GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil Works.

Read—the following papers:—

From Major J. L. L. MORANT, R.E., Officiating Consulting Architect to Government, to the Chief Engineer, Public Works Department, dated Chepâk, 8th November 1883, No. 993.

With reference to the orders of Government marginally noted, I have the honor to enclose a standard design with specification and detailed quantities for a sub-registrar's office.

Office Note, No. 196 D., dated 30th Jan. 1883.
G.O., No. 788 W., dated 10th March 1883.

Enclosures.

DEPARTMENT PUBLIC WORKS.

REVISED DESIGN FOR A SUB-REGISTRAR'S OFFICE.

Specification of works to be performed in executing the standard designs for a Sub-registrar's Office according to drawings, sheets Nos. 23 *and* 24, *signed by the Officiating Consulting Architect on 8th November* 1883.

Excavator.

Clearing Site.—Take down any existing building on the site, stacking such materials as it may be desirable to use again.

Excavation.—After the center lines have been pegged and lined, set out on either side of the lines half the total breadth of the foundations, and excavate to the depth or depths shown on the drawing, or to such depth as the officer in charge of the works may direct.

Slips and Baling.—If slips occur during the progress of the works, clear the material away and bale any water lodging in the trenches from a hole or holes made without the limits of the same.

Ramming.—After the officer in charge of the work has seen that the trenches are the full and proper widths and depths, well ram the bottom with heavy beaters for the after-reception of the concrete.

Bricklayer.

Concrete.—Lay over the full breadth of the trenches about nine inches of concrete, as hereinafter specified, and well ram with heavy beaters to a thickness of about six inches. After the first layer has consolidated, lay a second, and execute as before. The complete concrete should be about twelve inches thick.

Brickwork.—Mark off carefully the center lines and lay off the thickness of the footing course according to the plan.

The brickwork will be executed in sound material, and care will be taken to insert, during the progress of the work, the door and window frames, wood-bricks for railing, &c.

The walls will be two bricks thick, about eighteen inches.

Splays.—The openings will be splayed as shown on the plan.

Arching.—The heads of the openings will be covered by segmental arches built in concentric rings clear of the frame.

The space between the arch and the top of the frame will be carefully closed in after the brickwork has settled down.

Bond.—The bond should be English, if possible.

Stones.—Set the stones under the verandah posts, also those under the beams, and fasten properly. All wood supplied by the carpenter.

Stone Mason.

Provide and dress two lines No. 4 stones 12″ × 12″ × 6″ with mortice holes 2″ square and 2″ deep to receive the verandah posts.

Steps.—Provide and dress two lines, the steps shown on the drawing, tailing each stone not less than 3″.

Carpenter.

Supply joists and rafters neatly planed and splayed.

Supply doors, windows and ventilator as shown in the drawing, neatly rebated and morticed in a workmanlike manner. The outside of the batten doors and windows of the record-room should be covered with thin sheet-iron.

Roofing.

Tiling.—Cover the roof with well-burnt flat and pan tiles laid in the usual manner, and the ridge with tiles specially made for the purpose.

Chunam Bands.—Protect the ridge with chunam and lay bands on the tiling — inches broad and — inches apart, rough cast on the surface.

Terrace.

Lay over ordinary terrace brick in mortar and finish off in the particular method employed in the district, taking care to make proper slopes for drainage.

Flooring.

After the surface has been brought up to the proper level lay an even floor of eight inches square tiles set diagonally. The tiles will be rubbed on the surface and gauged to fit each other.

Plastering.

Plaster the whole of the interior with two coats of plaster, and point or plaster the exterior to harmonize with the adjacent cutcherry buildings.

Materials.

The bricks will be cast in a mould — inches × — inches × — inches, well-burnt and free from defects.

The timber will be well-seasoned and free from defects.

The lime will be collected at — properly burnt and slaked.

The sand will be collected at —

Chepak,
8th November 1883.

(Signed) J. L. L. MORANT, Major, R.E.,
Offg. Consulting Architect to Government.

ESTIMATE FORM—DETAIL MEASUREMENTS.

Detail of Work.	Number.	Measurements in Feet. Length.	Breadth.	Depth.	Area or Contents.	Total Quantity of each description of Work.
					C. FT.	
Excavation for Foundation.						
Clerk's room walls front, rear and end	...	36 6	4 6	4 0	} 2,016	
Registrar's do. do. do. ...	...	51 0	4 6	4 0		
Record do. do. do. ...	...	24 6	4 6	4 0		
Spiral stairs	...	10 0	10 0	4 0	400	
Verandah walls	...	34 0	3 6	4 0	476	
Steps	...	8 0	2 0	1 6	24	
					2,916	C. FT. 2,916
Concrete.						
12″ thick = ¼ of excavation ...	...	...	...	...	729	729
Brickwork in foundation and basement footings.						
Clerk's room walls front, rear and end	...	38 6	2 6	1 6	} 435	
Registrar's do. do. do. ...	...	51 0	2 6	1 6		
Record do. do. do. ...	...	26 6	2 6	1 6		
Spiral stairs, taken solid square to ground	...	8 0	8 0	1 6	96	
Verandah walls	...	36 0	1 6	1 6	81	

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.
					C. FT.	C. FT.
Above Footings to Floor-level.						
Clerk's room front, rear and end walls	...	39 6	1 6	3 6	207	
Registrar's do. do. do. ...	...	51 0	1 6	3 6	268	
Record do. do. do. ...	...	27 6	1 6	3 6	144	
Spiral stairs	...	7 0	7 0	3 6	172	
Verandah walls	...	37 0	0 9	3 0	83	
Steps	...	8 0	2 0	1 1½	18	
Extra thickness for plinth ...	...	86 9	0 3	3 6	76	1,580
Deductions—						
Spiral angle	...	2 9	area.	2 0	6	
Stone steps and under posts as per details	...	...	...	...	12	18
						1,562
Brickwork in Superstructure.						
Clerk's room walls front, rear and end.	...	39 6	1 6	10 9	} 1,459	
Registrar's do. do. do. ...	...	51 0	1 6	10 9		
Record do.	...	27 6	1 6	9 9	402	
Do. upper portion ...	...	39 0	1 6	9 0	527	
Spiral (taken square)	...	7 0	7 0	19 6	956	
Do. upper portion 6′ 6″ diameter.	...	33 2	area.	6 6	216	
Gables	1	11 6	1 6	2 0	} 74	
Do.	1	13 0	1 6	2 0		
						3,634
Deductions—						
Door	1	4 0	1 6	7 6	45	
Do.	1	2 3	1 6	7 0	24	
Windows	4	3 6	1 6	4 3	89	
Do.	7	1 9	1 6	4 3	78	
Spiral doorways	2	2 0	1 6	6 6	39	
Do. upper	1	2 0	1 0	4 6	10	
Spiral void 4—6 dia.	...	15 10	area.	26 0	412	
Do. angle	...	2 9	area.	19 6	54	
Arch in registrar's room ...	1	8 0	1 6	8 0	96	
Ventilator in do. ...	1	3 6	1 6	1 9	9	
Archwork as per details ...	...	...	...	...	100	956
						2,678
Archwork.						
Over door	1	5 0	1 6	1 0	} 70	
Do.	1	3 0	1 6	1 0		
Windows	4	4 6	1 6	1 0		
Do.	7	2 3	1 6	1 0		
Spiral doorway	2	2 6	1 6	1 0		
Do.	1	2 6	1 0	1 0	3	
Arch in registrar's room	1	10 6	1 6	1 3	20	
Do. for ventilator	1	4 6	1 6	1 0	7	
					100	
Cut-stone in steps, &c.						
Steps	...	16 6	1 3	0 6	10	
Slabs under posts	4	1 0	1 0	0 6	2	
					12	12

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.
					C. FT.	
Teakwood.						
Verandah posts	4	6 4	0 5	0 5	4	
Do. Breastsummer	1	31 0	0 5	0 6	6	
Cleats	16	0 7⅓	0 2½	0 3	1	
Brackets	8	1 10½	0 3	0 3	1	
Planks, two taken together ...	4	1 3	1 3	0 1½	1	
Do. at base of posts	16	0 1½	0 8	0 4½	1	
Clerk's room—						
Rafters	5	7 6	0 3	0 3½	15	
Do.	11	8 6	0 3	0 3½		
Do.	8	10 0	0 3	0 3½		
Collar pieces, upper	11	5 0	0 2½	0 3	3	
Do. lower	11	10 0	0 3	0 3½	8	
Wall-plates	2	19 0	0 3	0 3	3	
Ridge piece at gable end ...	1	2 6	0 3	0 3		
Registrar's room—						
Rafters	12	9 6	0 3	0 3½	14	
Do.	8	7 0	0 3	0 3½		
Small rafters	6	4 9	0 3	0 3½		
Collar pieces, upper	9	4 6	0 2½	0 3	2	
Do. lower	9	9 0	0 3	0 3½	6	
		Average length.				
Wall-plates	2	15 6	0 3	0 3	2	
Ridge piece at gable end ...	1	2 6	0 3	0 3		
Record-room—						
Joists	18	11 6	0 3	0 6	26	
Spiral roof—						
Rafters	8	5 0	0 3	0 3	3	
Wall-plates including wastage.	4	4 6	0 6	0 3	2	
Block	1	1 0	1 0	0 9	3	
Finial	1	1 0	1 0	2 6		
Gable finishing—						
Brackets (may be made of three pieces)	5	1 6	0 3	1 3	2	
Gable collars	2	5 0	0 3	0 3	1	
Do. uprights...	2	1 0	0 3	0 3		
Do. planks (two taken together)	2	2 6	1 3	0 1½	1	
Reepers for tiled roofing	...	2,143 0	0 2	0 [illegible]	22	
Record racks in upper and lower floor uprights	60	0 2	0 2	8 0	13	
Ties	30	1 6	0 1½	0 2	2	
Do.	14	2 6	0 1½	0 2		
Horizontal bars	24	10 0	0 1	0 3	14	
Do.	36	7 6½	0 1	0 3		
Do.	24	7 6½	0 1	0 3		
Battens	72	10 0	0 2	0 [illegible]	24	
Do.	72	7 8	0 2	0 [illegible]		
Do.	132	7 8	0 2	0 [illegible]		
					180	C. FT. 180

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.
					SQ. FT.	
Venetian and Panel Doors including Frames.						
Entrance door	1	4 0	...	7 6	30	
Batten Doors with Frames covered with sheet-iron outside.						
Entrance to record-room	1	2 3	...	7 0	16	
Door from spiral to terrace ...	1	2 0	...	4 6	9	
					25	
Venetian Windows with Frames.						
.....	4	3 6	...	4 3	60	
.....	1	1 9	...	4 3	7	
					67	
Batten windows with glazed shutters and iron bars for record-room outside of batten shutters covered with sheet-iron.	6	1 9	...	4 3	45	
Glazed ventilator with frames ...	1	3 6	...	2 0	7	
						L. FT.
Railing in clerk's room	...	...	...	...	...	9·50
						52
Cornice for record-room	...	...	...	...	...	
						Steps.
Spiral steps	...	...	...	...	...	26
Roofing with flat and pan tiles and chunam bands.						
Clerk's room	...	9 0	17 0	...	153	
Do.	...	11 0	19 0	...	209	
Registrar's room	...	15 0	16 6	...	248	
Verandah	...	17 6	8 6	....	149	
Do.	...	13 0	7 6	...	98	
					857	SQUARES. 8·57
Terrace Roofing.						
Record-room	1	11 0	11 0	...	121	
Do. upper	1	13 0	12 6	...	163	
					284	2·84
Slope Terracing for Spiral Roof.						
.....	...	12 6	5 6	...	69	·69
Flooring with 8-inch square bricks.						
Clerk's room	...	16 0	11 6	...	184	
Registrar's room	...	10 0	12 6	...	125	
Archway	...	8 0	1 6	...	12	
Door piece	...	4 0	1 0	...	7	
Do.	...	2 3	1 0	...		

Estimate Form—Detail Measurements—*cont.*

Detail of Works.	Number.	Measurements in Feet. Length.	Breadth.	Depth.	Area or Contents.	Total Quantity of each description of Work.
Flooring with 8-inch square bricks —cont.					SQ. FT.	SQUARES.
Verandah		16 0	6 0	...	96	
Do.		11 6	5 0	...	58	
					482	4·82
Flooring with asphalte ¾-inch thick over a 5-inch bed of concrete.						
Lower record-room		10 0	10 0	...	100	
Door piece		2 3	1 0	...	2	
Spiral door		2 0	1 6	...	3	
Entrance to spiral		2 0	4 0	...	8	
					113	1·13
Plastering Interior.						
Clerk's room		55 0	...	10 9	591	
Do. gables	2	11 6	...	3 10	88	
Registrar's room		45 0	...	10 9	484	
Do. gables	2	10 0	...	3 4	67	
Record-room	2	40 0	...	9 0	720	
Spiral		14 0	...	25 6	357	
Door jambs	1	19 0	...	1 0	19	
Do.	1	16 3	...	1 6	24	
Spiral door	2	15 0	...	1 6	45	
Do.	1	11 0	...	0 9	8	
Windows jambs	4	15 6	...	1 0	62	
Do.	7	12 0	...	1 0	84	
Ventilator do.	1	11 0	...	1 0	11	
Arch do.	1	23 0	...	1 6	35	SQ. FT. 2,595
Deductions—						
Door	1	4 0	...	7 6	30	
Do.	2	2 3	...	7 0	32	
Do.	4	2 0	...	6 6	52	
Windows	1	2 0	...	4 6	9	
Do.	4	3 6	...	4 3	112	
Ventilator	7	1 9	...	4 3		
Archway	1	3 6	...	1 9	6	
	2	8 0	...	8 0	128	
						369
						2,226
Pointing or Plastering Exterior.						SQUARES. 22·26
Walls		73 6	...	12 0	882	
Gables	1	15 6	...	5 2	80	
Do.	1	13 0	...	4 4	56	
Record-room walls		30 6	...	22 0	671	
Do.	1	13 0	...	6 0	78	
Spiral		9 6	...	22 0	209	
Do. upper portion		20 6	...	5 0	103	
Verandah basement		38 0	...	1 6	57	
Door jambs	1	19 0	...	0 6	10	
Do.	1	11 0	...	0 3	3	
Window jambs	4	15 6	...	0 6	31	
Do.	7	12 0	...	0 6	42	
Ventilator	1	11 0	...	0 6	6	SQ. FT. 2,228

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.
					SQ. FT.	SQ. FT.
Brought forward ...	...	...	...	...	...	2,228
Pointing or Plastering Exterior—cont.						
Deductions—						
Door	1	4 0	...	7 6	30	
Do.	1	2 0	...	4 6	9	
Windows	4	3 6	...	4 3	112	
Do.	7	1 9	...	4 3		
Ventilator	1	3 6	...	1 9	6	
						157
						2,071
Painting doors, windows and exposed wood-work with three coats of Carson's oak paint.						SQUARES. 20·71
Venetians and panel doors ...	3	4 0	...	7 6	90	
Batten doors	2	2 3	...	7 0	32	
Do.	2	2 0	...	4 6	18	
Venetian windows	8	3 6	...	4 3	119	
Do.	4	1 9	...	4 3	30	
Batten windows with glazed shutters and iron bars	18	1 9	...	4 3	134	
Glazed ventilators	2	3 6	...	2 0	14	
Verandah posts	4	6 0	...	1 8	40	
Brackets	8	1 6	...	1 6	18	
Rafters at gable ends	2	10 0	...	0 9	29	
Do. do.	2	9 6	...	0 9		
Brackets at gables	5	1 6	...	1 6	11	
Gable collars	2	5 0	...	1 0	12	
Do. uprights	2	1 0	...	1 0		
Do. planks	4	2 6	...	1 3	13	
					560	5·60
Wood-oiling.						
Roof timbers		...	...	...	857	
Record racks		...	...	...	1,084	
Railing		...	...	...	57	
					1,998	20

ESTIMATE FORM.—ABSTRACT.

Quantity.	Description of Work.	Rate.	Per.	Amount.	Total.
		RS.		RS.	RS.
2,916	Excavation for foundation	...	1,000 C. ft.	...	
729	Concrete	...	100 C. ft.	...	
1,562	Brickwork in foundation and basement ...	...	,,	...	
2,678	Do. in superstructure	...	,,	...	
100	Archwork	...	,,	...	
12	Cut-stone in steps and under posts	...	C. ft.	...	
180	Teakwood wrought and put up	...	,,	...	
30	Venetian and panel door with frames ...	...	Sq. ft.	...	

Estimate Form.—Abstract—*cont.*

Quantity.	Description of Work.	Rate.	Per.	Amount.	Total.
		RS.		RS.	RS.
25	Batten-doors covered on the outside with sheet iron	...	Sq. ft.	...	
67	Venetian windows do.	...	,,	...	
45	Batten windows with glazed shutters and iron bars covered with sheet-iron on the outside...	...	,,	...	
7	Glazed ventilator with frames	...	,,	...	
9·50	Railing in clerk's room	...	L. ft.	...	
52	Cornice record-room	...	,,	...	
26	Spiral steps	...	Step.	...	
8·57	Roofing with flat and pan tiles, chunam bands.	...	Square.	...	
2·84	Terrace roofing for record-room	...	,,	...	
·69	Slope terracing for spiral roof	...	,,	...	
4·82	Flooring with 8-inch sq. bricks over a levelling course of wall bricks	...	,,	...	
1·13	Flooring lower record-room with asphalte ¾-inch thick	...	,,	...	
22·26	Plastering interior two coats	...	,,	...	
20·71	Pointing or plastering exterior	...	,,	...	
5·60	Painting doors, windows, and exposed woodwork with three coats of Carson's oak paint...	...	,,	...	
20	Wood-oiling roof timbers three coats	...	...	...	
	Add extra for turning finial finishing brackets, &c., ...	...	...	25	
	Contingencies at 5 per cent.	...	...	...	
				Grand Total of Estimate ...	

STATION,
8th November 1883.

(Signed) J. L. L. MORANT, Major, R.E.,
Offg. Consulting Architect to Government.

Endorsement in the Judicial Department, dated 15th December 1883, No. 2456.
Memorandum to the do. do., dated 20th ,, ,, No. 2585 C.T.
Endorsement from do. do., dated 10th January 1884, No. 57.

ORDER—dated 14th January 1884, No. 100 W., Public Works.

Ordered that copies of the type plan and estimate submitted by the Consulting Architect to Government be circulated to officers of the Public Works Department for use when registration offices are to be built in the same compound with cutcherries on the standard plan.

(True Extract.)

(Signed) J. SHAW-STEWART, Colonel, R.E.,
Secretary to Govt., P.W.D.

To Superintending Engineers,
To the Consulting Architect to Government,
,, Judicial Department,
} with copies of type plan and estimate.

Exd. E. Fernandez.
Spare Copies

BUILDINGS AND ROADS.
CIVIL WORKS.

Govt. of {1884} Madras.

PUBLIC WORKS.

Dated January, 14th.

Recd. *Encl.*

G.O., 14th Jan. 1884, No. 100 W.

JANUARY.

Sub-Registrar's Office

Circulating type plan and estimates for constructing a — in the same compound with cutcherries on the standard plan.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil Works.

Read—the following letter from A. SUBRAMIAH, Registrar of Godávari, to the Inspector-General of Registration, Madras, dated Cocanada, 2nd April 1883, No. 23:—

As requested by the Superintending Engineer of the First Circle, in his letter, No. 3172 G.D., dated 28th March 1883, I beg to forward, herewith, two estimates with site plans for constructing Sub-Registrars' Offices at Tanuku * and Bhímavaram † for your countersignature and submission to Government for sanction.

* Rs. 2,415.
† „ 2,540.

T. No. 477.

Endorsement on the above.

Submitted for the sanction of Government.

Ootacamund,
8th April 1883.

(Signed) G. HAMNETT,
Inspector-General of Registration.

To the Secretary to Government, Public Works Department.

Order—dated 21st April 1883, No. 1202 W., Public Works.

The estimates, amounting to Rs. 2,415 and Rs. 2,540, for constructing Sub-Registrars' Offices at Tanuku and Bhímavaram in the Godávari District, are sanctioned for execution when funds are available.

These sanctions have been registered as Provincial Nos. 8 and 9 W. of 1883-84 and classified as Civil Buildings, Original Works.

(True Extract.)

(Signed) R. H. SANKEY, Colonel, R.E.,
Secretary to Govt., P.W.D.

To the Superintending Engineer, First Circle, with four Enclosures.
„ Examiner, Public Works Accounts.
„ Inspector-General of Registration.
„ Judicial Department.

Exd. C. Howarth.
Spare Copies

BUILDINGS AND ROADS.
CIVIL WORKS.

Govt. of {1883} Madras.

PUBLIC WORKS.

Dated April, 21*st*.

Recd. *Encl.*

G.O., 21st April 1883, No. 1202 W.

APRIL.

Sub-Registrars' Offices

The estimates for constructing — at Tanuku and Bhímavaram in the Godávari District, sanctioned.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil Works.

No. 238.

READ—the following letter from Colonel J. BEATTY, R.E., Superintending Engineer, Fourth Circle, to the Chief Engineer, Public Works Department, dated Calicut, 18th January 1883, No. 25 :—

I have the honor to submit, herewith, the plan and estimate for a residence for the Superintendent of the Central Jail at Vellore, called for in G.O., No. 2047, of 19th August 1881.

1 Plan.
2 Estimates.
1 Abstract.
1 Report.
1 Specification.

2. The plan has been prepared in communication with the Inspector-General of Jails, and has been countersigned by him in token of approval. But Colonel Tennant has desired that all door and window frames in the outer walls of the building may be furnished with two pairs of shutters, one pair fitted with glass and the other with venetians. He also proposes a somewhat larger porch in front of the house than the Executive Engineer had provided, some alterations of doors and windows which have been marked in red ink on the plan, and the substitution of glazed swinging ventilators for glazed fanlights. These alterations will not materially affect the cost.

3. The estimate has been prepared as for any building to be erected on contract by free labor, but it is intended to employ jail labor as far as practicable. The rate provided for wood-work and doors and windows is that which would have been required to get the work done of *Pegu teak* by contract, but I have arranged with the Inspector-General of Jails to get the whole of the wood-work prepared by convict labor of *Anaimalai teak* at the Coimbatore Jail. Large savings will thus be effected on all times except superintendence, but the probable amount of these savings cannot yet be calculated, as it is not known to what extent free skilled labor will be needed. It is understood that there are very few bricklayers, stone-cutters, and carpenters in the Vellore Jail.

4. If the plan be sanctioned, I shall be obliged by your authorizing me, by telegram, to commence operations, as a sum of Rs. 10,000 was entered for this work in the Convict Labor Fund Budget of 1882-83, which I presume is still available, and I calculate that 5,000 rupees can at once be spent on the purchase of timber.

No. 239.

ORDER—dated 25th January 1883, No. 279 W., Public Works.

The estimate, amounting to Rs. 26,080, for constructing a residence for the Superintendent of the Central Jail at Vellore, is sanctioned for execution when funds are available.

2. The work has not been provided for in the current year's Convict Labor Budget, nor in the budget for 1883-84.

3. This sanction has been registered as Provincial No. 212 W. of 1882-83 and classified as Civil Buildings, Original Works.

(True Extract.)

(Signed) R. H. SANKEY, Colonel, R.E.,
Secretary to Govt., P.W.D.

To the Superintending Engineer, Fourth Circle, with five Enclosures.
" Examiner, Public Works Accounts, with Abstract Estimate.
" Inspector-General of Jails.
" Judicial Department.

Ex d. C. Howarth.
Spare Copies

BUILDINGS AND ROADS.
CIVIL WORKS.

Govt. of {1883} Madras.

PUBLIC WORKS.

Dated January, 25th.

Recd. *Encl.*

G.O., 25th Jan. 1883, No. 279 W.

JANUARY.

Nos. 238-239.

Central Jail, Vellore.

An estimate for constructing a residence for the Superintendent of the — , sanctioned.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil Works.

READ—the following letter from Colonel T. E. TENNANT, Inspector-General of Jails, to the Chief Secretary to Government, dated 21st July 1884, No. 223 :—

I have the honor to forward the accompanying letter * from the Superintending Engineer of the IV Circle, with eighteen enclosures, regarding the quarters of the Superintendent of the Central Jail at Vellore, now under construction.

* No. 221 M, dated 11th July 1884.

2. Colonel Beatty's letter fully explains the grounds for submitting a revised estimate, so it is not necessary for me to go through each item. But as I am about to vacate office it may be convenient if I offer a few observations on some of the causes for the increased estimates.

(i) *Tower.*—It was originally proposed to construct a massive, ugly and awkward outside staircase for the use of the sweeper and menial servants going to the upper-story. I at once took objection to this arrangement as it would not only be unsightly but would obstruct ventilation and light, necessitating the closing up of one side of the verandah. In lieu of this cumbersome masonry outside staircase, I proposed a tower containing a spiral staircase. It was then calculated that, taking into consideration the saving from employing convict labor, the original amount sanctioned for the superintendent's house would not be exceeded even were a tower substituted for the outside staircase.

(ii) *Glazed Windows.*—So far as I can gather the original estimate did not provide for glazed windows. This, of course, was a serious oversight as glazed windows in a climate like Vellore are very necessary. The omission was remedied as soon as it was noticed. The ventilators and fanlights are necessary for ventilation, and they ought to have found place in the orginal estimate.

(iii) *Stone Steps.*—I all along told the Engineer that all steps as well as the curb of the verandah of the kitchen should be stone work in chunam. Brick steps are too soft. Where there is much traffic the wear and tear is great. The stone is now on the spot and the steps ready to be put down. I strongly recommend that the stone should be utilised.

(iv) *Flooring.*—From experience in the central jail at Vellore it has been found that flat paving brick do not answer; they crumble away, the flooring becomes uneven, and the whiteants work up through the joints. I have always deprecated the use of having bricks, and recommended concrete flooring plastered with cement. I am still of opinion that this description of flooring ought to be laid down in the house at Vellore.

(v) *Raising Height of the Entrance to the Stables and Coach-house.*—Seven feet clear ought always to be allowed at the eaves of the stables; this has now been done, the original estimate made the stables much too low. The doors of the coach-house ought to be sufficiently high to allow of a carriage being put into the coach-house. In the original estimates the doors were not high enough.

(vi) *Woodwork.*—As explained by Colonel Beatty, the rates originally sanctioned were too low. The bressummers supplied from the Coimbatore jail were straight, whereas for the front and back bows of the verandah they require to be curved, and I am given to understand that a good deal of waste was occasioned by making these curved bressummers.

(vii.) *Cupboards and Shelves.*—I assumed that these small details would be arranged for by the Engineer building the house; they were apparently omitted from the original estimate, but have now been supplied, also wooden blocks let into the walls to hold the hooks for fastening open the doors and windows.

(viii) *Demolition.*—I do not exactly know what this item consists of. In regard to the kitchen, it appears that through some misunderstanding the foundations were laid close to the back verandah opposite the dining-room. On reference being made to me, I at once ordered the kitchen to be built on the site originally selected. The kitchen was supplied with an enormous chimney, about 21 feet in height and 3 feet in diameter; it was a ponderous, ugly mass of masonry, and, in my opinion, quite unsuited for so small a building. I was, however, told that it was according to the "standard plan," and possibly it might have suited a factory or some building three times the size of the Vellore kitchen. The Executive Engineer admitted the unsuitable proportions of this gigantic chimney and was good enough to shave down some 10 feet, making it not quite so unsightly. These are, I believe, the principal demolitions alluded to.

3. In regard to Colonel Beatty's proposals to effect a saving, I beg to offer the following remarks:—

(i) *Balustrading to Verandahs.*—I much prefer the ordinary vase parapets, and I observe that Colonel Beatty calculates that Rs. 188 will be saved by adopting vase parapets in the upper verandah. It was, in my opinion, a great mistake putting up a fancy balustrading in the lower verandahs.

(ii) *Plastering.*—Colonel Beatty states that there will be a saving of Rs. 277 by providing ordinary plaster in and out, instead of fine plaster. I cannot approve of this suggestion, especially for the inside work. Such rough work would be most unsightly and would spoil the walls of the rooms; the saving is very inconsiderable, and I think it will be a thousand pities now to spoil the house by leaving the walls rough plastered.

(iii) *Wood-oiling for Doors and Windows.*—The saving on this head is estimated at Rs. 103. I would suggest that the painting or wood-oiling be left to the superintendent who can carry out the work with convict labor at a much less cost than the rates estimated by the Department of Public Works.

(iv) *Gates, Pillars and Culverts.*—I would omit the gates and pillars; these can be built afterwards by the superintendent, who will employ convict labor, the gates being made in the jail workshops. With regard to the culverts, these are necessary, but, I think, an 18-inch barrel culvert will be better than the one shown in the plan.

4. I was over the works a few days ago with Major McLeod and the Executive Engineer, and recently Colonel Beatty very obligingly met me at Vellore and I had an opportunity of inspecting the works with him. The works are well executed and the Jail Superintendent will have a very excellent house. I think it would now be a pity to starve the work for the small additional expenditure required to complete it. I would therefore suggest that the revised estimate be sanctioned and the work completed without delay. I may here mention that a large number of workmen have, with much trouble, been assembled at Vellore, and it would be inconvenient now to discharge them and to stop the work. If the work is pushed on and completed out of hand, Overseer Narrainsawmy Mudaliar (in immediate charge of the works) calculates

that there will still be a considerable saving in the estimates; but if the work is dawdled over, the savings from the estimate will probably be but small.

ENCLOSURE.

From Colonel J. BEATTY, R.E., Superintending Engineer, IV Circle, to the Inspector-General of Jails, dated Barur, 11th July 1884, No. 221 M.

I have the honor to forward, herewith, a revised estimate for the quarters of the Superintendent of the Central Jail, Vellore, now under construction on the estimate sanctioned in G.O., No. 279 W., of 25th January 1883.

Appendices A to E, 5.
The revised plans and estimates sent in a separate cover, 15.

2. In my letter to the Chief Engineer submitting the estimate I mentioned that you had already asked for certain alterations as follows:—

(1) That all doors and windows in the outer walls of the main building should be provided with two pairs of shutters; one glazed, the other venetianed.
(2) That fourteen windows should be converted into doors.
(3) That the measurement of the windows and doors should be taken to the inside of the frames with a view to better light and ventilation.
(4) That glazed swinging fanlights should be provided over doors and windows instead of glazed fanlights.
(5) That a larger porch should be provided in front of the building than had been allowed for in the sanctioned estimate.

3. I expected that these alterations, though considerable, would not affect the cost so far as to necessitate a revised estimate; because I anticipated that the additional expense for larger quantities of material (such as timber) would be met by the savings resulting from the use of convict labor and Anaimalai teak instead of Pegu teak.

4. But my anticipations have proved incorrect for the following reasons:—

(1) Not only was no skilled labor available in the Vellore jail but it was not found practicable to transfer such workmen from other jails, and so the only convict labor we had was unskilled.
(2) The convict labor available was all wanted for use at the new close prison before the upper-story of the superintendent's house was built, so that that portion of the works was built with all free labor, skilled and unskilled.
(3) Owing to the great demand for Anaimalai teak, now that the price of Pegu teak has risen, Mr. Grimes found it difficult, I understand, to get sound logs of large size, and there was a large amount of waste in using it. This, no doubt, contributed to the excess on wood-work.*

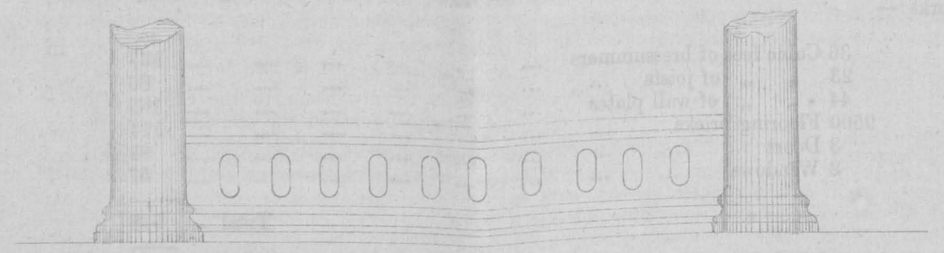
* But see paragraph 9.

(4) Several minor alterations suggested themselves to yourself or to the Superintendent of the Jail while the work was in progress, some of them necessitating demolition and rebuilding.

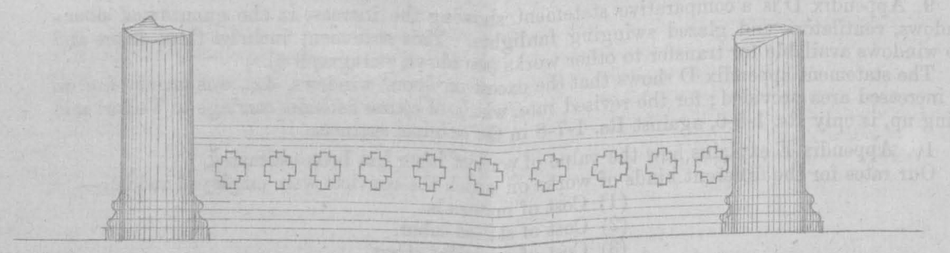
The principal of these were as follow:—

(*a*) Substitution of a spiral staircase for the use of the waterman and sweeper at the rear right hand corner of the main building, in place of a flight of stairs in brick work on the right side of the house, as in the Coimbatore house.
(*b*) Alteration of the wooden staircase leading to the upper-story, so as to provide a landing half way up, as in the staircase of the public offices, Stonehouse Hill, Ootacamund.
(*c*) Substituting pillars, &c., at the right front verandah of the house, both on the ground floor and upstairs, for the screen walls which the original estimate provided, similar to those in the Coimbatore house.
(*d*) Provision of cupboards in the walls of rooms.
(*e*) Cutstone everywhere substituted for brick-in-chunam steps.
(*f*) Cement plaster substituted in the flooring for large square bricks in chunam in the main building and for concrete floor in the cook-house.
(*g*) Shelves on the walls of the pantry and store-rooms.
(*h*) Alterations of the dimensions of the porch which now provides a width of 11′ 6″ for the passage of carriages.
(*i*) Omission of the partition walls between bath-rooms on the upper floor.
(*j*) Alteration of the position of the bath-room doors on the ground floor.
(*k*) Altering and enlarging the coach-house door.
(*l*) Altering the position of the cook-house after the foundations had been begun.

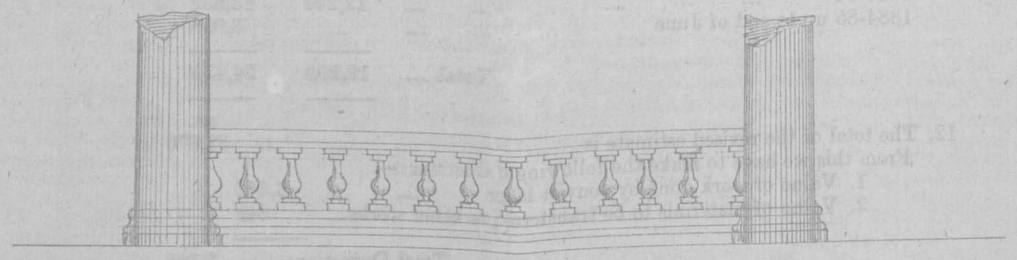
(*m*) Providing screen walls in rear of cook-house.
(*n*) Altering the dimensions and shape of the cook-house chimney.
(*o*) Shifting one door and one window in the cook-house.
(*p*) Altering the height of the coach-house by one foot additional.
(*q*) Shifting window from side wall of the dressing-room lower floor below straircase to left rear bath-room.
(*r*) Providing four glazed swinging ventilators in the walls of the centre rooms of the upper story.
(*s*) Altering the verandah parapets from



to



and up stairs to



(*t*) At your inspection at end of March you objected to the size of five doors in the inner walls of the upper-story. Two of these doors have been transferred to the close prison store-room, but the other three will have to be charged to Stock until an opportunity occurs for transferring them to some other new work.

5. The alterations (*a*), (*b*), (*c*), (*h*), (*i*), (*j*), (*k*), (*l*), (*n*), (*o*), (*q*), (*s*) have caused extra expense by demolitions of work which had been partly executed in accordance with the original design.

6. The alterations (*c*), (*f*), (*h*) and (*t*) have resulted in the following materials, which were prepared for the building in accordance with the sanctioned plan, not being required, and consequently having to be transferred to Stock until opportunities occur of using them up on other works:—

	RS.
36 Cubic feet of bressummers	135
23 „ „ of joists	86
44 „ „ of wall plates	165
9500 Flooring bricks	114
3 Doors	91
2 Windows	57
Total ...	648

The transfer of these materials to Stock requires the sanction of Government.

7. At your request provision has been made for two pairs of gates and gate-pillars, and for two culverts by the road side in front of the gates. These works have not been begun.

As you requested, *no* provision is made in the estimate for floorings of out-houses (stable, coach-house, harness-room, and servants' quarters) with the exception of the cook-house, which has been estimated for.

No provision has been made for steining, parapets, annular-pavements, or surface drains at the two wells in the compound of the superintendent's quarters. The cost would be about Rs. 250 for each well.

8. Appendix C is a condensed abstract of the comparative statement explaining in detail the various items of excess, &c.

9. Appendix D is a comparative statement showing the increase in the quantity of doors, windows, ventilators, and glazed swinging fanlights. This statement includes three doors and two windows available for transfer to other works (see above, paragraph 6).

The statement appendix D shows that the excess on doors, windows, &c., was mainly due to the increased area provided; for the revised rate, which of course includes carriage to Vellore and fitting up, is only Rs. 1-5-6, against Rs. 1-7-8 in the original estimate.

10. Appendix E explains how the value of convict labor has been estimated.
Our rates for the different kinds of works on which the convicts were employed include—
(1) Cost of materials.
(2) Cost of skilled labor.
(3) Cost of unskilled labor.

The balance of the rate, after providing for materials and skilled labor, has been credited to the Jail Department. The Executive Engineer has, in the remarks column of the statement appendix E, explained in detail how he arrived at his rates for convict labor in the case of rubble masonry and concrete. The other rates for convict labor were calculated similarly.

11. The allotments and expenditure up to date have been as follow:—

Years.	Allotment. RS.	Outlay. RS.
1882-83	7,000	6,820
1883-84	12,200	13,632
1884-85 up to end of June	...	3,998
Total ...	19,200	24,450

12. The total of the revised estimate is ... ... RS. 32,670
From this we have to make the following deductions:—

1. Value of work done by convict labor	1,660	
2. Value of materials to be transferred to other works...	648	
Total Deductions ...		2,308
Balance ...		30,362
Expenditure to end of 1883-84		20,451
Allotment required for the present year		10,005

13. The work remaining to be done, according to the revised estimate, on 30th June, as shown in appendix A, is estimated at Rs. 6,007. I have authorised the Executive Engineer to complete the roofing of the main building, and to stop the work then until orders are received on the revised estimate. The stoppage is necessary because the expenditure will then have reached about the amount of the original sanction. According to the rules of this department all expenditure is based on sanctioned estimates and grants. No new work can be begun without a sanctioned estimate and a grant, but, unless there are special orders stopping it, a work once begun can be carried on to the amount of the sanctioned estimate. According to the Code* it is also the duty of the Executive Engineer to bring to notice the probability of any excess, more particularly a large excess as in this case, and solicit instructions. In this case notice should have been given in March last when Mr. Norris became aware of the excess on woodwork and that he had effected no savings to meet it. I would then have directed him to stop all work not provided for in the sanctioned estimate and to hasten the submission of the revised estimate, orders on which would doubtless have been passed before any stoppage was necessary.

* Paragraph 2306.

14. Mr. Norris's explanation is as follows :—

"I did not consider it necessary to make a report to you on the probability of the excess over the sanctioned estimate for the Superintendent's quarters, Central Jail, because of the fact of your having sanctioned the improvements which formed the chief items of excess,* and of your having allowed, in No. 483 N.A., dated 20th September 1883, the execution of improvements pending submission of a revised estimate after the lower floor of the building had been completed; I naturally assumed that all probability of some excess was quite evident to you. And, moreover, as already reported in my No. 79 S.E., dated 7th March 1884, I was not in a position to form a correct idea of the said excess for the reasons therein given. It may, however, be mentioned that there has been excess on works not sanctioned by you; but the amount of this excess is so small that it rendered a special report on it scarcely necessary; and these small works, I considered, might be provided for in the revised estimate."

* 1. Double doors.
2. New tower.
3. Cupboards and shelves.
4. Cutstone.

15. As you may wish to know in what way the cost of completing the buildings may be reduced, I have prepared appendix B.

Major McLeod approves of alteration No. 1, but objects to the others.

16. The only further remark I have to make is that the revised estimate provides for an increase of rates in one case only, viz., the roofing of out-houses. The description of roofing adopted, pantiles, without flat tiles under them, resting on bamboo reepers, placed close together, is one of which there had been no previous experience of late years, and the rate proved very insufficient. That description of roofing was provided in the original estimate at the suggestion of Lieutenant-Colonel Mead, as the cheapest.

It has cost about Rs. 10 per square, while flat and pan tiles on teak reepers would have cost about Rs. 14.

No. 1714, Judicial.

Approved and transferred to the Public Works Department for sanction.

(By Order.)

OOTACAMUND,
30th July 1884.

(Signed) M. HAMMICK,
Acting Under Secretary.

ORDER—dated 6th September 1884, No. 2208 W., Public Works.

In G.O., No. 279 W., dated 25th January 1883, an estimate, amounting to Rs. 26,080, was sanctioned for constructing a residence for the Superintendent of the Central Jail at Vellore. When submitting the estimate, the Superintending Engineer reported that he anticipated "large savings" by the employment of convict labor and the use of Anaimalai teak; the estimate rates being sufficiently liberal to admit of the construction of the building on contract, by free labor, and to allow of the use of the more expensive Pegu teak.

2. The Government are now asked to sanction a revised estimate amounting to Rs. 32,670, or Rs. 6,590 more than the original estimate, which was itself ample for the construction of a residence for an officer in the position of Superintendent of a

Central Jail, and compares favorably with the cost of buildings to be provided for other civil officers, the maximum outlay on which has been restricted to the following amounts :—

	RS.
For a Collector	30,000
Do. Sub-Collector	20,000
Do. Head Assistant Collector	16,000

3. It is noted, moreover, that the State will recover nothing in the shape of rent for the building now under consideration. Looking to these circumstances, the Government cannot allow any expenditure not absolutely necessary in excess of the original sanction. It is to be regretted that the work has been allowed to progress so far that the only savings now possible are on a few unimportant items, and apparently amount to no more than Rs. 1,170, as detailed in appendix B of the Superintending Engineer's letter. These, and all other savings which may still be feasible, should be effected on the work remaining to be done; the total cost of which is stated to be Rs. 6,007, as detailed in appendix A.

4. The total amount of the excess over items of the original estimate comes to Rs. 6,820, against which savings to the extent of Rs. 230 are anticipated.

The principal excesses occur on the following items :—

	RS.
(*a*) Masonry, due to change of site and alterations of design	635
(*b*) Substitution of chunam for mud plastering to out-houses	285
(*c*) 46 additional pillars or columns	549
(*d*) Substitution of cutstone for brick-in-chunam steps	227
(*e*) Extra woodwork, due to alterations of design, and provision of additional conveniences asked for by the Jail authorities ..	3,308
(*f*) Painting and wood-oiling for increased area of woodwork ...	289

5. The explanation offered by the Executive Engineer, as to his reasons for omitting to bring to notice* the probability of large excesses over the original estimate, is most unsatisfactory. He should have taken timely measures to prevent the Government from being committed to any expenditure which had not been specifically authorised. Mr. Norris will be informed that the Government are seriously displeased with his remissness in this matter.

* Public Works Code, Section 2306.

6. It is observed that the value of convict labor is estimated at Rs. 1,660; and a recovery, amounting to Rs. 648, on account of the value of the materials to be transferred to other works is anticipated. Deducting from the amount (Rs. 32,670) of the revised estimate the sum of Rs. 1,170 disallowed in paragraph 3 of these proceedings, the estimate will stand at Rs. 31,500, to which sanction is now accorded.

7. This sanction has been registered as Provincial No. 137 W. of 1884-85, and classified as Civil Buildings, Original Works. It supersedes the sanction given in G.O., No. 279 W., dated 25th January 1883.

(True Extract.)

(Signed) J. SHAW-STEWART, Colonel, R.E.,
Secretary to Govt., P.W.D.

To the Superintending Engineer, IV Circle, with enclosures.
„ Examiner, Public Works Accounts, with abstract estimate.
„ Judicial Department.

Exd. E. Fernandez.
Spare Copies

BUILDINGS AND ROADS.
CIVIL WORKS.

Govt. of {1884} Madras.

PUBLIC WORKS.

Dated September, 6th.

Recd. *Encl.*

G.O., 6th Sept. 1884, No. 2208 W.

SEPTEMBER.

Residence for the Superintendent, Central Jail, Vellore

Orders on revised estimate for —.

No. 1817 Gd.

FROM,

THE SUPERINTENDING ENGINEER
FIRST CIRCLE.

TO,

THE Chief Engineer
Public Works Department

Dowlaishweram, 21st October 1884.

SIR,

I have the honor to request that you will be good enough to obtain an allotment of Rupees 750 for the Godavari Western Division under Provincial Civil Buildings Minor Works - The Divisional Officer reports that this sum is required for placing Lalug Cutcherry treasuries on safe Condition and some other work -

I have the honor to be
Sir
Your Most Obedient Servant

Asst Engr
For Superintending Engineer 1st Circle

JK

From

The Supg Engineer
1st Circle

To The Chief Engineer
D.P.W.
Madras.

Dated 21st
Desp'd 21st } October 1884
Rec'd

No 1817 G.D.

Encls. —

F. 2748 Rly 5th Nov. 7/84

Allotment of Rs 750 for the Godavari Western Division under Provincial Civil Buildings Minor works.

Requests to obtain an—

PUBLIC WORKS DEPARTMENT.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

UNDER date the

READ the following

From the Supg. Engr. I Circle No. 1817 G. D. of 21st Oct/84.

The sum of Rs 750 required for Minor Original works in the Godavari Western Division under Provincial Civil buildings is allotted from the reserve with Government under Provincial

CD.
30.10.84

5/11

To
The Supg. Engr. I Circle. ✓
" Ex and. P. W. Accounts

1.11.84.

No 2270 Gs

From, The Superintending Engineer
1st Circle

To, The Chief Engineer
Public Works Department

Dowlaishweram 22nd December 1884
Desp 50

Sir,

I have the honor to request that you will be good enough to obtain an allotment of Rupees 470 for the Godavari Western Division in addition to Rupees 750 allotted in G.O. No 2748 W. dated the 5th November 1884 under Provincial Civil Buildings Minor Works - The Divisional Officer says that the sum now asked for is required for adding new Verandahs both sides of Clerks' rooms of the Division Office at Chettipett.

I have the honor to be
Sir
Your Most Obedient Servant

Asstt Engineer
for Superintending Engineer 1st Circle

JK

~~No 138 W of 16 Jany/85.~~

PWC No 10741

The additional funds applied for cannot be sanctioned during the current official year.

[illegible]
14.1.85

From
The Supg Engineer
1st Circle

To
The Chief Engineer
P. W. D.
Madras

Dated 22nd
Desp'd 22nd } December 1884
Recd

No 2270 G-D.
Encls —

~~S. No 138 W of 16 Jany/85~~

Allotment of Rs 470 for the Godavari Western Division under "Provincial Civil Buildings Minor Works".

Requests to obtain an additional —

with order

S. E I Circle. D 16/1/85
Id 21/1 [illegible] 22/1.

11/1/61

~~Revised~~

No. 513 **of 1884-85.**

Fund— Provincial Services / Provincial /
Service Head— Civil Building
Departmental Head— Original works
Main Head— (20) Miscellaneous
Sub-head(a)— Nil
Project of which the work forms part(a)—
Name of Work— Constructing Sub Registrar's Office at Tanuku
Amounting to Rupees 2800.
To be carried out by Departmental agency.

No.	Sub-head.	Quantity.	Rate. RS.	A.	P.	Per	Amount. RS.	A.	P.
	Excavation Cft.	2916	2	8	"	1000 cft	8	"	"
	Concrete "	729	12	"	"	100 cft.	88	"	"
	Brickwork in foundation and basement	1562	23	"	"	"	359	"	"
	Do in superstructure	2678	23	"	"	"	616	"	"
	Archwork	100	25	"	"	"	25	"	"
	Cutstone in steps & under posts	12	"	11	2	1 cft.	8	"	"
	Teakwood wrought & put up	180	3	4	"	"	585	"	"
	Venetian and panel doors with frames of entrance	Sft 23	1	9	"	1 sft.	36	"	"
	Batten doors covered on the outside with sheet iron 1/16" thick	Do 18	2	12	"	"	50	"	"
	Venetian windows	Do 50	1	14	"	"	94	"	"
	Batten windows with glazed shutters and Iron bars covered with sheet iron on the outside	Do 31	4	12	"	"	147	"	"
	Glazed ventilators with frames	Do 5	1	14	"	"	9	"	"
	Railing in clerk's room Rft.	9.50	1	4	"	Rft.	12	"	"
	Cornice record room	Do 52	"	5	"	"	16	"	"
26	Spiral steps	—	—	—		—	50	"	"
	~~Total Rupees~~ ..		..			..			

(a) These lines will not be required in the case of Minor Works and Repairs.

Ward
Executive Engineer

NOTES.

REFERENCE TO MADRAS P. W. D. CODE.

CHAPTER VII.—PARAS. 998, 1019, 1029 AND 1034.

1. In this Form the Examiner should be furnished by sanctioning authorities with abstracts of estimates for all works estimated to cost more than Rs. 200, immediately after sanction has been accorded.

2. The abstract of the sanctioned estimate to be furnished to the Examiner is to be an *exact* copy of the abstract of the detailed estimate sanctioned. In framing this abstract, however, care should be taken only to enter such of the sub-heads as are to be separately shown in the accounts of the work.

3. The abstracts of estimates submitted for the sanction of Government should be in duplicate, one copy being intended for the Examiner, the other being returned after sanction to the Superintending Engineer or Superintendent of Works, for record.

4. In the duplicate copies of abstracts intended for the Examiner, the following information should be filled in by the Executive Engineer.

Probable duration of execution of work .. .. .. Months.

Probable No. of Work Vouchers that will be required ..

P. W. D. Madras, Form No. M 77 *a*.

BUILDINGS AND ROADS.

DIVISION

Abstract of Estimate framed by _____

_____

for *_____

_____

* Here enter name of work.

No. **of 188 -8 .**

Fund—

Service Head—

Departmental Head—

Main Head—

Sub-head(*a*)—

Project of which the work forms part(*a*)—

Name of Work—

Amounting to Rupees

To be carried out by

No.	Sub-head.	Quantity.	Rate. RS.	A.	P.	Per	Amount. RS.	A.	P.
	Roofing with flat and pan tiles chunam backs.	8·57 Sq.	8	"	"	100 Sq. ft.	69	"	"
	Terrace roofing for record room	2·84 "	20	"	"	"	57	"	"
	Slope terracing for spiral roof	0·69 "	—	—	—	—	15	"	"
	Flooring with 8" sq. bricks over a levelling course of all bricks	4·82 "	7	"	"	"	34	"	"
	Flooring lower record room with asphalte 3/4" thick	1·13 "	30	"	"	"	34	"	"
	Plastering interior two coats	22·26 "	4	"	"	"	89	"	"
	Pointing or plastering exterior	20·71 "	4	"	"	"	83	"	"
	Painting doors & windows and exposed wood work with 3 coats of carsons oak paint	5·60 "	5	8	"	"	31	"	"
	Wood oiling roof timbers three coats	20 "	3	8	"	"	70	"	"
	Add extra for turning finial finishing bracket &c	-	—	—	—	—	25	"	"
							2610	"	"
	Contingencies 5 per cent	—	—	—	—	—	128	"	"
	Petty supervision	—	—	—	—	—	62	"	"
	Total Rupees						2800	"	"

(*a*) These lines will not be required in the case of Minor Works and Repairs.

Lieut-Colonel R.E.
Supdg Engineer
1st Circle

Executive Engineer
3-12-84

AB 25/11

NOTES.

REFERENCE TO MADRAS P. W. D. CODE.

CHAPTER VII.—PARAS. 998, 1019, 1029 AND 1034.

1. In this Form the Examiner should be furnished by sanctioning authorities with abstracts of estimates for all works estimated to cost more than Rs. 200, immediately after sanction has been accorded.

2. The abstract of the sanctioned estimate to be furnished to the Examiner is to be an *exact* copy of the abstract of the detailed estimate sanctioned. In framing this abstract, however, care should be taken only to enter such of the sub-heads as are to be separately shown in the accounts of the work.

3. The abstracts of estimates submitted for the sanction of Government should be in duplicate, one copy being intended for the Examiner, the other being returned after sanction to the Superintending Engineer or Superintendent of Works, for record.

4. In the duplicate copies of abstracts intended for the Examiner, the following information should be filled in by the Executive Engineer.

Probable duration of execution of work .. .. .. Months.

Probable No. of Work Vouchers that will be required ..

P. W. D. Madras,
Form No. M 77 *a*.

BUILDINGS AND ROADS.

DIVISION Godavari Western

Abstract of Estimate framed by Executive Engr. Western Dn. Godavari

for * Constructing Sub Registrar's Office at Lonkapalli

* Here enter name of work.

ESTIMATE FORM.—Abstract.

Quantity.	Description of Work.	Rate.	Per	Amount.	Total.
		Rs.		Rs.	Rs.
2916	Cft. Excavation	2-8-0	100 Cft.	8	
729	" Concrete	12-0-0	100 Cft.	88	
1562	" Brickwork in foundation and basement	23-0-0	Do	359	
2678	" Do in superstructure	23-0-0	Do	616	
100	" Archwork	25-0-0	Do	25	
12	" Cutstone in steps and under posts	0-11-2	1 Cft.	8	
180	" Teakwood wrought & put up	3-4-0	1 Do	585	
23	Sft. Venetian and panel doors with frames of entrance	1-9-0	1 Sft.	36	
18	Do Batten doors covered on the outside with sheet iron 1/16 thick	2-12-0	Do	50	
50	Do Venetian windows	1-14-0	Do	94	
31	Do Batten windows with glazed shutters and Iron bars covered with sheet iron on the outside	4-12-0	Do	147	
5	Do Glazed ventilators with frames	1-14-0	Do	9	
9.50	Rft. Railing in Clerks room	1-4-0	Rft.	12	
52	Do Cornice record room	0-5-0	Do	16	
1 Do 26	Spiral steps	"	"	50	
8.57	Sqrs. Roofing with Glas and pan tiles. Chunam bands	8-0-0	1 Sqr.	69	
2.84	Do Terrace roofing for record room	20-0-0	Do	57	
	~~Grand Total of Estimate~~ ..				

STATION

Dated

Executive Engineer.

REFERENCE TO MADRAS P. W. D. CODE.

PARAS. 1074, 1075, 1086, 1087, 1091 TO 1094, 1108, 1111 TO 1114, 1130 AND 1145 TO 1147.

P. W. D FORM.
No. M 207.

CIRCLE—

DIVISION—

ESTIMATE FORM.—Abstract.

(To accompany the Detailed Estimate No. of 188 -8 for * ——————.)

* Here enter the name and description of work in full.

ESTIMATE FORM.—Abstract.

Quantity.		Description of Work.	Rate.	Per	Amount.	TOTAL.
			RS.		RS.	RS.
0.69	sqrs.	Slope Terracing for spiral roof	-	.	15	
4.82	do	flooring with 8" sqr bricks over a levelling course of wall bricks	7-0-0	sqr.	34	
1.13	do	Flooring lower record room with asphalte 3/4" thick	30-0-0	do	34	
22.26	do	Plastering interior two coats	4-0-0	do	89	
20.71	do	Pointing or Plastering exterior	4-0-0	do	83	
5.60	do	Painting doors and windows and exposed wood work with 3 coats of Carsons oak paint	5-8-0	do	31	
20	do	Wood oiling roof timbers 3 coats	3-8-0	do	70	
		Add extra for turning finial finishing brackets &c.	—	—	25	
					2610	
		Contingencies 5 per cent	—	—	128	
		Petty supervision	—	—	62	
						2800

Lieut Col RE

Supg Engr 1st circle

Grand Total of Estimate 2800

Executive Engineer.

STATION

Dated 3-12-84

AB 24/11

REFERENCE TO MADRAS P. W. D. CODE.

PARAS. 1074, 1075, 1086, 1087, 1091 TO 1094, 1108, 1111 TO 1114, 1130 AND 1145 TO 1147.

P. W. D. FORM. No. M 207.

CIRCLE— 1st

DIVISION— Godavari Western

ESTIMATE FORM.—Abstract.

(To accompany the Detailed Estimate No. 513 of 1884-85 for * _____.)

constructing Sub Registrar's Office at Tamuku.

* Here enter the name and description of work in full.

Revised

Estimate No. 513 *of* 1884-85

~~Financial~~ Head— Provincial Services / Provincial

Budget Head— Civil Buildings

Departmental Head— Original works

Main Head— (20) Miscellaneous

Sub-Head— Nil

Project of which the work forms part— —

Section— —

Name of Work— Constructing Subregistrars Office at Tamuku

Amount of Estimate— Rs 2800

To be carried out by— Departmental agency.

REFERENCES.

—

Reference to Madras P. W. D. Code.

Paras. 1074 to 1076.

P. W. D. Form. No. M 203.

1st Circle.

Division—Godavari Western

Taluk—

ESTIMATE FORM—Wrapper or Outer-sheet.

Estimate for* Constructing Sub Registrar's Office at Samikan

Amount of Estimate, Rs. 2800

Detailed Estimate, No. 513 of 1884-85

* Here enter name and description of work in full.

ESTIMATE FORM.—Abstract.

Quantity.	Description of Work.	Rate.	Per	Amount.	Total.
		Rs.		Rs.	Rs.
2916	C ft. Excavation for foundation	2-8-0	100 c ft.	8	
729	do Concrete	13-12-0	100 c ft.	100	
1562	do Brickwork in foundation and basement	23--	"	359	
2,678	do Do in superstructure	23--	"	616	
100	" Arch work	25--	"	25	
12	" Cut stone in steps & under posts	0-11-2	1 c ft.	8	
180	" Teak wood wrought & put up	3-4-0	"	585	
23	sft. Venetion and panel doors with frames & entrances	1-9-0	sft.	36	
18	sft. Batten doors covered on the outside with sheet iron 1/16" thick	2-12-0	"	50	
50	" Venetion windows	1-14-0	"	94	
31	" Batten windows with glazed shutters and iron bars covered with iron sheet iron on the outside	1-12--	"	147	
5	" Glazed ventilator with frames	1-14-0	"	9	
9·50	" Railing in clerk's room	1-4-0	"	12	
52	Cornice record-room	0-5-0	sq ft.	16	
26	Spiral steps	-	steps	50	
8·57	Roofing with flat and pan tiles, Chunam bands	8--	sq.	69	
2·84	Terrace roofing for record room	20--	"	57	
·69	Slope terracing for spiral roof	—	—	15	
4·82	Flooring with 8" square bricks over a levelling course of ballbricks	7--	"	34	
				2290	

Grand Total of Estimate ..

Station

Dated

Executive Engineer.

REFERENCE TO MADRAS P. W. D. CODE.

PARAS. 1074, 1075, 1086, 1087, 1091 TO 1094, 1108, 1111 TO 1114, 1130 AND 1145 TO 1147.

P.W.D FORM. No. M 207.

CIRCLE—

DIVISION—

ESTIMATE FORM.—Abstract.

(To accompany the Detailed Estimate No. of 188 -8 for * _____.)

* Here enter the name and description of work in full.

ESTIMATE FORM.—Abstract.

Quantity.	Description of Work.	Rate.	Per	Amount.	TOTAL.
		RS.		RS.	RS.
				2290	
1.13	Flooring lower record-room with asphalte 3/4" thick	30-0-0	Sq.	34	
22-26	Plastering interior two coats	4-0-0	"	89	
20.71	Pointing or plastering exterior	4-0-0	"	83	
5.60	Painting doors, windows and exposed wooden work with three coats of Carson's oak paint	5-8-0	"	31	
20	Wood oiling roof timbers 3 coats	3-8-0	"	70	
	Add extra for turning finials finishing brackets &c.	—	—	25	
				2622	
	Contingencies 5 per cent	—	—	128	
	Petty supervision for 3 months	—	—	60	
					2810

P Montgomerie
Lieut Col R.E
Supdg Engr 1st circle

Grand Total of Estimate .. 2810

STATION

Dated 3-12-84

Executive Engineer.

AB 24/11

REFERENCE TO MADRAS P. W. D. CODE.

PARAS. 1074, 1075, 1086, 1087, 1091 TO 1094, 1108, 1111 TO 1114, 1130 AND 1145 TO 1147.

P. W. D FORM. No. M 207.

CIRCLE— 1st

DIVISION— Godavari Western

ESTIMATE FORM.—Abstract.

(To accompany the Detailed Estimate No. 514 of 188 -8 for * _____.)

Constructing Sub Registrar's Office at Bhimavaram

* Here enter the name and description of work in full.

No. 514 of 1884-85.

Fund— Provincial Service [Provincial]

Service Head— Civil Buildings

Departmental Head— Original works

Main Head— 26 Miscellaneous

Sub-head(a)— Nil

Project of which the work forms part(a)— —

Name of Work— Constructing Sub Registrar's Office at Bhimavaram

Amounting to Rupees Rs. 2810

To be carried out by Departmental agency

No.	Sub-head.	Quantity.	Rate. Rs.	A.	P.	Per	Amount. Rs.	A.	P.
2916 cft.	Excavation for foundation	2916 cft.	2	8	"	1000 cft.	8	"	"
	Concrete cft.	729	13	12	"	100 cft.	100	"	"
	Brickwork in foundation and basements	1562	23	"	"	"	359	"	"
	Do in superstructure	2678	23	"	"	"	616	"	"
	Archwork	100	25	"	"	"	25	"	"
	Cutstone in steps & under post	12	"	11	2	1 cft.	8	"	"
	Teakwood wrought & put up	180	3	4	"	"	585	"	"
	Venetian and panel doors with frames of entrance	23	1	9	"	1 sft.	36	"	"
	Batten doors covered on the outside with sheet iron 1/8" thick	18	2	12	"	"	50	"	"
	Venetian windows	50	1	14	"	"	94	"	"
	Batten windows with glazed shutters & iron bars covered with sheet iron on the outside	31	4	12	"	"	147	"	"
	Glazed ventilator with frame	5	1	14	0	"	9	"	"
	Raising in Clerk's room	9·50	1	4	"	"	12	"	"
	Cornice round room	52	"	5	"	R ft.	16	"	"
	Spiral steps	—	—	—	—	—	50	"	"
	Roofing with flat and pan tiles, Chunam bands	8·57	8	"	"	1 sft.	69	"	"
	~~Total Rupees~~ ..	..	..	..	..	..			

(a) These lines will not be required in the case of Minor Works and Repairs.

Executive Engineer

NOTES.

REFERENCE TO MADRAS P. W. D. CODE.

CHAPTER VII.—PARAS. 998, 1019, 1029 AND 1034.

1. In this Form the Examiner should be furnished by sanctioning authorities with abstracts of estimates for all works estimated to cost more than Rs. 200, immediately after sanction has been accorded.

2. The abstract of the sanctioned estimate to be furnished to the Examiner is to be an *exact* copy of the abstract of the detailed estimate sanctioned. In framing this abstract, however, care should be taken only to enter such of the sub-heads as are to be separately shown in the accounts of the work.

3. The abstracts of estimates submitted for the sanction of Government should be in duplicate, one copy being intended for the Examiner, the other being returned after sanction to the Superintending Engineer or Superintendent of Works, for record.

4. In the duplicate copies of abstracts intended for the Examiner, the following information should be filled in by the Executive Engineer.

Probable duration of execution of work .. .. .. Months.

Probable No. of Work Vouchers that will be required ..

P. W. D. Madras,
Form No. M 77 *a*.

BUILDINGS AND ROADS.

DIVISION

Abstract of Estimate framed by ____________

for * ____________

* Here enter name of work.

No. of 188 -8 .

Fund—

Service Head—

Departmental Head—

Main Head—

Sub-head(*a*)—

Project of which the work forms part(*a*)—

Name of Work—

Amounting to Rupees

To be carried out by

No.	Sub-head.	Quantity.	Rate. RS.	A.	P.	Per	Amount. RS.	A.	P.
	Terrance roofing for record room	2.84	20	"	"	sq.	57	"	"
	Slope terracing for spiral roof	0.69	–	–	–	–	15	"	"
	Flooring with 8" square bricks over a levelling course of wall bricks	4.82	7	"	"	"	34	"	"
	Flooring lower record room with asphalte 3/4" thick	1.13	30	"	"	sq.	34	"	"
	Plastering interior two coats	22.26	4	"	"	"	89	"	"
	Pointing or plastering exterior	20.71	4	"	"	"	83	"	"
	Painting doors, windows and exposed wooden work with three coats of Carson's oak paint	5.60	5	8	"	"	31	"	"
	Wood oiling roof timbers 3 coats	20	3	8	"	"	70	"	"
	Add extra for turning finial finishing brackets	–	–	–	–	–	25	"	"
							2622	"	"
	Contingencies 5 per cent	–	–	–	–	–	128	"	"
	Petty supervision for 3 months	–	–	–	–	–	60	"	"
	Total Rupees ..	..	..		....	..	2810	"	"

(*a*) These lines will not be required in the case of Minor Works and Repairs.

[signature] Lieut. Col. R.E.
Supg. Engr. 1st circle

[signature]
Executive Engineer
3-12-84

Compd [initials] 27-11-84

AB 24/11

NOTES.

REFERENCE TO MADRAS P. W. D. CODE.

CHAPTER VII.—PARAS. 998, 1019, 1029 AND 1034.

1. In this Form the Examiner should be furnished by sanctioning authorities with abstracts of estimates for all works estimated to cost more than Rs. 200, immediately after sanction has been accorded.

2. The abstract of the sanctioned estimate to be furnished to the Examiner is to be an *exact* copy of the abstract of the detailed estimate sanctioned. In framing this abstract, however, care should be taken only to enter such of the sub-heads as are to be separately shown in the accounts of the work.

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4. In the duplicate copies of abstracts intended for the Examiner, the following information should be filled in by the Executive Engineer.

Probable duration of execution of work .. .. .. Months.

Probable No. of Work Vouchers that will be required ..

P. W. D. Madras
Form No. M 77 a.

BUILDINGS AND ROADS.

DIVISION Godavari Western

Abstract of Estimate framed by Executive Engr Western Dn Godavari **for*** Constructing Sub Registrars Office at Bhimavaram

* Here enter name of work.

To accompany Letter
No 2482 GDD 23rd January 85
from the Supg Engineer
I Circle to the Chief Engr
D. P. W.

Revised

No. 574 2810 of 1884-85

Fund — Provincial Services (Provincial)

~~Financial Head~~—

Service
~~Budget~~ Head— Civil Buildings

Departmental Head— Original works

Main Head— (20) Miscellaneous.

Sub-Head— Nil

Project of which the work forms part— —

Section— —

Name of work— Constructing Sub Registrars Office at Bhimavaram

Amount of Estimate— Rs 2810

To be carried out by— Departmental agency.

REFERENCES.

REFERENCE TO MADRAS, P. W. D. CODE.

CHAPTER VII—PARAS. 968 AND 968 A.

P. W. D. Madras,
Form No. M 77.

ESTIMATE FORM—WRAPPER OR OUTER SHEET.

1st CIRCLE

DIVISION— Godavari Western

TALUQ—

Estimate for* Constructing Sub Registrar's Office at Bhimavaram

Amount of Estimate Rs. 2810

Detailed Estimate No. 5/4 of 1884-85

---

*Here enter name and description of work in full

No. 2482 G/D

From, The Superintending Engineer
1st Circle.

To, The Chief Engineer
Public Works Department.

Encls.
2 estimates
(in duplicate)

Dowlaiswaram 23rd January 1885.
Dep. do.

Sir,

I have the honor to forward herewith 2 Abstract Estimates, in duplicate for × Rs. 2810. constructing Sub Registrar's Offices at Bhimavaram and ⊗ Rs. 2,800. Tanuku in the Godavari Western Division, prepared in accordance with the Type Design circulated with G.O. No. 100 W dated 17th January 1884, and to request you will be good enough to obtain the sanction of Government to the same in lieu of those sanctioned in G.O. No. 1202 W. dated 21st April 1883.

I have the honor to be
Sir
Your most Obedient Servant

Asstt. Engineer
for Superintending Engineer 1st Circle

JK

From

The Supg Engineer

I Circle.

To

The Chief Engineer

D.P.W.

Madras

Dated 23rd
Desp. 23rd } January 1885
Recd

No 2482 GD.

Encl. 2

Sub Registrar's offices at Bhimavaram and Tanuku in the Godavari Western Division.

Requests to obtain the sanction of Government to the revised estimates for constructing

PUBLIC WORKS DEPARTMENT.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

UNDER date the

READ the following

From the Supg. Engr. I Circle No. 2482 G.D. a/23. Jany/85

The revised estimates submitted with this letter for sub registrar's offices at Tanuku and Bhimavaram are based on the type design circulated with G.O. No 1005 dated 14th January 1884, to which the Inspector General of Registration has recently taken exception. The question of revising the type design to meet the requirements of the Inspector General of Registration is now under consideration,

consideration, and pending a decision on the matter the estimates now submitted will lie over.

2. The current year's allotment of Rs 1,000 to each of the two works, is resumed, and added to the Provincial reserve with Government.

3. The attention of the Supdg Engr. I Circle is drawn to para 1168A of the P. W. Code, under which these estimates should have been submitted through the Inspr Genl. of Registration

CB.
14.2.85

[illegible]
14.2.85

[illegible] 27/2 27/2

To
The Supg: Engr I Circle
" Examr P.W. Accts
" Judicial Department

[illegible] 17.2.85

As these Estimates provide for buildings on the design already objected to by the I. G. R. it is useless forwarding them to him, & we must simply await the revision of plans which Govt. will have to carry out as soon as reply comes from the Judicial Dept.

[illegible]
9.2

Public Works Department, 1884-85.

Current No. 906
Letter No. 2482 G.D.
Dated the 23rd January/85.
From the S.E. I Circle

NOTE OF REMARKS.

1. The following two abstract estimates have been submitted:—(a) An abstract estimate for constructing a Sub Registrar's Office at Tanuku — Rs. 2,800; and (b) an abstract estimate for constructing a Sub Registrar's office at Bhimavaram — Rs. 2,810. — The estimates (a) and (b) are intended to supersede those sanctioned in G. O. No. 1202 W. of the 21st April/83.

2. A report has not been submitted but it may be assumed that each of the above offices, (a) and (b), is to be built in the same compound with a cutcherry on the stand[illegible]

plan as it is to be constructed according to the type design for Sub Registrars' offices sanctioned in G.O. No. 100 W. of the 14th Jan. 1884.

3. Except in the items doors, windows, and ventilators, the abstract estimates, (a) and (b), accord exactly with the abstract of the sanctioned estimate.

4. The estimates (a) and (b) have not been counter-signed by the Inspr. Genl. of Registration.

9th Feb. 1885

BH

Dw. These estimates provide for a change of design, & hence they have been submitted through the I.G. of Regn.

The I.G. has objected to the type design circulated with G.O. 100 W of 14.1.84, & the question of issuing a revised design is under consideration.

Vide limited file Cy

Extract from letter No. 558 dated 16th February 1885 from the Executive Engineer Godavari Western Division to the Superintending Engineer 1st Circle.

× × ×

I have the honor to state that I cannot possibly utilize the following grants under head Provincial.

Works & head	Existing grant	Amount now surrendered.	Remarks.
First Class Taluq Cutcherry at Bhimavaram	10000	4000	✓
Do Do at Tanuku	10,000	4000	✓
Sub Registrar's Office at Tanuku	1000	300	✓

I was unable to inform you of this before, as I was not informed until the 13th Instant of the amount of work that would be turned out for the buildings by the Dowlaishweram Workshops.

I have &c.

(Signed) J. Paul

Executive Engineer.

A

No. 2667 G.D.

Submitted to the Chief Engineer Public Works Department with the request that the grants herein surrendered may be resumed.

Dowlaiswaram }
23rd Feb: 85 } W. Mathews.
Despd do } for Superintending Engineer 1st Circle.

2558 W 18-10-84
397 W 17-2-85

397 W d/ 17/2/85
1202 W d/ 21/4/83
100 W d/ 14/1/84
112 C d/ 19/1/85
2882 W d/ 18/11/84
483 W d/ 21/2/84
2558 W d/ 18/10/84
3155 W d/ 23/12/84

From

Pr. Cey. 1816

The Supg Engineer
I Circle

To

The Chief Engineer
P.W.D
Madras.

Dated 23rd
Despd 23rd } February 1885
Recd 2.3.85

No 2667 G.D.

Encl. 1

Grants under head
"Provl." in the Godavari
Western Division.

Submits extract from
Divisional Offr's letter
Requesting that the surrender
of — may be resumed.

B/

No. 491. W

P.W. Department

Proceedings of the Madras Government

under date 4th March/85

Read the following: —

Letter from the Suptg: Engr: I. Circle W.E. No. 2667. G.D. d/ 23rd Feby/85.

The following sums are resumed and added to the Provincial reserve with Government.

	Rs
First class Taluk Cutcherry at Bhimavaram	4000
Do — Do — at Tanuku	4000
Total	8000

The current years grant

for the Sub registrar's office at Tanuku has already been resumed - *vide* para. 2 of G.O. No. 397. W d/ 17th Feby: /85.

C.U.

3 - 3 - 85

B. No. 491. W d/ 4th March /85

[illegible] 4/3

S.E. I Circle
Ex. P.W. accts.
~~[illegible]~~

Desp'd 4-3-85

[illegible]d 13/3 { 6/3

KW

R.S.

NO. 2742 G.D.

FROM,

THE SUPERINTENDING ENGINEER

FIRST CIRCLE.

TO,

THE CHIEF ENGINEER P. Wks Department ~~FOR IRRIGATION~~

DOWLAISHWARAM, 6th March 1885.

Desp'd 9th

SIR,

In reference to G.O No. 138 W. dated the 16th January 1885, I have the honor to request that you will be so good as to allot the additional sum of Rs 470 asked for in my letter No. 2270 G.D. dated the 22nd December 1884 from the allotment surrendered in my No. 2667 G.D. dated the 23rd February 1885.

2 The Godavari Western Division Officer reports that the work for which the additional sum is needed, is urgently required to be done before the hot weather sets in.

I have the honor to be,
Sir,
your most obedient St.

[illegible] Asst. Engr.
For Supg. Engr. 1st Circle.

3K

FROM,

THE SUPERINTENDING ENGINEER

FIRST CIRCLE.

TO,

THE CHIEF ENGINEER D.P.W.
~~FOR IRRIGATION.~~
Madras

DATED 6th March 1885.
DESPATCHED 9th
RECEIVED

No. 2742 GD.

ENCLOSURES. —

Additional Sum of Rs 470 asked for from the allotment surrendered in letter No 2667 GD dated 23rd February 1885.

Requests to attch the —

PUBLIC WORKS DEPARTMENT.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

UNDER date the 18 March 85

READ the following

From
The Supdg. Engr. I Circle (A & D No 2742 Dt. 6th March 85)

An allotment of Rs 470 is made from the Provincial Revenue into Govt. Deposit to the Godavari Western Division, under Provincial Civil Buildings, Minor Works.

C.N. 16.3.85

J.S. 16.3.85

S.E. I Circle
Exd: P.W.D.

Draft 18-3-85

R.S.