

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil Works.

No. 282.

READ—the following papers:—

From Colonel H. L. PRENDERGAST, R.E., Superintending Engineer, Fifth Circle, to the Chief Engineer, Public Works Department, dated Chepauk, 24th July 1882, No. 1546.

With reference to your memorandum, No. 2045, of the 3rd September 1881, to the Superintendent of Works at the Presidency, I have the honor to submit for sanction two estimates for modifying the

bridges on the South Beach Road at Madras—

	RS.
1. Bridge south of Ice House. Widening the road, closing the existing arch with a tunnel in the centre	1,160
2. Bridge near St. Thomé. Do. do. do.	1,520

2. Funds are available from the sum of Rs. 15,000 provided in the budget, Item No. 49, for alterations and improvements of bridges. The third old bridge on the South Beach Road will be dealt with by Mr. Chisholm's estimate, which has been sanctioned in G.O., No. 1700 W., of the 6th July 1882.

No. 548 E.

Transferred to the Consulting Architect for disposal in connection with the estimate sanctioned in G.O., No. 1700 W., dated 6th July 1882. Should the present estimates be required, they can only be sanctioned as supplemental to the larger estimate.

(By Order.)

7th August 1882.

(Signed) ROSS THOMPSON, Lt.-Col., R.E.,
Ag. Dy. Chief Engineer, P.W.D.

No. 282-A.

From R. F. CHISHOLM, Esq., Consulting Architect to Government, to the Chief Engineer, Public Works Department, dated Chepauk, 9th January 1883, No. 821.

I have the honor to return the papers regarding the conversion of the two existing bridges south of the Ice House into culverts.

I would suggest that the culvert nearest to St. Thomé should be a double culvert. Although a single culvert would be capable of passing off the heaviest rainfall known in Madras in 24 hours, the least accident or blocking of the passage might flood an area of 1,500,000 square feet.

No. 282-B.

From Colonel H. L. PRENDERGAST, R.E., Superintending Engineer, Fifth Circle, to the Chief Engineer, Public Works Department, dated Chepauk, 26th January 1883, No. 3710.

The estimate for the bridge nearest St. Thomé has been revised and the papers are returned. If the estimates are sanctioned at once, both the works may be completed in the current year.

2 Abstract Estimates.
2 Reports.

No. 283.

ORDER—dated 30th January 1883, No. 334 W., Public Works.

The undermentioned estimates are sanctioned as supplemental to the one sanctioned in G.O., No. 1700 W., dated 6th July 1882 :—

	Amount of Estimate.	Register No.
(1.) Constructing a double culvert in lieu of the existing bridge near St. Thomé on the Beach Road ...	2,055	Provincial No. 218 W. of 1882-83.
(2.) Substituting a tunnel for the bridge near the Ice House ...	1,160	Provincial No. 219 W. of 1882-83.
Total ...	3,215	

2. Rs. 2,680 are provided for the work in the current year's Provincial Budget, and the balance required, Rs. 535, is appropriated from the Provincial Reserve.

3. These sanctions have been registered as Provincial Nos. 218 W. and 219 W. of 1882-83 and classified as Miscellaneous Public Improvement, Original Works.

(True Extract.)

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

To the Superintending Engineer, Fifth Circle, with four Enclosures.

„ Examiner, Public Works Accounts.
„ Consulting Architect to Government.
„ Financial Department.

Exd. A. F. Goodall.
Spare Copies

BUILDINGS AND ROADS.
CIVIL WORKS.

Govt. of {1883} Madras.

PUBLIC WORKS.

Dated January, 30th.

Recd.

Encl.

G.O., 30th Jan. 1883, No. 334 W.

JANUARY.

Nos. 282-283.

**Bridges near St. Thome and
the Ice House, Madras.**

Sanctioning two estimates for the construction of a double culvert in lieu of the former and the substitution of a tunnel for the latter.

24TH JULY 1883, No. 2026 W., PUBLIC WORKS.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil Works.

READ—the following letter from Colonel H. L. PRENDERGAST, R.E., Superintending Engineer, Fifth Circle, to the Chief Engineer, Public Works Department, dated Chepauk, 5th July 1883, No. 1344 :—

I have the honor to submit, for sanction, a plan and estimate of Rs. 4,590 for forming a ride on the west side of the South Beach Road at Chepauk from the Napier Bridge to the south end of the Senate House, and for improvements in the east approach to the Senate House.

1 Detailed Estimate with Report and Specification.
2 Abstract Estimates.
1 Plan (Tracing).

2. I have to observe that there are not funds available to allow of this work being carried out. There is an allotment of Rs. 5,000 in the Budget, Part I, Class A, Item No. 69 ; but it is calculated that Rs. 3,000 are required for the current expenditure under the supervision of Mr. Whiteside, the Member of the Revenue Board in charge of the Chepauk Park, and in my letter, No. 1277, of the 28th ultimo, I have been obliged to recommend the transfer of the balance, Rs. 2,000, in order to provide for unfinished works of last year.

ORDER—dated 24th July 1883, No. 2026 W., Public Works.

The estimate, amounting to Rs. 4,590, for forming a ride on the west side of the South Beach Road near Chepauk, is sanctioned for execution when funds are available.

2. This sanction has been registered as Provincial No. 76 W. of 1883-84 and classified as Miscellaneous Public Improvement, Original Works.

(True Extract.)

(Signed) R. H. SANKEY, Major-General, R.E.,
Secretary to Govt., P.W.D.

To the Superintending Engineer, Fifth Circle, with Memorandum and three Enclosures.
„ Examiner, Public Works Accounts, with duplicate Abstract Estimate.
„ Financial Department.

Exd. A. F. Goodall.
Spare Copies

BUILDINGS AND ROADS.
CIVIL WORKS.

Govt. of (1883) Madras.

PUBLIC WORKS.

Dated July, 24th.

Recd.

Encl.

G.O., 24th July 1883, No. 2026 W.

JULY.

A Ride

*Estimate for forming — on the South Beach
Road near Chepauk, sanctioned.*

14TH SEPTEMBER 1883, No. 2585 W., PUBLIC WORKS.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil Works.

ORDER—dated 14th September 1883, No. 2585 W., Public Works.

The estimate sanctioned in G.O., No. 2026 W., of the 24th July 1883, for "forming a ride on the west side of the South Beach Road near Chepauk," should be treated as supplemental to the sanction accorded in G.O., No. 1700 W., dated 6th July 1882, for "widening the promenade between the Napier Bridge and Triplicane Creek Bridge, and for other improvements at Chepauk."

(True Extract.)

(Signed) R. H. SANKEY, Major-General, R.E.,
Secretary to Govt., P.W.D.

To the Superintending Engineer, Fifth Circle.
,, Examiner, Public Works Accounts.
,, Financial Department.

Exd. A. F. Goodall.
Spare Copies

BUILDINGS AND ROADS.
CIVIL WORKS.

Govt. of (1883) Madras.

PUBLIC WORKS.

Dated September, 14th.

Recd.

Encl.

G.O., 14th Sept. 1883, No. 2585 W.

SEPTEMBER.

A Ride

The estimate sanctioned for forming — on the South Beach Road near Chepauk, ordered to be treated as supplemental to the estimate sanctioned for widening the promenade on that road, and for some improvements at Chepauk.

6TH DECEMBER 1883, No. 3497 W., PUBLIC WORKS.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil Works.

READ—the following papers:—

From D. DUNCAN, Esq., M.A., D.Sc., Registrar of the University of Madras, to the Chief Secretary to Government, dated Madras, 14th November 1883, No. 189.

I am directed by the Syndicate to inform you that since the opening up of the new road near the Marine Villa, and the removal of the railing along the beach road, the approaches to the Senate House as well as the surrounding grounds have been used by foot passengers as a thoroughfare.

2. The Syndicate have directed me to point out that it is most undesirable that the Senate House approaches should be used for this purpose, even should persons keep off the grass, which they will not. For many months of the year the work carried on in the Senate House in connection with the examinations is of a semi-confidential nature, and while examinations are actually being held it is of the utmost importance that the University should have the power to regulate the number and character of those who come near the examination room. Besides this, the vaults under the central hall, in which a large stock of moveable furniture is kept, and from which there is easy access to the building itself, are quite open and exposed to every passer-by.

3. I have therefore been directed to request that Government will be pleased to take early steps to prevent the Senate House approaches being made a public thoroughfare.

No. 2280, Public.

Transferred to the Public Works Department for consideration.

(By Order.)

23rd November 1883.

(Signed) E. S. LAFFAN,
Acting Under Secretary.

No. 2339 C, Public Works.

Referred to the Consulting Architect for early report.

CHEPAUK,
29th November 1883.

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

From Major J. L. L. MORANT, R.E., Officiating Consulting Architect to Government, to the Chief Engineer, Public Works Department, dated Chepauk, 30th November 1883, No. 1139.

In reply to your endorsement, No. 2339 C., dated 29th November 1883, on letter, No. 189, of the 15th November 1883, from the Registrar of the University of Madras (herewith returned), I have the honor to report that on the 22nd February 1882 he

addressed the Consulting Architect, requesting him to furnish an "estimate of the cost of putting iron bars across the openings leading down to the vaults of the Senate House." Mr. Chisholm, on the 15th of March 1882, accordingly sent the Registrar a plan and estimate (latter amounting to Rs. 2,240) for this work. No reply has been received to Mr. Chisholm's letter, &c. On the 27th May 1882 the Chief Engineer, referring to a verbal explanation, directed Mr. Chisholm to submit estimates for "removing the iron railings on the sea-face and substituting a *low dwarf wall*, as per design," in front of the Senate House, Madras. A plan and estimate was in due course submitted and sanctioned in Public Works G.O., No. 1700, dated 6th July 1882, and the work has been carried out by Executive Engineer, Presidency Division.

2. I am informed that in ordering the dwarf wall, Colonel Sankey intended to throw the Senate House grounds open to the public frequenting the beach.

ORDER—dated 6th December 1883, No. 3497 W., Public Works.

The foregoing letter from the Consulting Architect to Government will be communicated to the Public Department.

2. Under the circumstances stated, it does not appear feasible to exclude the public from the Senate House grounds.

3. It is noticed that an estimate for protecting the openings leading to the vaults was sent for approval in March 1882 to the Registrar of the University, who has not yet replied to the reference.

(True Extract.)

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

To the Public Department.

„ Consulting Architect to Government.

BUILDINGS AND ROADS.
CIVIL WORKS.

Govt. of (1883) Madras.

PUBLIC WORKS.

Dated December, 6th.

Recd.

Encl.

G.O., 6th Dec. 1883, No. 3497 W.

DECEMBER.

Senate House

Passing orders on correspondence regarding the approaches to the — at Madras being made a thoroughfare.

Endorsement No. 824
W

Dated 11th October/83.

Returned to the
Secretary to Government
P.W. Department.

D. P. Condon

Examiner of Accounts

Secy. Madras

SP. 11/10

11/10

Encs: 2.

NOTES.

REFERENCE TO MADRAS P. W. D. CODE.

C. XIII.—PARAS. 1739, 1758 AND 1759.

1. Cases of departure from the sanctioned plan or specification of a work will be reported in this form. The entries will usually be filled in by the Executive Engineer himself, or from notes furnished by the Executive Engineer or other Officer in charge of the work. Mere excesses over estimate find their place in the Divisional Statement of Objectionable Items, P. W. Form No. M 32, and should not be included in the Deviation Statement.

P. W. D. Madras.
Form No. M 31.

DIVISION.—

MONTH.—

Statement showing Deviations in the Course of Actual Construction of Works from the sanctioned Specifications and Dimensions, excluding Deviations already reported.

(To accompany the Accounts for the above month.)

CERTIFICATE.

I hereby certify that, with the exception of trivial cases and those detailed in the accompanying Statement, I have not allowed any departure from the measurements and specifications of sanctioned estimates. I also certify that the accompanying Statement exhibits, to the best of my knowledge, all cases in which existing estimates require revision.

Executive Engineer,
Division.

Station Bangalore
Dated 4.9.83

CR. C/203
4.9.83.

To, The Supg Engineer,
B. W. H. R.

P.W.D. 1903 for the account

NAME OF WORK.	Sub-head in which Departure occurs.	NATURE OF DEPARTURE.	
		Original or Sanctioned Arrangement.	Arrangement as being or to be carried out.
Constructing a double culvert in lieu of the existing bridge near St. Thome on the Beach Road Estimate Rs 2055.	(1) Excavation	Quant. 7053 cft. Rate Rs 4/10/- p 1000 Cost Rs 33--	Quant. 15656 cft. Rate Rs 4.10-- p 1000 Cost Rs 72--
	(2) Concrete	Quant. 1580 cft. Rate Rs 13.4.10 p 100 Cost Rs 12--	Quant. 2481 1/2 cft. Rate Rs 13.4.10 p 100 Cost Rs 346--
N.B. This Estimate is a Supplemental one to the Estimate for the South Beach Promenade Est. Rs 48,615. 45,400	(3) Brick work in chumars.	Quant. 6954 cft. Rate Rs 15.10. p 100 Cost Rs 1086--	Quant. 8318 7/8 cft. Rate Rs 15.10 p 100 Cost Rs 1299--
tunnel near see above } 1160 48615	(4) Semicircular arch work.	Quant. 1013 cft. Rate Rs 22.6.6 p 100 Cost Rs 227--	Quant. 1428 cft. Rate Rs 22.6.6 p 100 Cost Rs 320--
Excess as per Sanctioned already for Promenade work } 721 49336	(5) Plastering	Two coats (colored) Quant. 34182 sq Rate Rs 2.8.0 Cost Rs 86--	One coat white only. Quant. 2768 sq Rate Rs 1.9. p 100 Cost Rs 43--
	(6) Plastering the culvert with 2 coats Cement.	Quant. 13.03 sq Rate Rs 6.4-- Cost Rs 81--	Quant. 1907 sq Rate Rs 6.4-- p 100 Cost Rs 119--
	(7) Filling with Sea Sand.	Quant. 18285 cft. Rate Rs 2.8. p 1000 Cost Rs 46--	Quant. 57,843 cft. Rate Rs 2.8. p 1000 Cost Rs 145--
		Carried over Rs 1571--	Rs 2344--

The Estimate (Rs 2055) provided for removing the existing parapets of the bridge and putting up walls at each side keeping the roadway to its present width. While the work was in progress, it was thought necessary to make the pathway 16 feet wide, the same as is now being done at Chepauk. This involved extra brick work, earth work, gravel and road metal etc. as per this Variation Statement.

It will not be necessary to widen the bridge when the improvements to the Promenade is extended to this point and thus saving the cost of building another retaining wall.
The sanctioned amount of Estimate will be exceeded by Rs 938- for which excess sanction is requested.

REASONS.

RESULTS ANTICIPATED.

Orders of the Superintending Engineer in each Case.

NAME OF WORK.	Sub-head in which Departure occurs.	NATURE OF DEPARTURE.	
		Original or Sanctioned Arrangement.	Arrangement as being or to be carried out.
Brought forward.		Rs 1571-00	Rs 2344-00
(8)	metalling 6" laterite and 2" gravel well beaten down	Quant. 6495 sq. Rate Rs 3.20 Cost Rs 212-00	Quant. 93 sq. Rate Rs 3.20 Cost Rs 291-00
(9)	Brick in mud.	Nil.	Quant. 159 1/2 cft. Rate Rs 11.68 p 100 Cost Rs 17-00
(10)	petty supervision	Rs 56-00	Rs 62-00
(11)	contingencies	Rs 90-00	Rs 133-00
Total		Rs 1909-00	Rs 2847-00
		Excess Rs 938-	

Reasons.	RESULTS ANTICIPATED.	Orders of the Superintending Engineer in each Case.
Vide remark on 1st page.	Vide remark on 1st page.	<p>Encls. 1 Comparative statement. No 2288</p> <p>Recommended to the Chief Engineer for sanction. The Corp amount of Rs 988 is within 8 per cent of the estimate for the Culverts & Road made work. Taken together, both aggregating Rs 48615, but the Engineer objects to it being so done. Grand total for days the corp charged on each complement work should receive separate sanction.</p> <p>W. H. Burton</p> <p>Lt. Col. R.E.</p> <p>Supt. Eng. & Pres. Dir.</p> <p>4. 9. 83</p> <p>20 September 1883.</p> <p>Chief Engineer as to Cor. R.E.</p> <p>Supt. Engineer as to Cor.</p>
No 203	Forwarded to the Supt. Eng. & with reference to his No. 1868 d. 16 Aug 83.	

REFERENCE TO MADRAS P. W. D. CODE.

CHAPTER VII—PARAS. 968 A, 1002 AND 1003.

ESTIMATE FORM.—COMPARATIVE STATEMENT OF
DIFFERENCES.

CIRCLE

DIVISION—

DISTRICT—

To accompany the Revised Estimate

No. of 188 -8 , for *

• Here enter the Name and Description of work in full.

Widening the roadway and
closing the existing arches of
the Arch bridge over the River
near Saint Thomas and building
a two vent Culvert in its
place.

ESTIMATE FORM.—COMPARATIVE STATEMENT OF DIFFERENCES.

Description of Work.	ORIGINAL ESTIMATE.		REVISED ESTIMATE.			More.	Less.	Explanation of Difference.
	Quantity.	Rate.	Amount.	Quantity.	Rate.	Amount.		
1	2	3	4	5	6	7	8	9
		Rs.	Rs.		Rs.	Rs.	Rs.	10
Demolishing 2 ^d frame pavement Excavation Concrete Brick in Churn Semi Circular Arch work	554 435 7053 16800 6957 1043	2-1-4 1- 4-10- 18-4-10 15-0- 22-6-2	12 4 33 12 1006 227	1535 14398 2476 8304 1428	- - 4-10- 4-10- 15-10- 22-6-2	12 4 67 348 1298 320	39 33 33 33 33 33	The original estimate provided for removing the existing pavement of the Bridge and putting up walls at the sides keeping the roadway at its present width. But the work was in progress it was thought necessary to make the pathway 16 feet wide the same as is being done now in Chapank. This is the cause of the increase and the same explanation holds for A.B.C.
Plastering walls with 2 coats of colored Churn	3432	2-8-	86					86 It was found no necessary on account of earth having been thrown up against part of the wall.
Plastering walls with one coat of Churn Plastering 2 coats of Cement Filling with sea sand Brickelling 6" bedrick and 2" gravel well beaten down	1303 10285 6795	6-4- 2-8- 3-2-	81 46 212	2609 1907 9300	1-3- 6-4- 3-2-	41 119 291	44 38 79	A B
Barting		-	104		-	104		
Removing 20 mchub		-	30		-	30		
Brick in Mud		-	-	159	10-6-8	17	17	
Petty Superannum		-	36		-	70	20	C
Contingencies		-	90		-	140	140	
							2998	86
							2055	1024
							938	

Amount already sanctioned R.R. 2055

Amount required for Section No 938

STATION
Dated 16 May 1883

A. Miller

Sub Engineer
Exchange Civil Works
Bengal

Inspector. L. H. P. S.

Executive Engineer.

Rs 2688 W

PUBLIC WORKS DEPARTMENT.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

UNDER date the

25 Sept 83

Read the following

Deviation Statement from H. E. No 2288 of 20th Sept. 1883
The Engrs Engr Fifth Circle

The excess expenditure of Rs 938 over the estimate of Rs 2055 for constructing a double Culvert in lieu of the existing bridge near St. Thome on the beach road, sanctioned in G.O. No 334 of 30th January 1883 is sanctioned.

2. The total amount sanctioned by Govt. for widening the Promenade the amount is Rs 52,143

3. The sanction accorded in para 1 has been registered as Provincial No 123 of 1883. 84 and classified as Miscellaneous Public Works Original Works.

The Engrs Engr Fifth Circle
a Examining P.W. Accounts
with deviation Statement for
note return.

22/9

C₁

C₁
22/9

A 334 x 30-1-83
- 2585 m 14-9-83

No 2688 Way 25-9-83

No 57 m of 1882. 83

Widening the Promenade
made between Napier
Bridge & Triplicane

Creek Bridge Rs 45400
No 218 m of 1882. 83

Constructing Double

Entrance in lieu of
existing bridge

near St. Thomas . . Rs - 2055

No 219 m of 1882. 83

Substituting a Tunnel
for the bridge near

the Lee House . . . Rs. 1150

No 26 m of 1883. 84

Farming a ride on
the west side of the
Smith beach road - Rs 4590

Amount now estimated Rs 938

Total Rs 54143

James
22/9