(1) பக்கங்களின் எண்ணிக்கை 238.

(2) புதுக்கித் திருப்பிய நாள் 10/90

(3) ஆதாரங்குறிப்பவர் சுருக்கொப்பம் 105

தமிழ்நாடு ஆவணக் காப்பகம்.

தமிழ்நாடு அரசு

PWD துறை

105

அரசாணை எண்.
மு. கோப்புத் தாள் எண். 3058

அச்சகம்
பலவகை

நாள் : 14-11-1991 198 .

மடிக்கவோ கண்டபடி கையாளவோ கூடாது

19 Sheets

ஆவண. கா-1—18,006—15-6-87.

3058/1

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil Works.

Read—the following paper :—

From C. MITFORD SMITH, Esq., Officiating Superintending Engineer, I Circle, to the Inspector-General of Registration, Madras, dated Dowlaishweram, 3rd October 1891, No. 1202 G.D.

With reference to your letter No. 4292, dated the 19th September 1891, I have the honour to forward, herewith, a plan and estimates, amounting to Rs. 4,410, for constructing a Sub-Registrar's office at Amalápuram in the Godávari district, and to request that you will be so good as to transmit the same for the sanction of Government.

2. The estimate has been prepared agreeably to the standard design sanctioned in G.O., No. 1320 W., dated the 13th May 1891.

3. An estimate of Rs. 2,600 for the work was sanctioned in G.O., No. 352 W., dated the 1st February 1883. As the estimate now submitted is for a building quite different from that already sanctioned, no comparative statement is forwarded.

4. A sum of Rs. 3,000 has been allotted for the work for expenditure during the current official year, and I therefore request that you will be so good as to obtain the sanction of Government to the estimate as early as practicable.

5. A site-plan also accompanies the estimates.

No. 4996 G.

Submitted for the early sanction of Government.

2. As the Sub-Registrar's office is an important one, the establishment consisting of four clerks, a building on the revised standard design for larger offices approved in G.O., dated 13th May 1891, No. 1320 W., is necessary.

Madras, 23rd October 1891. (Signed) S. SRINIVASA RAGHAVAIYANGAR, Inspector-General of Registration.

To the Chief Secretary to Government.

Approved and transferred to the Public Works Department.

(By Order.)

(Signed) A. BUTTERWORTH, Ag. Under-Secretary.

3rd November 1891.

Order—dated 14th November 1891, No. 3058 W., Public Works.

The estimate, amounting to Rs. 4,410, for constructing a Sub-Registrar's office at Amalápuram in the Godávari district is sanctioned in supersession of the estimate of Rs. 2,600 sanctioned in G.O., No. 352 W., dated 1st February 1883.

2. A sum of Rs. 1,130 was allotted for the work in G.O., No. 2849 W., dated 27th October 1891, in addition to the budget grant of Rs. 3,000.

3. This sanction has been registered as Provincial No. 88 W. of 1891-92 and classified as Civil Buildings, Original Works.

(True Extract.)

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

To the Superintending Engineer, I Circle,
" Examiner, Public Works Accounts, with seven enclosures.
" Judicial Department.

Exd. S. J. Pereira.
Spare Copies

2

3058/2

BUILDINGS AND ROADS.
CIVIL WORKS.

Govt. of {1891} Madras.

PUBLIC WORKS.

Dated November, 14th.

Read. *Encl.*

G.O., 14th Nov. 1891, No. 3058 W.

NOVEMBER.

Sub-Registrar's office

Estimate of Rs. 4,410 for constructing a — at Amalápuram in Godávari district, sanctioned with remarks.

3

3058/16

27TH OCTOBER 1891, No. 2849 W., PUBLIC WORKS.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

General.
Account.

READ—the following paper:—

From G. D. WYBROW, Esq., Superintending Engineer, I Circle, to the Chief Engineer, Public Works Department, dated Dowlaishweram, 7th October 1891, No. 366 G.L.

With reference to your memo. No. 3812 C., dated 24th August 1891, I have the honour to submit, herewith, a statement showing the modifications and additions of allotments required in this circle, and to request that the modifications and additions therein applied for may be sanctioned.

ENCLOSURE.

I Circle.—Statement showing the modifications of allotments required under Imperial Military Civil Buildings, Provincial and Local, during 1890–91.

Fund.	Division.	Departmental head.	Budget head and names of works.	Existing grant.	Modification of allotments applied for.		Modification of allotments proposed.		Remarks.
					Reduction.	Increase.	Reduction.	Increase.	
			IMPERIAL.	RS.	RS.	RS.	RS.	RS.	
			CIVIL WORKS.						
			Telegraph:						
Imperial ..	Godávari, Eastern.	Repairs ..	Lump sum	3,500	2,700	..	..	..	The Executive Engineer states that, in the budget for 1891-92 sent by him last year, Rs. 2,500 were approximately entered for special repairs of signallers' quarters at Cocanada, but the estimate prepared for the work subsequently amounted to Rs. 570, which accounts for the surrender of the greater portion of the allotment.
			PROVINCIAL.						
			CIVIL BUILDINGS.						
			Major.						
Provincial ..	Vizagapatam ..	Original works.	Constructing an office for the Special Assistant Agent at Koraput.	..	..	8,000	..	..	Please see this office letter No. 384 V. Z. of 21st September 1891.
	Godávari, Western.	Do. ..	District Munsif's Court-house at Amalápuram.	7,007	1,200	..	..	..	Probable saving on the estimate.
	Do. ..	Do. ..	Taluk office at Ellore	12,000	12,000	..	..	..	No type design has yet been received; hence the surrender.
	Do. ..	Do. ..	Sub-Registrar's office at Amalápuram.	3,000	..	1,130	..	..	This amount is required to complete the work in this official year. A revised estimate for Rs. 4,130 has been sent to the Inspector-General of Registration on 4th October 1891.
			Minor.						
	Ganjam ..	Do. ..	Lump sum	2,000	..	3,250	..	..	The existing allotment is found insufficient to meet all the requirements of the division. Please see this office remark entered in the application submitted with this office No. 257 G.L. of 30th July 1891, and G.O., No. 2219 W., dated 17th August 1891, thereon.
	Vizagapatam ..	Do. ..	Sub-Registrar's office at Anakápalle ..	2,000	1,000	..	..	..	Revised estimate has lately been submitted to the Inspector-General of Registration. The work has not yet been started for want of a revised sanctioned estimate. It seems that the Executive Engineer is not able to spend more than Rs. 1,000, even if the estimate is sanctioned shortly.
	Do. ..	Do. ..	Altering the roof of the detached building in the compound of the District Court-house at Vizagapatam from terraced to a tiled roof.	..	..	1,390	..	..	Please see this office letter No. 288 V.Z. of 14th August 1891, and G.O., No. 2391 W. of 7th September 1891 thereon.
	Godávari, Western.	Do. ..	Lump sum	200	..	420	..	..	Required for making wooden record-racks for the Taluk office at Narsápur.
			COMMUNICATIONS.	26,207	14,200	14,190	..	..	
			Major.						
	Ganjam ..	Original works.	Constructing Mahasinghi bridge ..	..	..	15,000	..	..	Please see G.O., No. 2169 W., dated 12th August 1891.
	Do. ..	Do. ..	Road from Hiramandalam to Battili ..	8,000	3,000	..	..	..	The Division officer states that no more than Rs. 5,000 can be spent this year.
	Do. ..	Do. ..	Constructing road from Tekkali to Anantagiri.	..	..	650	..	..	This is required to pay for the work already executed.
	Do. ..	Do. ..	Constructing road from Kallikót to Boirani.	..	..	400	..	..	Do. do.
	Vizagapatam ..	Do. ..	Constructing new Potinghi Ghát road.	..	..	1,000	..	..	Work nearly completed. The amount applied for is to cover the expenditure of this year.
				8,000	3,000	17,050	..	..	
	Do. ..	Repairs ..	Lump sum	12,000	..	12,000	..	..	The amount allotted in the budget is insufficient to meet the expenditure incurred. Please see application submitted with this office No. 257 G.L. of 30th July 1891, and G.O., No. 2219 W. of 17th August 1891 thereon.
			EXCLUDED LOCAL.						
			Miscellaneous Public Improvements.						
Local ..	Ganjam ..	Original works.	Lump sum	1,030	500	..	..	..	As funds have been appropriated for every work sanctioned during the year, the original budget grant is not necessary; hence the surrender.
			INCORPORATED LOCAL.						
			Communications.						
	Godávari, Eastern.	Original works.	Widening and gravelling the Godávari left embankment in the first four miles below the anicut for adoption as a road.	5,000	..	3,480	..	..	The additional grant applied for is required for completing the work. Please see this office application No. 1018 G.D. of 28th August 1891.
	Godávari, Western.	Do. ..	Constructing an iron-girder bridge at the 20th mile of the Khandavilli road.	8,950	3,050	..	..	..	The Executive Engineer states that Rs. 2,000 were given in excess of the required allotment and that he cannot spend more than Rs. 5,900 during the current official year of the estimate (Rs. 6,950); hence the surrender. The existing grant for the work according to G.O., No. 1668 W., dated the 20th June 1891, is Rs. 6,950, but the Executive Engineer states that the Examiner, Public Works Accounts, has, in the audit notes for July 1891, altered the grant to Rs. 8,950 as per G.O., No. 801 W., dated the 19th March 1891.

N.B.—Names of works should be entered only in the case of Major Works, if any.

DOWLAISHWERAM,
9th October 1891.

(Signed) G. D. WYBROW,
Superintending Engineer, I Circle.

4

17/3058

ORDER—dated 27th October 1891, No. 2849 W., Public Works.

The sum of Rs. 2,700 surrendered from the grant to the Godávari Eastern division under Imperial Civil Works, Telegraph, Repairs, is resumed and held in reserve.

2. The following surrenders are resumed and credited to the Provincial reserve with the Government :—

	RS.
(1) District Munsif's Court at Amalápuram	1,200
(2) Sub-Registrar's office at Anakápalle	1,000
(3) Road from Hiramandalam to Battili	3,000
Total ...	5,200

3. The following appropriations are made from the Provincial reserve :—

	RS.
(1) Sub-Registrar's office at Amalápuram	1,130
(2) Civil Buildings, Minor Works, Godávari Western division ...	420
(3) Constructing road from Tekkali to Anantagiri	650
(4) Constructing road from Kallikót to Boirani	400
(5) New Potinghi Ghât	1,000
Total ...	3,600

4. The allotments required for the undermentioned works have already been provided in G.Os. Nos. 2706 W. and 2718 W., dated 13th and 14th October 1891, respectively :—

(1) Office for the Special Assistant Agent at Koraput.
(2) Civil Buildings, Minor Works, Ganjam division.
(3) Do. Vizagapatam division.
(4) Constructing a bridge at Mahasinghi.
(5) Communications, Repairs, Vizagapatam division.

5. The surrender of the entire grant of Rs. 12,000 for the Taluk office at Ellore cannot be accepted. Arrangements should be made for the immediate collection of materials and an estimate for the work should be submitted as soon as the revised type design for Taluk offices is received.

6. The sum of Rs. 500, or Rs. 622 inclusive of percentage charges for Establishment and Tools and Plant, surrendered from the budget grant for fixing a lightning conductor to the Calingapatam lighthouse, is resumed and replaced at the disposal of the Financial Department.

7. The President, District Board, Godávari, has been requested to procure the necessary allotment of funds for widening and gravelling the Godávari left embankment—*vide* G.O., No 2694 W., dated 10th October 1891.

8. The sum of Rs. 3,050, or Rs. 3,798 inclusive of the usual centage charges, surrendered from the grant for constructing an iron-girder bridge at the 20th mile of the Khandavilli road in the Godávari district, is resumed and replaced at the disposal of the Local and Municipal Department.

(True Extract.)

(Signed) J. PENNYCUICK, Colonel, R.E.,
Secretary to Govt., P.W.D.

To the Superintending Engineer, I Circle.
" Examiner, Public Works Accounts.
" Financial Department.
" Local and Municipal Department.

Exd A. Aubert.
Spare Copies

5

3058/10

Estimate form—Detail measurements—*cont.*

Detail of work.	Number.	Measurements in feet. Length.	Breadth.	Depth.	Area or contents.	Total quantity of each description of work.
1	2	3	4	5	6	7
Wood-oiling roof timbers—						
Beams	2	14 0	...	2 6	70	
Joists	54	13 6	...	1 5	1,033	
Do.	18	7 0	...	0 11	116	
Total, Square feet ...	...	...	...	...	...	1,219

Estimate form—Abstract.

Quantity	Description of work.	Rate.	Per.	Amount.	Total.
1	2	3	4	5	6
		RS.		RS.	RS.
3,172 C. ft.	Excavation for foundations (rate to include refilling of trenches after foundations are laid)	...	1,000 C. ft.	...	...
1,250 "	Concrete	...	100 "	...	...
1,928 "	Brickwork in foundations and basement ..	...	"	...	...
3,811 "	Brickwork in superstructure	...	"	...	...
1,326 "	Earth-filling in basement	...	1,000 C. ft.	...	...
162 "	Archwork	...	100 "	...	...
749 Sq. ft.	Cuddapah slabs for cornice	...	Sq. feet.	...	...
136 C. ft.	Teakwood wrought and put up	...	C. feet.	...	...
4 "	Stone slabs under beams	...	"	...	...
64 Sq. ft	Panelled doors with frames and iron fastenings including rim locks ...	...	Sq. feet.	...	...
88 "	Venetian windows with frames, iron bars and inner glazed shutters	...	"	...	...
70 "	Venetian windows with frames and iron bars	...	"	...	...
63 "	Swing ventilators with frames, iron bars and glazed sashes...	...	100 Sq. ft.	...	...
1,067 "	Terrace roofing	...	"	...	...
678 "	Flooring	...	"	...	...
368 "	Flooring with asphalte ¾ inch thick over a bed of concrete	...	100 Sq. ft.	...	...
2,893 "	Plastering interior with 2 coats of chunam	...	"	...	...
3,248 "	Pointing exterior	...	"	...	...
1,035 "	Painting with 3 coats of Carson's paint ..	...	"	...	...
1,219 "	Wood-oiling roof timbers 3 coats ...	...	"	...	...
	Petty supervision at 2½ per cent., contingencies at 5 per cent	...	...	...	...
	Grand Total of estimate ...	...	...	...	...

CHEPÂK,
17th January 1891.

(Signed) H. IRWIN,
Consulting Architect to Government.

REVISED standard design for a Sub-Registrar's office with tiled roofing (for the larger class of office).

GENERAL SPECIFICATION.

Foundations.—A depth of 4 feet is provided in the quantities, but this should be settled locally in accordance with the nature of the soil.

Walling.—The walls should be carried up in English bond according to the thicknesses shown in the drawing.

Woodwork.—To be of Burma teak, well seasoned.

Doors.—The entrance and record-room to have strong battened doors fitted with good locks.

Windows.—To be of venetians with $\frac{3}{4}$ inch iron bars fixed diagonally; all windows not protected by verandahs to have glazed inner shutters.

Ventilators.—To be of glass to swing on strong side pivots and $\frac{3}{4}$ inch square iron bars laid horizontally as shown in details. The sills of all windows should slope outwards with a small opening under the frame to allow water to flow out. All doors and windows to be provided with strong iron bolts and hinges and hooks for fastening when opened, and the venetians to have wooden buttons for securing when closed.

Roofing.—The roof will be of the usual flat and pan tiles or Mangalore tiles; in the latter case the rafters should be spaced about 2′ 6″ apart, centre to centre, and a ceiling of $\frac{1}{2}$ inch planking provided. The valleys should be laid with lead sheeting $\frac{1}{16}$ inch thick and 2 feet wide, placed under the pan tiles.

Flooring.—The floor may be of Cuddapah slabs or square bricks. The record-room should be floored with asphalte, $\frac{3}{4}$ inch thick over a bed of concrete 4 inches thick.

Interior and exterior finishing.—The interior of the building should be plastered and rubbed smooth or plastered and whitewashed. Where good bricks or stone is available, the exterior should be pointed, otherwise plastered.

If the soil is damp river sand to a depth of 1 foot at least should be laid below the flooring, and the interior walls to a depth of about 3 feet all round plastered with Portland cement half an inch thick. The exterior plinth should also be plastered with cement.

Painting.—The doors and windows to be painted with three coats of Carson's oak paint and the roof timbers stained with three coats of wood-oil.

CHEPÂK,
17th January 1891.

(Signed) H. IRWIN,
Consulting Architect to Government.

ENCLOSURE.

ESTIMATE form—Detail measurements.

Detail of work.	Number.	Measurements in feet.			Area or contents.	Total quantity of each description of work.
		Length.	Breadth.	Depth.		
1	2	3	4	5	6	7
Excavation for foundations—						
Central portion, longitudinal walls	2	19 6	4 0	4 0	} 2,688	
Ends	2	64 6	4 0	4 0		
Partition	1	9 6	3 0	4 0		
Verandah wall	1	19 6	3 6	4 0	114	
Steps	1	21 6	3 0	1 6	97	
Total, Cubic feet ...	...	...	...	...	...	3,172

Estimate form—Detail measurements—*cont.*

Detail of work.	Number.	Measurements in feet.			Area or contents.	Total quantity of each description of work.
		Length.	Breadth.	Depth.		
1	2	3	4	5	6	7
Concrete in foundations—						
Central portion, longitudinal walls	2	19 6	4 0	1 6	} 1,008	
Ends	2	64 6	4 0	1 6		
Partition	1	9 6	3 0	1 6	43	
Verandah wall	1	19 6	3 6	1 6	102	
Steps	1	21 6	3 0	1 6	97	
Total, Cubic feet ...	...	...	...	...	...	1,250
Brickwork in foundations and basement—						
Footing course—						
Central portion, longitudinal wall	2	21 0	2 6	1 0	} 420	
Ends	2	63 0	2 6	1 0		
Partition	1	11 0	2 1½	1 0	47	
Verandah wall	1	21 0	2 3			
Above footing to floor level, central portion, longitudinal walls	2	21 6	2 0	3 6	301	
Ends	2	62 6	2 0	3 6	875	
Partition	1	11 6	1 7½	3 6	65	
Verandah wall	1	21 6	1 9	3 6	132	
Steps	1	21 6	3 0	1 0	65	
Total, Cubic feet ...	...	...	...	...	...	1,928
Brickwork in superstructure—						
Central portion, longitudinal walls	2	22 0	1 6	13 0	} 3,276	
Ends	2	62 0	1 6	13 0		
Partition	1	12 0	1 1½	13 0	176	
Do. gable	1	12 0	1 1½	2 0	27	
Gables	4	15 0	1 6	2 6	225	
Verandah piers	3	1 3	1 3	6 6	30	
Coping	1	1 6	1 6	0 9	2	
	...	...	...	...	...	3,736
Deductions—						
Door	1	4 0	1 6	8 0	48	
Do.	1	4 0	1 1½	8 0	36	
Windows	9	3 6	1 6	5 0	236	
Ventilators...	6	3 6	1 6	3 0	95	
Archwork as per detail	...	...	...	...	128	543
Total, Cubic feet ...	...	...	...	...	...	3,193
Earth-filling in basement—						
Rooms at sides	2	21 6	11 6	1 6	} 1,157	
Do. at centre	1	8 3	11 6	1 6		
Do. at do.	1	15 7½	11 6	1 6	169	
Verandah	1	21 6	5 3			
Total, Cubic feet ...	...	...	...	...	...	1,326

6

3058/11

Estimate form—Detail measurements—*cont.*

Detail of work.	Number.	Measurements in feet. Length.	Breadth.	Depth.	Area or contents.	Total quantity of each description of work.
1	2	3	4	5	6	7
Archwork—						
Over door	1	5 0	1 6	1 1½	8	
Do.	1	5 0	1 1½	1 1½	6	
Over windows and ventilators ...	15	4 6	1 6	1 1½	114	
Total, Cubic feet ...	...	...	...	...	...	128
Teakwood—						
Ridge	1	37 0	0 3	0 5	10	
Do.	2	28 0	0 3	0 5		
Wall plates	2	25 0	0 3	0 3		
Do.	2	28 0	0 3	0 3	9	
Do.	2	12 0	0 3	0 3		
Do.	2	4 0	0 3	0 3		
Bressummers	3	8 0	0 6	0 5	5	
Plates under do.	4	1 3	1 3	0 2	1	
Hip rafters	4	15 0	0 3	0 5	6	
Common rafters	70	11 0	0 2½	0 4		
Do. next verandah ...	14	9 6	0 2½	0 4		
Do. verandah ...	16	11 6	0 2½	0 4		
Jack rafters	8	8 6	0 2½	0 4		
Do.	8	7 6	0 2½	0 4	110	
Do.	8	6 0	0 2½	0 4		
Do.	8	4 0	0 2½	0 4		
Collar pieces	38	7 0	0 2½	0 4		
Barge boards	8	11 6	0 1	0 6	4	
Do. pieces to cover wall plates...	8	0 10	0 1	0 6		
Do. do. ridge ...	4	0 10	0 1	0 7½	1	
Eave boards	2	28 0	0	0 5		
Do.	1	19 6	0	0 5		
Do.	1	22 0	0	0 5	3	
Do.	2	8 0	0	0 5		
Do.	2	2 0	0	0 5		
Total, Cubic feet ..	...	...	...	...	...	149
Panelled doors with frames and iron fastenings complete ...	2	4 0	...	8 0	64	
Total, Square feet ...	...	...	...	...	...	64
Venetian windows with frames ¾ inch square iron bars and inner glazed shutters	5	3 6	...	5 0	88	
Total, Square feet ...	...	...	...	...	...	88
Venetian windows with frames and iron bars	4	3 6	...	5 0	70	
Total, Square feet ...	...	...	...	...	...	70
Swing ventilators with glass and ¾ inch square iron bars across ...	6	3 6	...	3 0	63	
Total, Square feet ...	...	...	...	...	...	63

Estimate form—Detail measurements—*cont.*

Detail of work.	Number.	Measurements in feet. Length.	Breadth.	Depth.	Area or contents.	Total quantity of each description of work.
1	2	3	4	5	6	7
Roofing with flat and pan tiles and teak reepers complete—						
Central portion	1	22 0	...	31 0	682	
Ends	2	28 0	...	22 0	1,232	
Total, Square feet ...	...	...	...	...	...	1,914
Lead sheeting $\frac{1}{16}$ inch thick for valleys—						lb.
Allowing for overlapping at joints	4	17 0	...	2 0	136 × 3·7 = 503	
Flooring—						
Clerks' room	1	22 0	...	12 0	264	
Registrar's room	1	15 7½	...	12 0	188	
Verandah	1	22 0	...	7 3	160	
Door-piece	1	4 0	...	1 6	6	
Steps	1	21 6	...	3 0	65	
Deduct for verandah piers ...	3	1 3	...	1 3	5	683
Total, Square feet ...	...	..	...	...	...	5
Flooring with asphalte ¾ inch thick over a 4-inch bed of concrete—						678
Record-room	1	22 0	...	12 0	264	
Do.	1	8 3	...	12 0	99	
Door-piece	1	4 0	...	1 1½	5	
Total, Square feet ...	...	...	...	...	...	368
Plastering interior with 2 coats of chunam—						
Clerks' and Registrar's room ...	...	99 3	...	13 0	2,389	
Record-room	...	84 6	...	13 0	144	
Gables	6	12 0	...	2 0	20	
Door jambs and soffits ...	1	20 0	...	1 0	13	
Do. do.	1	20 0	...	0 7½	153	
Window do.	9	17 0	...	1 0	78	
Do. do.	6	13 0	...	1 0	96	
Deductions—						2,797
Doors	3	4 0	...	8 0	158	
Windows	9	3 6	...	5 0	63	317
Ventilators	6	3 6	...	3 0		
Total, Square feet ...	...	...	...	..	...	2,480
Pointing exterior—						
Plinth	...	162 0	...	2 3	365	
Walls	...	174 0	...	13 0	2,262	
Pillars	2	5 0	...	7 6	94	
Do.	2	1 3	...	7 6		
Gables	4	15 0	...	2 6	150	
	...	...	...	...	...	2,871

Estimate form—Detail measurements—*cont.*

Detail of work.	Number.	Measurements in feet.			Area or contents.	Total quantity of each description of work.
		Length.	Breadth.	Depth.		
1	2	3	4	5	6	7
Deductions—						
Doors	1	4 0	...	8 0	32	
Windows	9	3 6	...	5 0	158	
Ventilators	6	3 6	...	3 0	63	253
Total, Square feet ...	...	...	...	...	...	2,618
Painting doors and windows with 3 coats Carson's paint—						
Doors ... ... 2 ×	2	4 0	...	8 0	128	
Windows with glazed shutters 5 ×	5	3 6	...	5 0	438	
Windows without glazed shutters 4 ×	4	3 6	...	5 0	280	
Ventilators ... ... 3 ×	6	3 6	...	3 0	189	
Barge boards	8	12 0	...	0 8	64	
Eave boards	...	117 6	...	0 10½	103	
Total, Square feet ...	...	...	...	...	..	1,202
Wood-oiling roof timbers—						
Ridges	...	93 0	...	1 1	101	
Wall plates	...	138 0	...	1 0	138	
Bressummer	...	24 0	...	1 10	44	
Hip rafters	...	60 0	...	1 4	80	
Common and jack rafters ...	...	1581 0	...	1 1	1,713	
Total, Square feet ...	...	...	...	...	...	2,076

Estimate form—Abstract.

Quantity.	Description of work.	Rate.	Per.	Amount.	Total.
1	2	3	4	5	6
3,172 C. feet.	Excavation for foundations (rate to include refilling of trenches after foundations are laid)	Rs. ...	1,000 C. ft.	Rs. ...	Rs. ...
1,250 „	Concrete	...	100 C. ft.	...	...
1,928 „	Brickwork in foundations and basement.	...	„	...	...
3,193 „	Brickwork in superstructure	...	„	...	...
1,326 „	Earth-filling in basement	...	1,000 C. ft.	...	...
128 „	Archwork	...	100 C. ft.	...	...
149 „	Teakwood wrought and put up ...	...	C. feet.	...	...
64 Sq. feet	Panelled doors with frames and iron fastenings including rim locks ...	...	Sq. feet.	...	...
88 „	Venetian windows with frames, iron bars and inner glazed shutters . ..	...	„	...	...
70 „	Venetian windows with frames and iron bars	...	„	...	...
63 „	Swing ventilators with frames, iron bars and glazed sashes	...	„	...	...
1,914 „	Roofing with flat and pan tiles and teak reepers complete	...	100 Sq. ft.	...	...
503 Lb.	Lead sheeting for valleys	...	Lb.	...	...

Estimate form—Abstract—*cont.*

Quantity.	Description of work.	Rate.	Per.	Amount.	Total.
1	2	3	4	5	6
678 Sq. feet.	Flooring	Rs. ...	100 Sq. ft.	Rs. ...	Rs. ...
368 „	Flooring with asphalte ¾ inch thick over a bed of concrete	...	„	...	...
2,480 „	Plastering interior with chunam, 2 coats of chunam	...	„	...	...
2,618 „	Pointing exterior	...	„	...	...
1,202 „	Painting with 3 coats of Carson's paint...	...	„	...	...
2,076 „	Wood-oiling roof timbers, 3 coats ...	...	...	...	...
	Petty supervision at 2½ per cent. ...	...	...	...	...
	Contingencies at 5 per cent.	...	..	...	...
	Total ...	...	..	...	...
	Grand Total of estimate ...	...	...	...	...

Chepâk,
17th January 1891.

(Signed) H. IRWIN,
Consulting Architect to Government.

8.

3058/13

GENERAL.
ACCOUNT.

Govt. of {1891} Madras.

PUBLIC WORKS.

Dated October 27th.

Recd. *Encl.*

G.O., 27th Oct. 1891, No. 2849 W.

OCTCBER.

Funds

Orders on a statement submitted by the Superintending Engineer showing the modifications and additions of allotments required in the V Circle.

1D

30588/14

13TH MAY 1891, No. 1320 W., PUBLIC WORKS.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil Works.

READ—the following papers :—

From H. IRWIN, Esq., C.I.E., Consulting Architect to the Government of Madras, to the Chief Engineer, Public Works Department, dated Chepâk, 17th January 1891, No. 3064.

With reference to G.O., No. 2177 W., dated the 11th August 1890, I have the honour to submit revised standard plans with quantities for Sub-Registrars' offices with terrace and tile roofing prepared in communication with the Inspector-General of Registration.

G.O., dated 22nd April 1891, No. 791, Judicial.

Read—the following papers :—

Memorandum from the Public Works Department, dated 22nd January 1891, No. 356 C.

From M.R.Ry. S. SRINIVASA RAGHAVAIYANGAR, Avargal, Dewan Bahadur, Inspector-General of Registration, Madras, to the Chief Secretary to Government, dated Koilpatti, 2nd March 1891, T. No. 553.

Adverting to Government reference, dated 13th ultimo, on Current No. 375, Judicial, forwarding, for my remarks, revised standard designs for the *larger* Sub-Registry offices prepared by the Consulting Architect to Government, I have the honour to state that the accommodation provided is suitable and will meet requirements.

2. The type designs sanctioned in G.O., dated 21st July 1888, No. 2230 W., may be followed in respect of the Sub-Registry offices where the clerical establishment consists of three clerks and less.

3. As regards the District Registrars' offices, the question of transferring the records of Sub-Registry offices to the Registrars' offices is still under consideration, and as larger accommodation will have to be provided, some alteration in the sanctioned designs will become necessary. I shall report on this subject when I submit my proposals for the transfer of the records of the sub-offices to the district offices.

4. I beg to return the enclosures received with the Government reference.

From M.R.Ry. S. SRINIVASA RAGHAVAIYANGAR, Avargal, Dewan Bahadur, Inspector-General of Registration, Madras, to the Chief Secretary to Government, dated Madras, 10th April 1891, G. No. 846.

Adverting to the Government reference on No. 1081, dated 7th April 1891, I have the honour to state that the scheme for the transfer of records of the Sub-Registrars' offices to the Registrars' offices will not obviate the necessity for providing increased accommodation in the larger sub-offices, as such increased accommodation is

required on account of the large number of clerks which it has been found necessary to employ of late years owing to the rapid growth of registrations. Moreover, 20 years' records will always have to be retained in the sub-offices and the space allowed for records in the revised standard plan now before Government is not more than is required to hold them, especially when it is remembered that the records of each year increase as compared with those of the previous year.

Order—dated 22nd April 1891, No. 791, Judicial.

Transferred to the Public Works Department with an intimation that Government approves of the revised type designs for the larger class of Sub-registry offices.

(True Extract.)

(Signed) J. F. PRICE,
Chief Secretary.

Order—dated 13th May 1891, No. 1320 W., Public Works.

The revised type plans and quantities submitted by the Consulting Architect are approved for the larger Sub-Registrars' offices, viz., those accommodating more than three clerks. In cases where the establishment is smaller, the design circulated with G.O., No. 2230 W., dated 21st July 1888, should be adopted.

2. The type designs for Registrars' offices sanctioned in G.O., No. 120 W., dated 14th June 1882, are unaffected by the present order.

(True Extract.)

(Signed) A. C. SMITH, Lieut.-Colonel, R.E.,
Ag. Joint Secy. to Govt., P.W.D.

To Superintending Engineers,
To the Consulting Architect to Government,
" Judicial Department,
} with designs and quantities.

Exd. A. Aubert.
Spare Copies

11

2058/8

Annexure to G.O., No. 1320 W., dated 13th May 1891.

Revised standard design for Sub-Registrar's office with terraced roofing (for the larger class of office).

General Specification.

Foundations.—A depth of 4 feet is provided in the quantities, but this should be settled locally in accordance with the nature of the soil.

Walling.—The walls should be carried up in English bond according to the thickness shown in the drawing.

Cuddapah slabs for cornice.—The Cuddapah slabs for the cornice should project about 2 feet from the face of the wall; the joints should be dressed so that the slabs may fit close together and pointed. Where Cuddapah or any other suitable stone slabs are not procurable, the cornice may be finished by projecting the joists and carrying the terrace over it, as shown in the detailed drawing of parapet.

Woodwork.—To be of Burma teak, well seasoned.

Doors.—The entrance and record-room to have strong battened doors fitted with good locks.

Windows.—To be of venetians with $\frac{3}{4}$ inch iron bars fixed diagonally; all windows not protected by verandahs to have glazed inner shutters.

Ventilators.—To be of glass to swing on strong side pivots and $\frac{3}{4}$ inch square iron bars laid horizontally as shown in details. The sills of all windows should slope outwards with a small opening under the frame to allow water to flow out. All doors and windows to be provided with strong iron bolts and hinges and hooks for fastening when opened, and the venetians to have wooden buttons for securing when closed.

Roofing.—To be of "pucka terracing," care being taken to make proper slopes towards the holes in the parapets; the water will flow over the slabs and fall clear of the building.

Flooring.—The floor may be of Cuddapah slabs or square bricks. The record-room should be floored with asphalte $\frac{3}{4}$ inch thick over a bed of concrete 4 inches thick.

Interior and exterior finishing.—The interior of the building should be plastered and rubbed smooth or plastered and whitewashed. Where good bricks or stone is available, the exterior should be pointed, otherwise plastered.

If the soil is damp river sand to a depth of 1 foot at least should be laid below the flooring and the interior walls to a depth of about 3 feet all round plastered with Portland cement half an inch thick. The exterior plinth should also be plastered with cement.

Painting.—The doors and windows to be painted with three coats of Carson's oak paint and the roof timbers stained with three coats of wood-oil.

Chepâk,
17th January 1891.

(Signed) H. IRWIN,
Consulting Architect to Government.

ENCLOSURES.

ESTIMATE form—Detail measurements.

Detail of work.	Number.	Measurements in feet. Length.	Breadth.	Depth.	Area or contents.	Total quantity of each description of work.
1	2	3	4	5	6	7
Excavation for foundations—						
Central portion, longitudinal walls	2	19 6	4 0	4 0	2,688	
Ends	2	64 6	4 0	4 0		
Partition	1	9 6	3 0	4 0	114	
Verandah wall	1	19 6	3 6	4 0	273	
Steps	1	21 6	3 0	1 6	97	
Total, Cubic feet	...	...	...	...	...	3,172
Concrete in foundations—						
Central portion, longitudinal walls	2	19 6	4 0	1 6	1,008	
Ends	2	64 6	4 0	1 6		
Partition	1	9 6	3 0	1 6	43	
Verandah wall	1	19 6	3 6	1 6	102	
Steps	1	21 6	3 0	1 6	97	
Total, Cubic feet	...	...	...	...	...	1,250
Brickwork in foundations and basement—Footing course—						
Central portion, longitudinal walls	2	21 0	2 6	1 0	420	
Ends	2	63 0	2 6	1 0		
Partitions	1	11 0	2 1½	1 0	23	
Verandah wall	1	21 0	2 3	1 0	47	
Above footing to floor level, central portion, longitudinal walls	2	21 6	2 0	3 6	301	
Ends	2	62 6	2 0	3 6	875	
Partitions	1	11 6	1 7½	3 6	65	
Verandah wall	1	21 6	1 9	3 6	132	
Steps	1	21 6	3 0	1 0	65	
Total, Cubic feet	...	...	...	...	...	1,928
Brickwork in superstructure—						
Central portion, longitudinal wall, including parapet	2	22 0	1 6	15 0	990	
Ends, outer walls, do.	2	62 0	1 6	15 0	2,790	
Partitions do.	1	12 0	1 1½	15 0	203	
Binding wall over beams	2	12 0	0 9	1 0	18	
Verandah piers	3	1 3	1 3	6 6	30	
Wall over piers	1	22 0	1 3	11 6	316	
Brackets under Cuddapah slab cornice	55	0 4½	0 2	1 2	1	
Between do. do.	...	201 0	0 3	0 9½	40	
						4,388
Deductions—						
Door	1	4 0	1 6	8 0	48	
Do.	1	4 0	1 1½	8 0	36	
Windows	9	3 6	1 6	5 0	236	
Ventilators	6	3 6	1 6	3 0	95	
Archwork as per details	...	...	...	...	162	577
Total, Cubic feet	...	...	...	...	...	3,811

Estimate form—Detail measurements—*cont.*

Detail of work.	Number.	Measurements in feet. Length.	Breadth.	Depth.	Area or contents.	Total quantity of each description of work.
1	2	3	4	5	6	7
Earth-filling in basement—						
Rooms at sides	2	21 6	11 6	1 6	1,157	
Do. in centre	1	8 3	11 6	1 6		
Do. do.	1	15 7½	11 6	1 6	169	
Verandah	1	21 6	5 3*	1 6		
Total, Cubic feet	...	...	...	...	...	1,326
Archwork—						
For verandah	3	8 0	1 3	1 1½	34	
Over door	1	5 0	1 6	1 1½	8	
Do.	1	5 0	1 1½	1 1½	6	
Over windows and ventilators	15	4 6	1 6	1 1½	114	
Total, Cubic feet	...	...	...	...	...	162
Cuddapah slabs for cornice	...	214 0	...	3 6	749	
Total, Square feet	...	...	...	...	...	749
Teakwood—						
Beams	2	14 0	0 10	0 10	19	
Joists about 15" centres	54	13 6	0 3	0 7	106	
Do. for verandah	18	7 0	0 3	0 4	11	
Total, Cubic feet	...	...	...	...	...	136
Stone slabs under beams	4	1 6	1 6	0 5	4	
Total, Cubic feet	...	...	...	...	...	4
Panelled doors with frames and iron fastenings	2	4 0	...	8 0	64	
Total, Square feet	...	...	...	...	...	64
Venetian windows with frames, iron bars and inner glazed shutters	5	3 6	...	5 0	88	
Total, Square feet	...	...	...	...	...	88
Venetian windows with frames and iron bars	4	3 6	...	5 0	70	
Total, Square feet	...	...	...	...	...	70
Swing ventilators with glass and iron bars across	6	3 6	...	3 0	63	
Total, Square feet	...	...	...	...	...	63
Terrace roofing—						
Over sides	2	23 0	...	13 0	598	
Do. centre	1	25 0	...	13 0	325	
Do. verandah	1	23 0	...	6 3	144	
Total, Square feet	...	...	...	...	...	1,067

Estimate form—Detail measurements—*cont.*

Detail of work.	Number.	Measurements in feet.			Area or contents.	Total quantity of each description of work.
		Length.	Breadth.	Depth.		
1	2	3	4	5	6	7
Flooring—						
Clerk's room	1	22 0	...	12 0	264	
Registrar's room	1	15 7½	...	12 0	188	
Verandah	1	22 0	...	7 3	160	
Door-piece	1	4 0	...	1 6	6	
Steps	1	21 6	...	3 0	65	
						683
Deduct for verandah piers ...	3	1 3	...	1 3	5	5
Total, Square feet ...	...	...	...	...	...	678
Flooring with asphalte ¾ inch thick on a 4-inch bed of concrete—						
Record-rooms	1	22 0	...	12 0	264	
Do.	1	8 3	...	12 0	99	
Door-piece	1	4 0	...	1 1½	5	
Total, Square feet ...	...	...	...	...	...	368
Plastering with 2 coats of chunam—						
Interior walls	...	183 9	...	13 0	2,389	
Upper and interior portion of parapet	...	183 9	...	2 6	459	
Binding walls	1	12 0	...	3 1½	38	
Do.	2	12 0	...	2 6	60	
Door jambs and soffits	1	20 0	...	1 0	20	
Do.	1	20 0	...	0 7½	13	
Window do. ...	9	17 0	...	1 0	153	
Ventilator do.	6	13 0	...	1 0	78	
						3,210
Deductions—						
Doors	3	4 0	...	8 0	96	
Windows	9	3 6	...	5 0	158	
Ventilators	6	3 6	...	3 0	63	317
Total, Square feet ...	...	...	...	...	...	2,893
Pointing exterior—						
Plinth	...	162 0	...	2 3	365	
Walls	...	160 0	...	15 0	2,400	
Verandah inside	...	55 6	...	11 0	611	
						3,376
Deductions—						
Verandah arches	...	18 3	...	7 0	128	128
Total, Square feet ...	...	...	...	...	...	3,248
Painting doors and windows with 3 coats Carson's oak paint—						
Panel doors ... ... 2×	2	4 0	...	8 0	128	
Venetian windows with glazed shutters and iron bars 5×	5	3 6	...	5 0	438	
Venetian windows with iron bars ... ... 4×	4	3 6	...	5 0	280	
Glazed ventilators with iron bars ... ... 3×	6	3 6	...	3 0	189	
Total, Square feet ...	...	...	...	...	...	1,035

13

3058/15

BUILDINGS AND ROADS.
CIVIL WORKS.

Govt. of {1891} Madras.

PUBLIC WORKS.

Dated May, 13th.

Read. *Encl.*

G.O., 13th May 1891, No. 1320 W.

MAY.

Sub-Registrars' Offices

Revised type plans submitted by the Consulting Architect for the larger —, viz., those accommodating more than three clerks, approved with remarks.

Public Works Department.

Current No. 11616 3058/3

Letter No. ..

Dated 3d. November 1891

From the Judicial Dept. & Registration Madras

TECHNICAL NOTE.

Constructing Sub Registrar's Office at Amalapuram. Godavari District. Amount of Estimate Rs 4410

An estimate amounting to Rs 2600 was originally prepared and sanctioned for the construction of this office in G.O. No. 352 W dated 1st Feby 93 but was not executed; the present estimate amounting to Rs 4410 provides for constructing the office on a larger area than the one sanctioned formerly under the above G.O., as an extra accommodation for 5 clerks. The design now proposed is also quite different, being based on the Revised Type design circulated in G.O. No. 1320 W dated

dated 13th May 1891 for Tiled roofs.

The civil is divided to the of black cotton to 5 and 6 ft. below ground level below a depth of 6 ft. of foundations are provided

The foundations for a depth of 5 ft. will be built of cement in cutchi mortar, the upper 1 foot of the foundations at and base: :ment will be built of rubble in chunam, the superstructure walls will be built of rubble masonry with hammer dressed, plastered inside with 2 coats of chunam and pointed outside with cutchi mortar. The superstructure walls will be 2 feet thick and the arches over doors & windows will be of brickwork in chunam. Flooring of all the rooms except the verandah rooms will be of cement 6" thick & plastered with Portland cement, the verandah rooms will be floored with 3/4" asphaltic laid on 6" of cement. Roof will be of flat and pan tiles on teak rafters; roof timbers will be teak and wood oiled 2 coats. Doors & windows will be as described in the

Estimate

Estimate made up of Teak wood painted with 2 coats of Cevamo oak paints?

The estimate provides for a thatch compound wall 10 feet long on each side of the gate pillars and for excavating a trench & planting an hedge for the remaining length.

The estimate amount of Rs 4,410 is made up as follows:-

Sub-Registrars office —	4130.
Gate pillars & gate —	77.
Compound wall —	43.
Compensation for land —	60.
Excavation of trench &c —	100
Total Estimate Rs	4,410

Many of the ratios provided in the estimate cannot be checked as they are not provided in the schedule of ratios, a few of the ratios which can be checked are considered high when compared with the schedule ratios, viz:-

	Estd.	Schd.
Random rubble in mortar	18.6..	14.10.6
Brick archwork — do —	23.9..	21....
Brickwork — do —	21.0	20....
Plastering 2 coats - do —	3....	2.12.1

In the report attached

Veen

estimate, it is stated that the rates are the same as that sanctioned for the District Munsiff's Court at Amalapuram, sanctioned in G.O. No. 2705 W of 26th Sept 1889 as they may be passed.

In the estimate for the main building, provision is made for erecting a lime shed at a cost of Rs 30 and for scaffolding at Rs 50, total Rs 80, as the building is not very high, this sum of Rs 80 may be met from the saving by Contingencies for which a sum of Rs 150 is provided, calculated at 5%.

The plinth area of the building is 1356 Sqft and the cost per Sqft will be Rs 3-0-9.

The plans & estimates have been countersigned by the Inspt. General of Registration and approved in the Judicial dept. vide

The area of the rooms are slightly decreased owing to the extra thickness of the partition walls in the proposed plans.

	Sqft.		
Record room	363	—	360
Registrar's room	452	—	444
	160	—	152
Total Sqft.	975		956
Difference	956		19 Sqft.

9-XI-91.

2705
14/91

16

No. 1202. G. D.

From,

C. Mitford Smith Esqr.
Offg. Superintending Engineer
First Circle.

To,

The Inspector General of Registration
Madras

Dowlaishweram, 3rd October 1891.

Sir,

With reference to your letter No. 4292 dated the 19th September 1891, I have the honor to forward herewith a plan and Estimate amounting to Rs. 4410 for constructing a Sub Registrar's office at Amalapuram in the Godavari district and to request that you will be so good as to transmit the same for the sanction of Government.

Enclosures 7
1 Plan
2 Estimates
1 General abstract
1 Report
1 Specification
1 site plan
7

2. The estimate has been prepared agreeably to the standard design sanctioned in G.O. No. 1320 W. dated the 13th May 1891.

3. An estimate of Rs. 2600 for the work was sanctioned in G.O. No. 352 W. dated the 1st February 1883. As the estimate now submitted is for a building quite different from that already sanctioned, no comparative statement is forwarded.

In general cost

4. A sum of Rs 3000 has been

been allotted for the work for expenditure during the current official year and I therefore request that you will be so good as to obtain the sanction of Government to the estimate as early as practicable.

5. A site plan also accompanies the estimates.

I have the honor to be,
Sir,
Your most obedient Servant,
[Signed] C. Mitford Smith.
Offg. Supg. Engineer I. Circle

Cyclo. 4996 - 23rd October 1891.
Madras.

Submitted for the early sanction of Government.

2. As the Sub Registrar's office is an important one the establishment consisting of 4 clerks, a building on the revised standard design for larger offices approved in G.O. dated 13th May 1891 No. 1320. W. is necessary.

Duncan Kephenographer
Inspr. Genl. of Regn.

To The Chief Secretary to Government
For H.H. George

E.J. Smith

305/6

P. W. CURRENT No. 71 76

Judicial (1891) Department

Registration

From

The Inspector General
of Registration
Madras

To The Chief Secretary
to Government
Fort St George

Dated 23rd October 1891
Received 3 October 1891
G.O. No. 4996.

Enclosures. Seven.

No.

Submitting letter from the Offg. Superintending Engineer I Circle requesting sanction for the plan and estimates for the construction of a Sub Registrar's office at Amalapuram in the Godavari District with revised standard designs for larger offices.

No. 1320 W dy 13-5-91
- 2849 W - 27-10-91

H. Dr. 8 3rd November 1891

Approved and transferred
to the Public Works Department.

(By order).

A. Butterworth.
Ag. Under Secretary

Encls. 7 (Plans)
Recd. 4-11-91

C. 30/10
R 2/11

Tho. P 4-XI-91

No 3058 W dy 14th Nov 91

B to P
with Cir Ltr

PUBLIC WORKS DEPARTMENT.

18

PROCEEDINGS OF THE MADRAS GOVERNMENT.

2058/1

READ the following

Letter from the S.E.I. circle No: 1202 G.D dy 13th October 1891
Endorsement thereon by the Inspector General of Registration No: 4996 dy 23rd October 1891
Endorsement in the Judicial Dept. dy 3rd Nov. 1891

The estimate, amounting to Rs. 4410, for constructing a Subregistrar's office at Amalapuram in the Godavari District, is sanctioned in Session of the estimate of Rs 2,800 sanctioned in G.O. No: 352 dy 14 Nov dy 1st February 1883.

2. A sum of Rs. 1130 was allotted for the work in G.O. No: 2849 W dy 27th October 1891 in addition to the budget grant of Rs. 3,000.

3. This sanction has been registered as

Provincial

Provincial No: 88 wob
1891-92 and classified
as Civil Buildings,
Original Works.

8

12.11

8088
12.11.91

Tho - 14-XI-91

25/11

To
The S.E. I circle
with 7 enclos.
" Exar P.W. Offices
" Judicial Dept

13-11-91

19

3088/19

C№ 11616.

Govt. of (18 9) Madras.

PUBLIC WORKS.

14-41. 91 No. 30585

Sub Registrar's Office

Estimate of the
4410 for Const.g a —
at Annalapuram
in Godavari Dt.
Sanctioned with
remarks.

77/4

(19)

D.C. 16th
S. 16/11 2pm