----------

Laterite in Chumam
Foundation

Front and rear walls of station	2	27	3 1/2	513	
End and Cross walls of do	3	11 1/2	3 1/2	85 1/2	3
Front wall of verandah	1	27	27		
End wall of ditto	2	2	4		
Steps	1	6	6	2	1

Pavement

Front and rear walls of station	2	26 1/4	5 1/2		
End and Cross walls of do	3	11 1/4	3 3/4		
Front wall of verandah	1	26 1/4	26 1/4		
End wall of do	2	2 3/4	5 1/2		
Steps	1	6	6	1 1/2	1 1/2

Superstructure

Front and rear walls of do	2	25 1/2	51		
End & Cross walls of do	3	12	36		
			87 1/2	10	1305
Carried over					2466

Particulars of work
 Measurement Length
 Each side
 Depth
 Contents
 Total

Brought over
 Cable over cross wall — 1 6 1/2 6 1/2 1 1/2 40 1/2
 Pillar in verandah — 4 1 1/2 6 1 1/2 6 1/2 58 1/2
 Total Cft — 256 1/2

Deductions

Doorway — 2 2 6 1 1/2 6 54
 Windows — 2 2 6 1 1/2 4 30
 Ventilators or windows in lobby — 2 1 8 1 1/2 2 24
 Total Cft of deduction — 114
 Total Cft of lattice in chimney for deduction — 24 1/2

Plastering

Large room or station room inside — 1 49 49 10 1/2 514 1/2
 Lobby inside — 1 41 41 10 1/2 421 1/2
 Both sides of gable end over cross wall — 2 6 12 4 48
 Outside of both rooms all round — 1 81 81 9 1/2 769 1/2
 Pillar all round — 4 6 24 6 1/2 156
 Plaster on all round — 1 94 94 2 188
 Top of steps — 1 6 6 2 12
 Ends of do. — 2 1 1/2 2 1 1/2 11
 Sides and sills of windows — 2 11 22 1 1/2 33
 Sides of doors — 2 12 24 1 1/2 36
 Sides and sills of ventilators — 2 8 16 1 1/2 24
 Total Cft of plastering — 2215 1/2

Deductions

Both sides of doors — 2 2 3 12 6 72
 Sides of windows — 2 2 3 12 4 48
 Sides of ventilators — 2 2 4 10 2 32
 Total Cft of deduction — 152
 Total Cft of plastering less deduction — 2063 1/2

Particulars of work
 Measurement Length
 Each side
 Depth
 Contents
 Total

Flooring

Large room — 1 11 1/4
 Lobby — 1 7 3/4
 19 1/2 19 1/2 11 1/4 219 3/4
 Verandah — 1 21 1/4 2 1/4 59 1/2
 Total flooring square feet — 279 3/10

Roofing

Main building — 1 57 10 3/4 612 3/4
 Verandah — 1 28 1/2 6 1/2 185 1/4
 Total roofing square feet — 798

Woodwork

Wall plates — 1 75
 Skirting — 4 14 1/8 56 1/2
 131 1/2 86 1/2 21 1/2
 Repairs including over lapping — 2 8 1/2 25 1/2 1/3 7 1/2 4 23/24
 Joists for lobby room inside
 Ceiling in cross passage — 4 9 1/2 38 1/6 1/4 1 1/2
 do in length ways — 2 12 24 1/6 1/3 1 1/2
 Corbels — 4 1 1/2 6 1/3 1/2 2
 Pillar plates — 4 1 1/4 1 1/4 1
 Lined planks over doors — 2 2 6
 Sills — 2 3 6
 Sills — 2 4 8
 21 1 1/2 1/6 5
 Total single wood feet — 37 57/72

Ceiling the lobby

Plastering over lobby room — 1 8 1/2 8 1/2 12 1/6 12 3/4
 Total Cft of ceiling with planks — 12 3/4

Particulars of work

Measurements in feet
 Length
 Breadth
 Height
 Volume

Earthwork

Filling basement in lockup room	1	7 3/4			
do Office do	1	11 1/4			
do Verandah	1	21 3/4	2 3/4	1 1/2	32 3/4
Total Cft of earth work					118 3/4

Door for office	1	3	6		18 3/4
do for lock up & for drawing	1	3	6		18 3/4
Ventilators for do do	2	4			
Windows for office	2	3	4		
Architect	1				

Skylighting

Office room	1	12 1/2			
Lockup room	1	8 1/2			
Verandah	1	21	12		252
Sills of doorways	2	2 1/2	5 1/2		14 3/4
Sills of steps	1	6	6	2	12
Total Sq ft					414 3/4

Decorations

Portion occupied by verandah pillars	4	1 1/2	6	1 1/2	9
Total Square feet of ceiling 1/2 thick					118 3/4

District Engineer's Office
 Bangalore 13 August 1873

W Davidson
 District Engineer
 District Engineer
 Supt of Police

200

100

100

South Canara District

Abstract Estimate No 15 of 1877-78

Constructing a Police Station
House at Goltatto in
the Uppinangdy Taluk.

Fund — Provincial
Class — Original work for Buildings
Mainhead — Police Department
Subhead — Stations
Abstract Estimate No 15 of 1877-78

South Canara District
Work — Constructing a Police Station House at
Goltatto in the Uppinangdy Taluk with machine made tiles.

Quantity	Description of work	Rate	Amount	Total
2451	Cft of Kateru Chumam —	supp 19	46511	
2063 1/2	Cft of plastering with 1 coat of Chumam —	supp 3	61115	
279	Cft of flooring with latite pelly in Chumam 1/2" thick —	do 50	15111	
748	Cft of Roofing with rafters 5 x 3 1/2" piers 2 x 1 1/2" & collar pieces using machine tiles & Chumam borders including tarring &c complete —	do 24	19183	
37 1/2	Cft of Junglwood wrought & put up —	supp 10	6015	
23 1/2	Cft of Ceiling with planks 1 1/2" thick including nails —	2	258	
15 1/2	Cy of Earth work —	supp	26	269
1	Plattened Iron 3 x 6 with brass hinges bolts lock &c & nails &c complete —	supp 12	12	

Carried over — 335106

Quantity	Description of work	Rate	Amount	Estal
		Per Piece		
	<u>Plaster</u>		835 10 6	
1	Plastered & iron barred door 3x6' for lock up room including frame hinges lock & iron fittings & complete as per drawing	19	19	
2	Ventilators iron barred for lock up room as per drawing do (2x4')	10	20	
2	Plastered windows for office room (3x4') with frame hinges lock & nails & iron fittings complete	9 8	19	
1	Crampack	10	10	
400	Sft of Asph. half 1/2" thick on floor	15	60 12	
			964 6 6	
	Sundries & Superintendence cont 5		45 9 6	

Estal Estimate Pieces 1010

Dr. Engineer's office
Mangalore 13 August 1877

W. Davidson
By. Dist Engineer
The Hon. Mr. Justice
Capt of Police

South Ceylon District

Abstract Estimate No. 10/1877

Constructing a Police Station
House at Cpl. Station in
The Kappangady, Ceylon.

Amount Rs. 12,200/-

No. 40 District Engineer's Office
Kangalae 13th August 1877
From J. P. Davidson Esq.
Esq. District Engineer
South Ceylon

To, Colonel C. A. Ford R.E.
Chief Engineer for Roads & Buildings
Madras.

Sir,
With reference to your Memo. No. 1227
of 9th May 1877, I have the honor to submit
herewith fresh plans, estimates and speci-
fications for constructing Police Stations
Police Station at Cpl. Station ^{Rs.} 1010 and Kulo as
do — at Kappangady ^{Rs.} 1010 detailed in
Kulo at Kappangady ^{Rs.} 1000
the margin, prepared in accordance
with your instructions therein given.

2. There is some difference between
the rates entered in the estimates,
which is due to the localities where
the work has to be executed.

3. In the estimates for construction
Kulo

18
Sub basements, which are not allowed
in the Standard design, have been
added, these being considered neces-
sary in the damp climate of this
Coast.

I have the honor to be,
Sir,
Your most Obedt Servt

W. Davidson
Asst. Engr.

Roads and Buildings.

From
The District Engineer
South Kanara

To The Chief Engineer
Roads & Buildings
Mysore.

No 40.

Dated 15th
Dec. } August 1877.

No. of enclosures (12.)

Police Stations & Kuts.

Forwards Plans & Estimates
& Specifications for con-
structing — at G. S. Station
Ras Mangalore, & Mysore.

No 1872

No 412

The Superintendent's Office
Mangalore 27th September 1877

From
Major J. T. Norton Warlow
Superintendent of Police Kanara
To Mr. Assistant Inspector General of Police
Mysore.
Mrs. Deputy Inspector General of Police
Southern Range.

With reference to your Memo
marginally noted I have the honor to
forward. Copies of a Correspondence with
the District Engineer and to request
instructions as to the Construction of the
Station Houses and Kuts entered in
my Scheme for this year (1877-78), the
revised Estimates for which amount
to Rupees 3220, in place of Rs. 1425,
the sum for which I estimated originally.

2 As requested, I have Counter-
signed the plans and Estimates now

prepared in accordance with the instructions of the Chief Engineer, but would point out that if they are adopted the amount sanctioned (Rs. 1662) will suffice only for one Station House at Panemangalore where (it is most urgently required) and for the wells.

3 I would however most strongly recommend that permission should be obtained to carry out the works on the original plans, which, however defective from a scientific point of view, have been tested practically and found to do very well. Buildings on a similar plan and of the same materials, which have been built in many places, have answered all our purposes

Recommend
to be
adopted

recommending the

Disinterested
unbiased
disinterested
recommending to
Adverse to the
Designs, but that
Whom it is desired
can only be attributed
to personal bias. They are worth
granted to detract
the unwholesome
effect - be to the

hitherto, and have worn well; if we are obliged to conform in all cases to a standard plan and to make use of the most expensive materials (building no Station under Rs. 1000 or Hut under Rs. 400) it will be quite impossible to meet the requirements of the District, and for many years to come we shall have to put up with the miserable sheds which, in many places, do duty for Station Houses, and with huts which barely shelter our men from the weather, and cost more in repairs than they are worth.

As the monsoon is now over and buildings should be taken in hand shortly, if they are to be completed by the end of the Official year, I should feel obliged by your favouring me with

Original from Carl Paul Sings
No. 36 of 1877-78 Subscribed in Hand

Work

Constructing three Police Constables Huts at
 Kope anga in the Gundapur Taluq.

Detail of Work.	Number.	Measurements in feet.				Total quantity of each description of work.
		Each.	Total.	Breadth or Thickness.	Height or Depth.	
<u>Lateral in Chumam</u>						
Foundation to pillars in main building verandah & Cook Rooms	2		36	2 1/2	36	2 1/2
Superstructure to pillars in main rooms	10 1/2	24	24	1 1/2	9	32 1/2
do. to pillars in verandah & rooms	6 1/2	24	24	1 1/2	8	28 1/2
do. to do. in verandah & rooms	8 1/2	12	12	1 1/2	5	90
Coping over compound wall all round	1	24	24	1 1/2	3/4	30 1/2
Total of lateral stone in Chumam						115 1/2
<u>Side wall bricks in Chumam</u>						
Foundation to walls between pillars of main building in front & rear	4 1/2	24	24	1 1/2	3	36
do. to end & coping of main building	5 9/2	24	24	1 1/2	3	36
do. to front & rear wall of Cook Rooms	4	24	24	1 1/2	3	36
do. to end wall of Cook Rooms	3 9/2	24	24	1 1/2	3	36
do. to end & coping wall of verandah	5 3	15	15	1 1/2	2 1/2	163 1/2
Coping over						93 1/2

Detail of Work.	Number.	Measurements in feet.				Contents.	Total quantity of each description of work.
		Length.		Breadth or Thickness.	Height or Depth.		
		Each.	Total.				
<u>Superstructure</u>							
Walls between pillars of main building	12	5 1/4	63				
End and Copers of do.	5	11	55				
Front and rear walls of Cook Room including gables	2	4 1/2	9	1 1/2	9	132 1/2	
End walls of do.	2	10	20	1	10	180	
End and Copers of veranda including gables	5	3 1/2	17 1/2	1	17 1/2	125 1/2	
Gable over end wall of single & centre wall of double hut	2	12	24	1 1/2	24	97 1/2	
Steps in front including foundations	3	3	9				
<u>Deductions</u>							
For doorways in main building	3	3	9				
" Rooms in do. do.	2	3 1/2	7 1/2	1 1/2	7 1/2	33 1/2	
Arched openings in Cook Room rectangular portions	2	6	12	1 1/2	5	45	
" Circular portion in do.	1	4 1/4	4 1/4	1 1/2	4 1/4	15	
End of veranda	2	6	12	1 1/2	5	15	
<u>Total</u>							

Detail of Work.	Number.	Measurements in feet.				Contents.	Total quantity of each description of work.
		Length.		Breadth or Thickness.	Height or Depth.		
		Each.	Total.				
<u>Mud walls.</u>							
Compound wall all round including screen walls	1	-	270	1 1/2	5	2070	
Pyal in verandahs	3	15 1/2	45 1/2	5	1	157 1/2	
Total						2227 1/2	
<u>Deductions</u>							
For space occupied for way to rooms	3						
" Space occupied by pillars	3						
Total deductions						15 1/2	
Total of mud wall & structure							2222
<u>Plastering with mud</u>							
Inside of large rooms	3	44	132		9 1/2	1254	
Gable end over end wall	1	11 1/2	46		2 1/2	115	
Inside of Cook room to 6 ft in height	3	30	90		6 1/2	535	
do from do to top	2	15	45		2 1/2	112 1/2	
Inside of verandah up to 5 ft in height of double hut	2	22 1/2	45				
do do of single hut do	1		27 1/2				
do of do up to top of double hut	2	17 1/4	35 1/2		5	337 1/2	
do do of single hut	1		17 1/2				
			53		4 1/2	238 1/2	
Pillar in verandahs	3	6	18				
do front face of corner pillars	3	1 1/2	4 1/2				
			22 1/2		5	112 1/2	

	Nun	Eac	Tot	Br TI	H	To eq
End wall of verandah outside	4	5	20	1	7	140
Front & rear walls of Cook room outside	8	0.7	36	4 1/2	270	
End wall of Cook room outside	3	13	39	6	234	
Rear wall of "bbk" outside	1		25 1/2			
do of Culwa			15			
do of low ya			13			
			58 1/2	9	528 1/2	
Recessed of double hut all round	1		112	1	112	
do of single hut - do	1		75 1/2	1	75 1/2	
Side of doors	2	1 1/2	4 1/2	12	54	
do of side of verandah	3	1 1/2	4 1/2	8 1/2	34 1/4	
do do in Cook room	2	1 1/2	4 1/2	6	27	
do & entrance of arch openings in Cook room	2	13	39	4 1/2	58 1/2	
Total of plaster					127 1/2	
<u>Deductions</u>						
Both sides of dormer	33	2	18	6	108	
do of verandah	33	2 1/2	15	3	45	
do do of Cook room	33	2	12	2	24	
Arched openings of verandah	32	4.57	69.42		69.42	
Total deductions of plaster					216.42	
Total of plastering with mud less deductions					4026.33	

Detail of Work.	Number.	Measurements in feet.			Contents.	Total quantity of each description of work.
		Length.		Breadth or Thickness.		
		Each.	Total.			
<u>Flooring with jilly in mud</u>						
Large dormer	3	11 1/2	34 1/2	9 1/2	297 1/4	
Cook room	3	9 1/2	28 1/2	4 1/2	128 1/4	
Total of flooring with jilly in mud					425	
<u>Roofing</u>						
Sloping portion of double hut 4 sides	1	63 1/2	63 1/2	9 3/4	619 1/8	
Rectangular do of 2 in front	1	31 1/2	31 1/2	6	189	
Rectangular do of single double hut in front	2	10	48	7 1/2	360	
do portion of single hut in front	1	18	18	6	108	
Sloping do do in 3 sides	1	36	36	9 3/4	351	
Total of roofing					1627 1/8	
<u>Woodwork</u>						
Prop runners between pillars including overlapping	6	7 1/4	43 1/2	2 1/2	4	3 1/8
Pillar plates	8	1	8	1	3	2
Wall plates over front end wall of main hut	1		15 1/2			
do over end wall of						
Cook room	2	11 1/2	34 1/2			
skip rafters	6	13	78			
			228	6	3	25 1/2
Wall plates over doors	2	4	12			
do over windows	3	3 1/2	10 1/2			
			22 1/2			

Final Provincial Class Original 1878 Civil Building
 Abstract Estimate No. 36 of 1877-78.
 South Canara District. Subhead in full

Work. *Constructing three Police Constable huts at Kopy*
by the Canadian Engr.

Quantities.	Description of work.	Rates.			Amount.			Total.	
		Per	Rs.	A. P.	Rs.	A. P.	4s.	A. P.	
115 1/2	Off latente in Chimam	12 1/2	24		279	12			
1987 1/2	San bent brick in								
	and	do	8		239				
2202	Shedwalk	do	1	4	27	54			
4026 1/2	Plastering with								
	& whitewashing with	14			50	53			
	2 coats of Chimam								
456	Floring with latente								
	ply mchly well beat								
	with wooden samson	do	1	4	5	112			
	& washing over with								
	concreting								
1627 1/2	Roofing with good								
	gunglwood emplas								
	5' x 2 1/2" with ceiling	do	25		406	126			
	4 x 2' paper 2 1/2" mchms								
	tiles & chimam borders								
	& tarring complete								
43 1/2	Off Wood work draught								
	and put up	1 1/2			75	134			
	Carried over								1084 41

Work.
 Detailed Estimate No. 36 of 1877-78.
 D. P. W. South Canara District.
 1877-78
 Constructing three Police
 Constable huts at
 Kopy by the Canadian
 Engr.

Quantities.	Description of work.	Rates			Amount.		Total.	
		Per.	Rs.	A. P.	Rs.	A. P.	Rs.	A. I.
	<i>Range over</i>						1084	11
39	<i>Gr. Eastwards</i>	90	26		6	10		
3	<i>Pattern done with frames higher holes, lining fitting, each</i>	10			30			
	<i>Complete (5x6)</i>							
3	<i>do. window 2x3 with frames higher holes, lining fitting & complete</i>	4			12			
3	<i>do. do 2x3 - do - do</i>	2			6			
2	<i>Machins made slightly for each door to be fixed on the roof 2x3</i>	2			6			
	<i>Total Repairs</i>						1144	15
	<i>Landries & Superintendence work</i>	5			55		5	
	<i>Total Estimate Repairs</i>						1200	

District Engineer, Office
Rangalore 24 Sept 1897

W. Davidson
District Engineer
Rangalore 24 Sept 1897

Specification Report to accompany
Plan and Estimate for Constructing three
Police Constabularies at Kopeangady
in the Coimbatore Taluk.

The building consisting of two sections
of 12 ft. and 13 ft. with
verandahs of 11 ft. and 5 ft. attached to the built
of Sun-dried brick in clay and latente
in chimney pillars. The foundation, basement and super-
structure of pillars in main building,
Chimney and verandahs to be of latente
stones in chimney of the division
masonry. The latente stones shall be of
best quality not too porous and free
from absorption of white earthy matter.
They shall be neatly finished to the ordinary
size used in the app. viz: 18 x 9 x 6.
The bricks to be made of the best
brick earth to be carefully dried before
being

1877
D. P. W. South Canara District.

Abstract Estimate No. 26 of 1877 78.

Work.

Constructing three
Police Constabularies with
at Kopeangady in the
Coimbatore Taluk.

Amount Rupees 1200-0-0

being used and laid throughout in English
Bond, the bricks to be $9 \times 4 \frac{1}{2} \times 3$.

The compound walls and pillars in
mirandahs to be of mud and to be raised Hand walls.
layer by layer each one being permitted to
harden before adding the next. Each layer
shall be 18" in depth. The external and in-
ternal surfaces shall be well battled and
brought to a true vertical level. Nothing
but well tempered clayey soil shall be
used.

The plastering shall be of good plaster
clay free from stones and dirt well
predated and evenly applied. The walls
must be well wetted previous to plaster-
ing and the whole to be finished with
a coat of whitewashing. Plastering

The flooring shall be of tamped
clay well tamped and brought
to a true level. After being so to be watered
over with cow dung and water. Flooring

The roof shall behipped having
a rise of $\frac{1}{2}$ the span and made of hip
and jack & common rafters the rafters Roofing

to be placed 3 feet apart from centre
to centre and of rafter machine
made tiles & Chumam borders.

Wood work.

Wood work shall be of good seasoned
Rangpur wood free from flaws and
sap wood and carefully wrought up
to specified scantlings.

Doors and
windows.

The doors to be a single battened
door of 8×6 having frames (4×6) and
fastened to the frame by 3 butt hinges
4" long. The windows shall have double
battened shutters fixed to frames 4×4 by two
small hinges on each side of the windows
lintels and sills to be built into the wall
on each side to the depth of one joist.

The whole materials and workman-
ship to be of the best description and subject
to the approval of the Principal Officer &
District Engineer.

District Engineer
Rangpur 22/1/1917

Mr David Jon
Asst. District Engineer

Mr. M. K. Dasgupta
Supt of Police

1877
D.P.M. Smith & Co.

Specification of
the accompanying plan
and estimate of
-the building the
Crested Rock and
the accompanying
-the building the

1877 Department
Enclosure No. 3

In a letter from
the Insp. Genl of Police
dated Madras 2 Novr
1877 No. 4910

Plan and Estimates
for Constructing
3 Huts at Hossangady
in the South Canara
District -

Masonry

Plastering

Specification Report to accompany Estimate
and Plan for constructing a Police Station
House at Panemangalore in the Coorg
Taluk.

The building is to be rectangular
block measuring out to out over basement
 $26\frac{1}{4} \times 20\frac{3}{4}$ ft and comprising the following
accommodation. Lock up room $12 \times 8\frac{1}{2}$ Office
 $12 \times 12\frac{1}{2}$ and a verandah $26\frac{1}{4}$ by $5\frac{3}{8}$ in
front.

The entire building, foundation, basement and superstructure shall be latite
in Chumam. The latite stones shall be
of best quality not too porous and free
from admixture of white earthy matter.
They shall be neatly trimmed to the
ordinary size used in the D. P. Viz $18 \times 9 \times 6$
and carefully laid in English bond throughout.

The whole of the building shall
be plastered with one coat of plaster,
all joints shall be cleared out to the
depth of $\frac{1}{2}$ before plastering. The plaster
shall consist of freshly and well burnt
shell lime mixed with dry white
clean

Clean sharp river sand in the proportion of one of former to two of latter a sufficiency of water being used to bring the whole to a proper consistency. The plaster shall be evenly laid over the masonry to the depth of $\frac{1}{2}$ an inch.

The flooring is to be laterite jelly in Chumam 6" thick made hard and smooth by being well beaten down and the top throughout to be plastered with 1 coat of Chumam.

The roof shall be hipped having a rise of $\frac{1}{3}$ the span and made of couples cross pieces, hip rafters and jack rafters placed $2\frac{1}{2}$ ft apart from centre to centre and of reapers machine made tiles and Chumam borders.

Wood work shall be of good seasoned Bamboe free from flaws and sap wood and carefully wrought up to specified scantlings.

The lock up room shall be raised with good sound Bamboe planks $\frac{1}{2}$ thick laid diagonally across four joists of 3" by 2" and two joists of 4" by 2" over both sides. The joists be built up into the wall at each end and to be placed with their deepest dimension downwards, these joists to be tarred where they enter the walls and space to be left round them for free circulation of air.

Door & frame.

The door of lock up shall be a single door of 3' x 6' half pannelled and half iron banded with straining pieces bolt and lock as shown in plan. The door to be fastened to the frame 6' x 4' by 4 butt hinges 4' long. The door of station room to be a single pannelled door of 6' x 3' fastened to door frame of 6' x $3\frac{1}{2}$ by 3 butt hinges 4' long.

Ventilator and window.

There shall be 2 ventilators in the lock up room placed $7\frac{1}{2}$ ft above the floor measuring 2' x 4' with iron bars fixed 3' apart from centre to centre as shown in the plan. The frames shall be 4' x 4' of Bamboe wood. The ends of lintels and sills shall be built into walls on either side and the joints shall be mortice and tenon carefully executed. The windows of station room shall be 3' x 4' with shutters hinges &c complete. The whole wood work of the shutters to be of Bentick.

Arm rack.

The arm rack to be made of sound well seasoned jungle wood carefully put together in the ordinary form to hold ten rifles.

Asphalting

The asphalt is to be laid on the surface to be covered between two strips.

strips of wood of $\frac{1}{2}$ thickness fixed to the floor about 2 ft. apart and after being roughly spread with a float must be levelled with a roller, the ends of which should rest on the strips of wood. To give a fine surface to the flooring the asphalt should be finished by rubbing with oil float.

All materials and workmanship to be of the best description and subject to the approval of the Officer in ch. of the Division as well as the District.

District Engr's Office
Bangalore 13 Sept.
1877

W. Davidson
Off. District Engineer
M. S. Parthasarathy
Supt of Police

Ch.

Specification Report to ascertain
how estimate of plan for
constructing a Police Station
Arrive at Pansamangaloe

1877 Department
Enclosure No. 2

In a letter from
the Inspector General,
of Police dated Madras
2^d November 1877 No.
4910

Plan and Estimate
for Constructing a
Police Station House
in the Panemangalore
in the South Canara
District.

35
Specification Report to accompany Estimate
& Plan for Constructing a Police Station
House at Panemangalore.

The building is to be rectangular
block measuring out to out over basement
 $26\frac{1}{2} \times 20\frac{3}{4}$ ft. and comprising the following
accommodation. Lock up room $12 \times 8\frac{1}{2}$ Office 12×12
and a verandah $26\frac{1}{2} \times 5\frac{1}{2}$ in front.

Masonry.
The entire building foundation
basement and superstructure shall be
laid in chunam. The labute stones shall
be of best quality not too porous and
free from admixture of white earthy matter.
They shall be neatly trimmed to
the ordinary size used in the D. P. & Co.
 $18 \times 9 \times 6$ and carefully laid in English bond
throughout.

Plastering.
The whole of the building shall
be plastered with 1 coat of plaster all
joints shall be cleared out to the depth
of $\frac{1}{2}$ before plastering. The plaster shall
consist of freshly and well burnt shell
lime mixed with clean
sharp river sand in the proportion of
one of former to two of latter a sufficient
of water being used to bring the whole
to a proper consistency. The plaster shall be
evenly laid over the masonry to the depth of $\frac{1}{2}$.

The flooring is to be latissajelly in Chumam 6" thick made hard and smooth by being well beaten down and the top throughout to be plastered with 1 coat of Chumam.

Flooring

The roof shall be hipped having a rise of $\frac{1}{3}$ the span and made of Cyples cross pieces hip rafters and gable rafters placed $2\frac{1}{2}$ ft. apart from centre to centre and of reapers machine made tiles & Chumam border.

Roofing

Wood work shall be of good seasoned Bamboe free from flaws and sap wood and carefully wrought up to expel scabbings.

Wood work

The lockup room shall be ceiled with good sound Bamboe plants $1\frac{1}{2}$ " thick laid diagonally, ^{lying on 4 cross} ~~and~~ ^{of 3' x 2' and 2' x 1' of 1' x 1'} ~~and~~ ^{of 3' x 2' and 2' x 1' of 1' x 1'} joints be built 9" into the wall at each end & to be placed with their deepest dimension downwards, these joints to be tased where they enter the walls and space to be left round them for free circulation of air.

Ceiling

The door of lockup shall be a single door 3' x 6' half framed and half iron barred with straining piece bolt and lock as shown in plan

Door & frame

The door to be fastened to the frame 6' x 4' by 4 butt hinges 4" long. The door of station room to be a single framed door 6' x 3' fastened to door frame 6' x 3' by 3 butt hinges 4" long.

There shall be two ventilators in the lockup room placed $7\frac{1}{2}$ ft above the floor measuring 2' x 4' with iron bars fixed 3' apart from centre to centre as shown in the plan. The frames shall be 4' x 4' of Bamboe wood. The ends of limbs and iron shall be built into walls one on either side and the joints shall be mortise and tenon carefully executed. The window of station room shall be 3' x 4' with shutter hinges & complete. The whole wood work of the shutter to be of Bentick.

Ventilators
and
Windows

Arm rack
rifle

The arm rack to be of sound well seasoned junglewood carefully put together in the ordinary form to hold ten rifles.

Asphalting

The asphalt is to be laid on the surface to be covered between two strips of wood $\frac{1}{2}$ " thickness fixed to the floor about 2 ft apart and after being roughly spread with a float over be levelled with a roller, the ends of which should rest on the strips of wood. As you should rest on the flooring the asphalt should

should be finished by rubbing with oil
flask.

All materials and workman-
ship to be of the best description and
subject to the approval of the officer in-
charge of the Division as well as the District

District Engineer's office
Mangalore 13th Sept
1877 } W. Davidson
H. D. Engineer
W. Marshall Major
Super of Police

[Faint, illegible handwritten notes]

1950

1877 Department
Enclosure No. 1

In a letter from
the Inspr Genl of Police
dated Madras 2^d Novr
1877 No. 4910

Plan and Esti-
mate for constructing
a Police Station House
at Golutattoo in the
South Canara District.

Putting & Building 1877/78

Chief Office of the Inspector General of Police,
No. 4910 Madras, 2^d November 1877.

From The Inspector General of Police.

To The Secretary to Government
Public Works Department
Fort Saint George.

Sir,

Enclosures. 4

I have the honor to forward for
the consideration and orders of
Government 3 plans and 3 revised
Estimates &c amounting to
Rupees 3220 together with the
Acting District Engineer cover-
ing letter No. 40 of 13th August last
to the address of the Chief Engineer
accompanied by a Communi-
cation from the Superintendent
of Police South Canara, for the
construction by D. P. W. of the build-
ings noted in the margin in

Station House at Golutattoo Rs 1010
— Do — at Panemangalore — 1010
3 Huts at Hofangady — 1200
Total Rupees 3220

in that District
during 1877/78.

2. The Superintendent of Police raised objections to the plans, and requests sanction for departure from the standard plans whenever necessary. A reference was made to me by the Deputy Chief Engineer regarding new standard plans for Police Stations some time ago, but I am not aware that any change has been decided upon.

3. The original estimates submitted for these buildings for Departmental execution with my letter No 1588 dated 10th April last, amounted to Rupees 1595 against the approved allotment of Rupees 1425 in the lists of 1877/78. It is not therefore practicable to provide for all these buildings according to the scale now proposed during the current Official year and the construction of the Panmangalore Station

Station House only can be undertaken, the others being deferred. Should Government be disposed to follow the established standards in the present instance, I request that sanction may be accorded as shown above and early orders communicated as 7 months of the Official year, have already elapsed.

I have the honor to be,
Sir,
Your most Obedt Servt,

C. M. M.
Inspector General
of Police

Ch. Engr. H. M.
12/2-15/5/44
and put up the
A. M. 6/2/92
yet delayed of

①
12/2-15/5/44
1. 12/2-15/5/44

Ar 9-11 Dec 16-11 R 20-11
Dec 14-11 R 1574

Particulars of Work	Each	Total	Months	Exp'd	Costs	Total	Quantity
Installation with machinery							
Measurement							

Lateral in Chinaman				
Foundation to pillars	6	3	18	3 2 108
Basement to do	6	2 1/4	13 1/2	3 1/4 2 60 3/4
Superstructure to do	6	1 1/2	7 1 1/2	9 1/2 128 1/4
Foundation to retaining walls	1	34	1 1/2	1 51
all formed in front verandah	1	34 1/4	3/4	2 52 1/8
Basement to do	1	6	21	12
Foundation to steps	1	6	2	1 12
Steps above				42 1/8
Total lateral in Chinaman Effect				

Handwall						
Foundation to crop & office back	4	17	42	2	252	
Do - to looking back & front wall	2	7	15	3	2	90
Do - to looking back & front wall	2	7	15	3	2	90
Basement to crop & office back	4	17	45	2	222	
Do - to looking back & front do -	2	8	16	2	74	
Superstructure to crop & office back	4	12	48	1	9	684
Do - to looking back & front do -	2	9	18	1	9	256
Total handwall & feet						1539

C
h
g

Distances

Particulars of work ^(Measurement) ^{Length} ^{Breadth} ^{Depth} ^{Contents} ^{Estimate}

Perimeter of ground 155 1/4

Deductions

Lock up ventilators 2 1/2 12 1/2 2 36

Do. 1 3 1/2 6 27

Office windows 2 2 6 1/2 4 36

Total deduction 99

Total area of ground 145 1/4

Plastering

Pavement all round 1 2 9 1/2 2 18 1/2

Outside of main building do 1 55 1/2

Office wall inside all round 1 52 1/2

Lock up do do 1 42

Sides of door 1 150 9 1/2 142 1/2

Sides & Sills of windows 2 4 22

do of ventilators 3 8 24

Total plastering 179 1/2

Deduction

Door both sides 2 3 6 2 6 36

Windows do 4 12 4 48

Ventilators do 6 4 24 2 48

Total deduction 132

Total plastering 156 1/2

Flooring

Office 1 13 1/2

Lock up 1 8 1/4

Verandah 1 21 1/4 11 1/4 244 1/2

Total flooring 319 1/4

Particulars of work

^(Measurement) ^{Length} ^{Breadth} ^{Depth} ^{Contents} ^{Estimate}

Roofing

Main building 1 57 10 1/2 612 1/4

Verandah 1 28 1/2 6 1/2 185 1/4

Total roofing 798

Timberwork

Wall plates 1 75

Ridge poles 1 10 1/2

Skid rafters 4 14 1/2 58 1/2

122 1/2 1/2 23 1/2

Refrimmers 1 28 1/2 1/2 11 1/2 5 1/2

End beams 2 15 45 5 1/2 1/2 9 3/4

Girders 1 15 3/4 1/2 5 3/8

String post 3 5 1/2 16 1/2 1/2 1 1/2

Other post 4 7 28 3/4 3/4 12 1/4

Corbels 4 1/2 6 7 1/2 1/2 2

Piece for the support of door 1 6

do of windows 2 6 12

do of ventilators 3 7 21

Total timberwork 66 1/2

Ceiling the kitchen 1 13 10 1/2 16 1/4 16 1/4

Planks 1 3 6 3

Scor 3 4 2 2

Ventilators 2 3 4 2

Windows 1 8 1/4

Settling in lock up room 1 13 1/2 11 1/2 1/2 36 1/2

do Office room 1 21 1/4 4 1/2 15 3/4

Settling Verandah 1 21 1/4 4 1/2 15 3/4

Total timberwork 19 1/2

Estimate of the
Manager of the
1877

Estimate of the
Manager of the
1877

R. B. Harlow Major
 Superintendent of Prison
 South Carolina
 S.C.

John C. Harlow
 John C. Harlow
 John C. Harlow
 John C. Harlow
 John C. Harlow

John C. Harlow
 John C. Harlow
 John C. Harlow
 John C. Harlow
 John C. Harlow

John C. Harlow

57
 7-57

Specification of the building to be constructed at the
 station house at Charleston.

The building is to be a rectangular
 block measuring out to the outer pavement
 26 1/2 x 20 1/2 feet and comprising the following
 accommodations: looking room 12 x 9, office
 12 x 10 1/2 and a window 26 1/2 by 5 1/2 in front.

Masonry.

The foundation basement & pillars
 above foundation basement & retaining
 wall & steps shall be of latite in con-
 crete according to plan & estimate. The
 latite & stone shall be of best quality
 not to be exposed to fire from admixture
 of white earthy matter. They shall be
 neatly finished to the ordinary size
 used in the S. C. R. R. viz 18 x 9 x 6 & care-
 fully laid in English bond throughout.
 Bond stones to bind the mud walls shall
 extend beyond pillars. The pillars shall
 be frequently used to keep the pillars
 vertical.

Masonry.

The walls between latite pillars
 shall be raised layer by layer each being
 permitted to harden before adding the
 next.

next. Each layer shall be 18 in depth.
The external & internal surfaces shall
be luted and made truly vertical in
thing but well tempered clayey
soil shall be used. Dimensions shall
be as shown in Plan & Elevation.

The plastering shall be of good
plastic clay free from stones & dirt
well puddled and evenly applied.
The walls must be well wetted pre-
vious to plastering.

Over the plaster two coats of lime
wash made of well burnt newly slaked
shell lime & rice water shall be laid on
evenly. Lime wash to be prepared as follows:
One sack of lime shall be boiled down
to a clear starch to which in the aforesaid
& sack of newly slaked shell lime
freed from all impurities of shell
and grit.

Flooring shall be of latite & silty
in clay well tamped and brought to
a true level afterwards to be washed
over with cow dung & water.

The roof shall be hipped having
a rise of 1/2 the span and made of common

rafters and jack rafters placed 2 1/2 feet
apart from centre to centre & of proper
machine made tiles & e channel borders.
It shall be supported by a strong post
resting on the beams.

Roofwork shall be of good seasoned
Bamboo free from flaws and injured
and carefully wrought up to specified
scantlings.

The lock up room shall be cased
with good seasoned Bamboo planks
1 1/2 inch.

The Door 6 x 3 shall have two shutters
each half pannelled & half wooden &
louvered, fastened to the door frame 6 inch
3/4 thick with 6 butt hinges of iron 4 long.

There shall be two ventilators in the
lock up room placed 6 feet above the
floor as shown in the plan. A centre
piece shall also be added to each
ventilator dividing it into two parts
to receive the shutters if necessary.
The frames shall be 3 x 5 of bamboo
wood. The sides of lute & silk shall
be built with walls one on either side

Roofwork.

Ceiling

Door frames.

Ventilators
& windows.

Plastering

White washing

Flooring

Roofing

and the joints shall be made and then
carefully executed. The windows
shall be of the same but in dimensions
they shall be 3' x 4'. The whole work must
of the shutters to be of Venetian.

All materials shall be of the best
description and the work shall be sub-
ject to the approval of the
officer.

Mangalore -
23rd March 1877
Major
Superintendent of Police
South Canara

Major
Superintendent of Police
South Canara

Specification of work
to accompany Estimate
for the construction
of a Police Station
house at Gollahalli

1246677
3811
7-577

Provincial
Original Works
Civil Buildings
Police Department

Stations
Detailed Estimate No 18 of 1876-77
South Canara District

Work Construction of a Police Station house at
Pine mangalore on plot with machine made tiles.

Particulars of work

	Length	Breadth	Height	Area	Volume	Weight
--	--------	---------	--------	------	--------	--------

Latent in human

Foundation to pillars	6	3	18	3	2	100
Pavement to do	6	2 1/2	18	2 1/2	2	60 1/2
Superstructure to do	6	1 1/2	9	1 1/2	9	128 1/2
Foundation to Retaining wall all round	1	3 1/2	1 1/2	1	1	51
in front corner	1	3 1/2	3/4	2	2	52 1/2
Pavement to do	1	6	2	1	1	12
Foundation to steps	1	6	2	1	1	12
Steps above						42 1/2
Total latent in human						424 1/2

Dead walls

Foundation to Corp & office back wall	4	1 1/2	42	3	2	252
to look up back & front wall	2	7 1/2	15	3	2	90
Pavement to Corp & office back do	4	1 1/2	45	3/4	2	202 1/2
to look up back & front do	2	8 1/2	16 1/2	3/4	2	74 1/4
Superstructure to Corp & office back	4	12	48	1 1/2	9 1/2	684
to look up back & front do	2	9	18	1 1/2	9 1/2	256 1/2
Total dead walls						1559 1/4

Decorations

Look up ventilators	3	4	12	1 1/2	2	36
do do	1	3	3	1 1/2	6	27
Office windows	2	3	6	1 1/2	4	36
Total decorations						99
Total dead walls & decorations						1460 1/4

Particulars of work	Number	Measurements in			Cubits	Total quantity
		Length	Breadth	Depth		
<u>Plastering</u>						
Pavement all round	1	94	2	188		
Outside of main building do	1	55 1/2				
Office wall inside all round	1	52 1/2				
Lockup do do	1	42				
		150	9 1/2	1425		
Sides of door	1	12				
Sides and Sills of windows	2	11	22			
ditto of ventilators	3	8	24			

Total plastering 496 feet - 87

<u>Destruction</u>						
Door both sides	2	3	6	6	36	
Windows do	4	3	12	4	48	
Ventilators do	6	4	24	2	48	

Total destruction 132
Total plastering less destruction 496 - 132 = 364

<u>Flooring</u>						
Office	1	13 1/2				
Lockup	1	8 1/4				
Verandah	1	21 1/4	11 1/4	244 1/2		
	1	23 1/4	4 1/4	105 1/4		

Total flooring 496 feet - 344 1/2 = 151 1/2

<u>Roofing</u>						
Main building	1	57	10 1/2	612 1/2		
Verandah	1	28 1/2	6 1/2	185 1/2		

Total roofing 798

<u>Woodwork</u>						
Wall plates	1	70				
Ridge pole	1	10 1/2				
Hip rafters	4	11 1/2	56 1/2	1/2	23 1/2	
Beams	1	23 1/2	70	1/2	5 1/2	
Is Beams	3	10	45	1/2	9 1/2	

Particulars of work	Number	Measurements in feet			Cub. feet	Total quantity
		Length	Breadth	Depth		
		Each	Total			
1 Proughover						
Guides	1	.	15	$\frac{3}{4}$	$\frac{1}{2}$	$5\frac{3}{8}$
String posts	3	$5\frac{1}{2}$	$16\frac{1}{2}$	$\frac{1}{3}$	$\frac{1}{3}$	$15\frac{1}{6}$
Pillar posts	4	7	28	$\frac{2}{3}$	$\frac{2}{3}$	$12\frac{4}{9}$
Corbels	4	$\frac{1}{2}$	6	$\frac{2}{3}$	$\frac{1}{2}$	2
Piece for the soffit of door	1	-	6			
do do of windows	2	6	12			
do do of ventilators	3	7	21			
			39	1	$\frac{1}{6}$	$6\frac{1}{2}$

Total Proughover 66 1/8

<u>Ceiling the lockup</u>						
Planks	1	13	10	1/8	16 1/4	
Door	1	3		6	1	
Ventilators	2	4		2	3	
Windows	2	3		4	2	
<u>Earthwork</u>						
Excavation lockup room	1	8 1/4				
do office room	1	13 1/2				
		21 1/4	11 1/4	1 1/2	367	
do do	1	24 1/4	4 1/4	1 1/2	157 1/4	

Total Earthwork 524 1/4
Cubic yards 19 1/2

Mangalore
22 December 1906

Subscribed
District Engineer
South Canara
Norton Harlow Major
Supt of Police

1245672
 3811
 8

11-9-97

Specification Report to accompany Estimate
 and plan for constructing a Police Station
 House at Pannangalore in Gulettota

47

The building is to be a rectangular block measuring out to out over basement $25\frac{3}{4} \times 20\frac{1}{4}$ feet and comprising the following accommodation: - Lockup room 12×9 , Office $12 \times 13\frac{1}{2}$ and a verandah $26\frac{1}{2}$ by $5\frac{3}{8}$ in front.

Masonry. The foundation, basement and pillars above foundation, basement and retaining wall, a slope shall be of latente miche nam according to plan & estimate. The latente stones shall be of best quality, not too porous, and free from admixture of white earthy matter. They shall be neatly trimmed to the ordinary size used in the S.P.M. viz $18 \times 9 \times 6$ and carefully laid in English bond throughout. Bond stones to build the mnd walls shall extend beyond pillars. The plumb hole shall be frequently used to keep the pillars vertical.

Bed walls. The walls between latente pillars shall be raised layer by layer, each being permitted to harden before adding the next. Each layer shall be 18" in depth. The external and internal surfaces shall be battled and

Not construction for
 Police Station House at
 Pannangalore in Gulettota
 with masonry masonry

with Cement Distress
 Details Estimate 11-9-97

12 APR 77
3811

Specification Report to
accompany Estimate &
Plan for construction
of Police Station House
at Kundapur
Taluk

17-5-77

Specification report to accompany the Plan & Estimate
for the construction of 3 Huts for Police Constables
attached to the Police Station at Kundurgadi.

Each of the Huts consists of 2 small rooms on
 $8\frac{1}{2} \times 10\frac{1}{2}$ & $5\frac{1}{2} \times 10\frac{1}{2}$ inner dimensions 3 ft broad verandah
on front & rear side of the raised building raised on mud
walls, of $1\frac{1}{2}$ ft in thickness on mud foundation $1\frac{1}{2}$ foot
deep and basement 2 ft high with 4 Corner pillars $1\frac{1}{2} \times 2\frac{1}{2}$
on foundation $2\frac{1}{2} \times 2\frac{1}{2} \times 2$ and basement $2 \times 2 \times 2$ built up
with laterite in Chumam for supporting the roof. Two doors
shown in the plan opposite to each other in the front & rear
side walls are of $2\frac{1}{2} \times 5\frac{1}{2}$ and a small window $1\frac{1}{2} \times 2$ to
the small room is to be placed 2 ft above the floor in
the rear side wall. The whole building to be plastered
with mud throughout and white washed with 2 coats
of freshly burnt Chumam.

The roof is to be of good seasoned jungle wood
rafters of $5 \times 2\frac{1}{2}$, rippers $2\frac{1}{2} \times \frac{3}{4}$ with single tiles resting
on small plates and its centre or ridge pole on King post
having 2 cross beams 8×5 & cantlings. The upper end of
the verandah roofs as shown in the plan is to rest on the
small plates and those of the lower in its wooden posts
on each side of the verandah.

Kundapur
28th February 1977
Inspector of Police
Kundapur Division
S. S. Police

District Engineer's office, Tanjore
Camp Kham 10th December 1877

No. 4233

The District Engineer
Tanjore.

The Chief Engineer
D. P. W. Madras.

As instructed in your Memo No. 4233
of the 3rd instant I have the honor to return
the original estimates for Police Stations at
Golattur, Kessangy and Panmangalore.

I am the honor to be
your most obedt. Servt.

[Signature]

District Engineer
Tanjore.

Roads and Buildings.

From

The District Engineer
South Canara

To The Chief Engineer
Roads & Buildings.

1905

Dated 12th Dec 1905
No. 4 } December 1905

Approved by

I have the pleasure
to forward to C
Police Station & Sub-stations
the original estimates
for the construction of
the same at Police Station, Pene.
Mangalore & Koppangudi.

No. 181 L

3 Plans returned to Inspector
Genl of Police. Vide C.O.
5269, 50. - 9.5.70.

No. 2157/8

Public Works Department.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

Under date the 17th Dec 1905.

Read the following:—

From

The District Engineer } (N.C. No. 15 of 18th May 1905)
South Canara. }
" do } (" " 40 " 13th Aug 05)
" Inspector General } (" " 1910 " 2nd Nov 05)
of Police }
District Engineer } (" " 6th " 12th Dec 05)
South Canara }

His Grace the Governor
in Council declines
to sanction the more
costly designs submitted
by the District Engineer.
The original plans
which have been approved
by the Police Department
will be carried out, the
estimates for which stand
as follows and are
sanctioned

sanctioned accordingly.

Police Station House at Kalitatti Rs. 212.
do at Panmangudi. 525 . 242 } 134/1877-78.
3 Police Huts at Hosangudi. - 525 . 243

Eluf 11/12

This sanction has been
registered as Provincial and
numbered as shown above.

D. L. Leath, Secy.
Super. Genl. of Police
Esq. P. H. Acty. ^{note 3 Pts}
Ind. Dep't.

Dispd. 29-11-77

W. H.

Chas. Brown
11/21/77
Oct. of 1877
PUBLIC WORKS.
Recd 11/21/77

To
the W. & S. South Canada

Dated

Issued

Recd.

Encl.

G. O. *19 Decr* 1877, No *21576*

Nos. *181-182*

Police Station & Photo,
S. Canada Dr Sanctions
for the centon the estimates
approved by the Police Dept
for certain —

But no paper