

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

General.
Establishment.

Nos. 43 & 44.

ORDER—dated 6th December 1882, No. 3211 W., Public Works.

In Proceedings of Government in the Financial Department, No. 609, dated 22nd March 1880, it was decided that the examination of plans and estimates of such Local Fund Works as might be of too important a character to be left altogether for disposal by the Local Fund Boards should devolve upon the Chief Engineer, who would be aided by an Executive Engineer of the Public Works Department to be attached to his office.

2. All *New Works* estimated to cost Rs. 2,500 and upwards and all *Repairs* estimated to cost upwards of Rs. 10,000, as well as such other works as might require special professional scrutiny, were required to be submitted for examination by the Chief Engineer.

3. To meet the cost of the establishment requisite for undertaking the work thus devolving on the Public Works Department, a contribution from Local Funds of Rs. 21,250 yearly was sanctioned.

4. Temporary arrangements were accordingly made by the Chief Engineer for undertaking the work, and these were sanctioned in Proceedings, No. 918 W., dated 10th April 1880.

5. The arrangements thus approved were, however, objected to by the Government of India, who considered (*vide* paragraph 5 of their letter recorded with G.O., No. 2387 W., dated 16th October 1880) "that the Madras Provincial Establishment should be so organized as to permit the Chief Engineer's Office, or the offices of Superintending Engineers of Circles, to examine all important Local Fund Projects; that for conducting these duties no special allowance should be made to any officer, but a fixed contribution sufficient to cover the services performed should be credited to the source from which such establishment is paid; and that the full contribution of Rs. 21,250 should be accepted, and the duties distributed as the Madras Government may consider desirable."

6. After some correspondence with the Government of India the principle of the proposed arrangements was agreed to, and the decision recorded in G.O., No. 1729 W., dated 14th July 1881, paragraph 10.

7. Since then the details of the scheme have been under consideration, and it has now been finally determined that the work shall be distributed between Superintending Engineers and the Chief Engineer in accordance with the principle of the Public Works Code Rules.

8. All Local Fund Projects therefore requiring in future to be scrutinized by the Public Works Department will in the first instance be sent to the Superintending Engineer of the Circle, who will be authorised to deal finally with the professional details of *New Works* estimated to cost above Rs. 2,500 and up to Rs. 5,000. Those costing above this amount will be sent forward by Superintending Engineers to the

Chief Engineer after undergoing the same examination as ordinary Public Works. All *Repair* estimates above Rs. 10,000 will be dealt with by Superintending Engineers as in the case of Public Works Repairs. Any estimate may however be sent on to the Chief Engineer should either the Superintending Engineer or the Local Fund Board concerned desire the opinion of that officer.

9. To admit of these arrangements being carried into effect, it will be necessary to slightly augment the offices of Superintending Engineers and the Chief Engineer, while improving the position of the senior Clerks in the offices of the former. Extra Draftsmen on a rate of pay superior to that hitherto provided for in the Public Works Department are also allowed. It is very desirable that men of superior attainments should be encouraged to qualify for the position of Draftsmen, and it is hoped that the enhanced rate of pay now sanctioned will act as some inducement.

Should the general standard of efficiency hereafter increase, the Government will be prepared to consider the propriety of still further augmenting the scale of pay in the higher appointments open to men of this class.

10. The following increases are now sanctioned to the offices of Superintending Engineers and the Chief Engineer, Public Works Department, the cost being covered by the contribution of Rs. 21,250 from Local Funds which the Accountant-General will, under orders in the Financial Department, arrange for bringing to account with effect from the current official year:—

<i>Superintending Engineer's Office.</i>		RS.	RS.
(1) Difference between present salary of Head Clerk and that now sanctioned, viz., between 2nd Class, 1st Grade, and 2nd Class, 3rd Grade = $180 - 110 = \dots$		70	
(2) Difference between present salary of Second Clerk and that now sanctioned, viz., between 2nd Class, 3rd Grade, and 3rd Class, 2nd Grade = $110 - 70 = \dots$		40	
(3) Extra Clerk, 3rd Class, 3rd Grade, Rs. 50 to 60— <i>mean</i> ...		55	
(4) Extra Draftsman from Rs. 80 to 100— <i>mean</i> ...		90	
Total per mensem ...		255	
Total per annum (Rs. 255 $\times$ 12) = ...		3,060	
For six Superintending Engineers (Rs. 3,060 $\times$ 6) = ...		18,360	
<i>Chief Engineer's Office.</i>			
(1) Extra Clerk, 3rd Class, 3rd Grade, Rs. 50 to 60— <i>mean</i> ...		55	
(2) Extra Draftsman (to supervise Technical Section) from Rs. 200 to 250— <i>mean</i> ...		225	
Total per mensem ...		280	
Total per annum (Rs. 280 $\times$ 12) = ...		3,360	
Total of Chief Engineer's and Superintending Engineers' Offices ...		21,720	

(True Extract.)

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

To Superintending Engineers.
To the Examiner, Public Works Accounts.
" Financial Department.

Exd. E. Fernandez.
Spare Copies

GENERAL.
ESTABLISHMENT.

Govt. of 1882 Madras.
PUBLIC WORKS.

Dated December, 6th.

Recd.

Encl.

G.O., 6th Dec. 1882, No. 3211 W.

DECEMBER.

Local Fund Works

Plans and estimates for — to be scrutinized by the Chief and Superintending Engineers, and increases to their office establishments sanctioned.

21ST FEBRUARY 1884, No. 483 W., PUBLIC WORKS.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil and Military Works.

ORDER—dated 21st February 1884, No. 483 W., Public Works.

In modification of the practice at present followed with regard to the submission of plans and estimates for buildings required by other departments, the Government direct that the following procedure be invariably adopted in future.

2. Plans and estimates for buildings required by the Revenue Department should be submitted by the Executive Engineer to the Superintending Engineer, who, after scrutiny, will forward them to the Collector of the district for approval and counter-signature. If the Collector be satisfied as to the suitability of the proposed accommodation, &c., he will transmit the papers through the Board of Revenue to Government in the Revenue Department, by whom, if approved, they will be transferred to the Public Works Department for disposal, after final scrutiny by the Chief Engineer.

3. In the case of plans and estimates for court-houses, the documents will be forwarded by the Superintending Engineer to the District Judge for transmission, through the High Court, to Government in the Judicial Department, and the same principle will be followed with regard to estimates for Registration, Police, Jail, and other Civil Departments. The Superintending Engineer will forward the documents to the Head of the Department concerned, who will submit them to Government in the Department of the Secretariat from which he receives his orders.

4. The course at present adopted with regard to estimates for Military buildings is laid down in G.O. No. 1381 W., dated 14th June 1880, but here also a modification of practice appears desirable. In future such plans and estimates will be forwarded by Superintending Engineers for approval to the General Officer Commanding the District or Division. The General Officer will transmit the papers to the Quartermaster-General, who,* after obtaining the approval of His Excellency the Commander-in-

* NOTE.—In the case of Ordnance, Commissariat or other departmental buildings, the approval of the head of the department should be obtained before the plans and estimates are submitted to His Excellency the Commander-in-Chief.

Chief, will submit them direct to Government in the Military Department. After approval in the Military Department they will be transferred to the Public Works Department for disposal, after final scrutiny by the Chief Engineer.

5. It must be understood that these orders apply only to works which are beyond the power of sanction of local authorities, and are not intended to alter the procedure laid down in G.O., No. 3211 W., dated 6th December 1882, with regard to the submission of Local Fund projects.

6. The Secretary, Code Committee, will take the necessary steps for embodying these rules in the Public Works Code, in modification of paragraphs 1168 and 1335.

(True Extract.)

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

To Superintending Engineers.
To the Consulting Architect to Government.
" Examiner, Public Works Accounts.
" Public, &c., Departments.
" Revenue Department.
" Military "

BUILDINGS AND ROADS.
CIVIL AND MILITARY WORKS.

Govt. of 1884 Madras.

PUBLIC WORKS.

Dated February, 21st.

Recd.

Encl.

G.O., 21st Feb. 1884, No. 483 W.

FEBRUARY.

Buildings required by other
Departments

Modification of the practice for the sub-
mission of plans and estimates for —.

4 1/2" of pavement has been
laid down, 4 1/2" of metal
should suffice"

6. Under the circumstances
of the case S. E. II has not
countersigned the revised
estimate.

30th May/84
RSH

Public Works Department, 1884-85.

Current No. 4445

Letter No. 509 & S.

Dated the 19th May/84

From the S. E. II Circle

NOTE OF REMARKS.

1. The accompanying is a revised estimate for metalling the Guntur and Chebrole road in the Krishna Dist. The amount of this estimate is Rs. 42,735 - Rs. 18,055 in excess of the original one, Rs. 24,680.
2. In submitting this estimate S. E. II asks for H. H. decision on the depth of metalling to be adopted in the present instance as the Guntur L. T. Board have accepted the opinion of their Engineer, in preference to the ruling of S. E. II on that point.
3. The L. T. Engr. proposes, after correct sectioning, that the worse parts of the road should first receive a close packed stone pavement 4 1/2" deep and above this metal

Co. 6-6-84

3" deep, with a gravel over-coating $1\frac{1}{2}$ " thick. The better parts of the road will receive only metal, $4\frac{1}{2}$ " deep, with a gravel overcoat $1\frac{1}{2}$ " thick — After the ~~slaps~~ of a year the surface of the road is to be picked up to a depth of $1\frac{1}{2}$ " and a second coat of metal spread over the whole of the first coat — 3" deep over those parts where the stone pavement has been provided, and $4\frac{1}{2}$ " deep where no pavement exists. Over this last coat of metal, gravel 1" deep will be spread. From the above it may be seen the estimate provides for the worse parts of the road — $4\frac{1}{2}$ " pavement, 6" metal, and $2\frac{1}{2}$ " gravel; for the better parts of the road — 9" metal and $2\frac{1}{2}$ " gravel. By this revised estimate the average cost per mile is nearly Rs. 4,400 — exclusive of the cost of original formation.

4. The L. F. Engr. states that a width of 15 feet was allowed to the metalling as the S.O. No. 245 of the 20th Jan/83 had not been received by him. He also states that the method of construction is due to the fact that the provisions of the original estimate will have been carried out before the sanction of the revised estimate now submitted. The explanation forwarded by the L. F. Engr. is not satisfactory in either matter or tone.

5. S.E. II. recommends that the worse parts of the road should receive $4\frac{1}{2}$ " pavement and $4\frac{1}{2}$ " metal; and the better parts, 6" metal and 1" gravel — (See H.S. Memo. No. 1534C of the 15th Aug. 1883 and D.H.S. note of the 3rd Aug./83 relative to depths of metalling) It is hard to say S.E. II recommends a pavement of stones — what he states is "that where

No. D. 4
GOVT. } 1884. { P. W.
OF MADRAS. } { DEPT.

SECRETARY.

Chepak, 5th June 1884.

OFFICE NOTE.

To W.

An estimate of Rs. 42,735 for metalling the Guntur-Chebrole road — Rs. 18,055 in excess of the original estimate of Rs. 24,680 — is sent up by S.E. II who asks for your decision as to the depth of metalling to be allowed.

Mr. Rundall took exception to the revised estimate as prepared, but the L.F. Board accept the opinion of their Engineer as to the provisions made and declined to alter them.

The objections raised by S.E. were to the width of 15 feet and to the great thickness of metalling allowed. For the parts of road in bad soil a pavement of $4\frac{1}{2}$ " stones is provided over which 6 inches of metal and $2\frac{1}{2}$ inches of gravel laid in two courses. For

G.C. 4834/21.2.84
" 32114/6.12.82
No 1137C 16.6.84
No 7194/16.3.87

P.W.C. No 5500

From,

The Suptg. Engineer,
2nd Circle.

To,

The Chief Engineer,
P.W. D.

Dated 8th July 1886.

Recd 15.7.86. Encl. 5
1 Plan

1137C 16.6.84.

No 573.H.S.

Encl. 5

Gunter - Chebrole Road.

Estimate of Rs 35,320 for
metalling — Submitting
for approval and the
sanction of Govt., an —

Received 28.7.86

Ass. 108/7.

G. 17.7.86 R. 23.7.86

Public Works Department.

Current No. 5500

Letter No. 573 H.S.

Dated the 8th July 1886

From the S.E. II Circle

NOTE OF REMARKS.

1. The accompanying second, revised estimate amounting to Rs 35,320 is for metalling the 1st ten miles of the Gunter Chebrole road in the Krishna District.
2. The original estimate amounted to Rs 24,680 and the first revised estimate to Rs 42,735.
3. Agreeable to the note of the Chief Engineer P.W. Department No 1137C dated 16th June 1884, this the 2nd revised estimate is submitted.
4. The objection to the first revised estimate raised by the Chief Engineer was

Now
This draft appears to have gone to the Ch. Secy. by mistake, before it was seen by you.

Cu 2.8.86

28.7.86 2.4.8.86

was great thickness of metal allowed and the description.

5. The estimate was accordingly revised and the thickness of metal considered sufficient by the S.E. II Circle adopted.

The specification & report explain clearly the manner in which each portion of road is to be metalled & the description of metal to be used.

The rates are fair.

C.S.
24.7.86

To D.W.

The estimate is not countersigned by the President of L.F. Board. but the J.E. at his request.

D.W.

The original estimate for Rs 24,680 was sanctioned in March 1881

In 1884. a revised estimate amounting to Rs. 42,725 was submitted but the thickness of metalling allowed being considered unnecessarily great. the estimate was returned for revision in accordance with the suggestion of S.E. II.

The second revised estimate amounting to Rs 35,320 is now submitted.

It has been revised in accordance with S.E. II's remarks except in two miles when owing to wear of the road some extra thickness has been allowed.

Recommend that the Estimate be sanctioned.

CW
24.7.86

recommended for sanction

For draft sanction 24/7/86
accordance with
order of 11th Nov 85. He
used stating that the
President's counter-
signature has been
given.

FB 24.7.86

No 1967 W

PUBLIC WORKS DEPARTMENT.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

7th August 1886.
Read the following

From the Suptg. Engineer II Circle. H. C. No: 573 K.S. d/s "July 1886.

The revised estimate amounting to Rs. 35,320, for metalling the road from Guntur to Chelvel in the Kistna District is sanctioned in supersession of the estimate of Rs. 24,680 sanctioned in G.O. No: 719 W dated 16th March 1881.

2. The estimate should have been countersigned by the President, District Board ^{prior to its submission} before it was submitted to Govt. for sanction.

3. This sanction accorded in para 1 of these Proceedings has been registered as Local No: 12 W of 1886-87.

Decd
9/8/86

To The Suptg. Engr. II Circle
Financial Department (L.F.)
with 5 enclos.

28/7/86

2.8.86

29.7.86

JP 21/7

G. 17.7.86 R. 23.7.86

S.A.W.

5300

This estimate has been submitted through the ~~proper~~ proper channel - vide - go. 3211 W of 6.12.82.

W desires that it be examined in Tech. section, & if it be all right, that an order be drafted sanctioning it in accordance with his remarks.

L. 7. estimates usually come from direct from S.E.s, & are usually sent the order to Ch. Secy for counterinitial.

Cu
21.7.86

President's counter. if considered necessary but the last few words of the pencil endorsement of the President apparently be omitted.

It may be pointed out however that the S.E. submits the estimate at "the desire of the President" who must therefore have approved it.

Cu
19.7.86

after scrutiny by the President's counter signature should have been obtained

W
10.7.86

B. No 1967 W of 7-8-86
8/16
17/8/86

W
7/8

out 10/8/86

6.17.86 R. 23.7.86

entd in RR of 8

To W

The Channel for
submission of Local
Fund estimates is
prescribed in G.O.
No 3211 W of 6.12.82.

Presidents of Dist.
Boards should send
estimates to Supy. Engrs.,
who forward those
above Rs 5,000 to
the Ch. Engrs.

The S.G. in this
Case has therefore
adopted the correct
course -

Para 5 of G.O.
No 483 W of 21.2.84
distinctly states that
the rules therein
prescribed do not
affect the orders
in No 3211 W of 6.12.82.

The present
estimate may be
returned for the

quest. J.D. 24.7.61.