7th November 1894, No. 2826 W., Public Works.

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil Works.

Read—the following papers :—

From the Executive Engineer, Kistna Northern Division, to the Superintending Engineer, II Circle, dated 1st June 1894, No. 37 S.E.

With reference to your endorsement No. 221 K.S., dated 4th May 1894, on G.O., No. 1038 W., dated 23rd April 1894, to the Executive Engineer, Kistna Eastern Division, and transferred by that officer to me for disposal, I have the honour to forward herewith an estimate, amounting to Rs. 10,800, for constructing quarters with outhouses for the Executive Engineer, Northern Division, Kistna, at Bezwada for your approval and sanction.

2. The rates allowed in the estimate are same as those given in the estimate for Head Assistant Collector's residence at Bezwada sanctioned in G.O., No. 2774 W., dated 31st October 1893.

No. 1349 K.S.

Forwarded to the Chief Engineer, Public Works Department, for favour of obtaining sanction of Government to the estimate and necessary allotment of funds to put the work in hand at once.

2. Rs. 5,000 will be required for this year.

(Signed) W. L. C. BADDELEY, Major, R.E.,
Superintending Engineer, II Circle.

14th September 1894.

Note by the Chief Engineer, Public Works Department.

In accordance with G.O., No. 1038 W., dated 23rd April 1894, the Superintending Engineer, II Circle, submits an estimate for constructing a residence at Bezwada for the Executive Engineer, Kistna Northern Division. The estimate amounts to Rs. 10,800, the rental on which would be in excess of the prescribed limit as fixed by G.O., No. 3242 W., dated 16th November 1889. It is therefore necessary to reduce it. This may be done by curtailing the area of the land to be taken up for the building. It is proposed to acquire 6·5 acres at Rs. 235 per acre. The area may be limited to 4 acres, by which a saving of Rs. 587 will be effected on land and about Rs. 38 on fencing.

2. The section proposed for the joists of the drawing, dining and bed rooms is slightly weak. The distance between points of support being 9 feet, a section of 3″ × 5¾″ as shown in table I, p. 46 of the standard specifications, should be provided in lieu of a section of 3″ × 5″ as estimated. The verandah rafters should also be increased from 3″ × 4″ to 3″ × 5″, the width of the verandah being 8 feet and the roof of sloping terrace.

3. It is noticed that the following rates are in excess of the divisional schedule rates :—

Terracing with brick on edge Rs. 24–8–0 as against Rs. 21–4–0,
Sloping terrace Rs. 18 as against Rs. 14–8–0,

and that no plans or detailed estimates are furnished for the out-houses.

4. It would be more symmetrical if the height of the store room and passage were on the same level as that of the main rooms, viz., 16 feet above floor; but the estimate provides for a height of 11 feet only as in the case of the rear terraced verandah. The building should be so constructed, the estimated increase of cost being Rs. 60.

5. Allowing for the reduction of Rs. 625 proposed in paragraph 1 above and the addition of Rs. 60 as shown in paragraph 4, the estimate will stand at Rs. 10,235, the rental on which will be as follows:—

	RS.
Estimated cost of construction	9,295
10 per cent. for establishment and tools and plant	929
Add cost of site	940
Total, capital cost ...	11,164
4 per cent. on capital cost to cover interest	446·56
3 do. do. for repairs	334·92
10 do. on repairs for establishment and tools and plant ...	33·49
Total, annual rent ...	814·97
Per mensem ... Rs.	68

which is 8 per cent. on the average salary fixed for the three grades of Executive Engineers, viz., Rs. 850.

(Signed) J. PENNYCUICK, Colonel, R.E.,
Chief Engineer, P.W.D.

10th October 1894.

Order—dated 7th November 1894, No. 2826 W., Public Works.

The estimate, amounting to Rs. 10,235, as altered by the Chief Engineer, Public Works Department, for constructing quarters with out-houses for the Executive Engineer, Kistna Northern Division, at Bezwada, is sanctioned.

2. An allotment of Rs. 5,000 will be made shortly for the work.

3. Attention is called to the remarks of the Chief Engineer.

4. This sanction has been registered as Provincial No. 70 W. of 1894–95 and classified as Civil Buildings, Original Works.

(True Extract.)

Under Secy. to Govt., P.W.D.

To the Superintending Engineer, II Circle, with six enclosures.
„ Examiner, Public Works Accounts.

Exd. C. A. Munisawmy.
Spare Copies

BUILDINGS AND ROADS.
CIVIL WORKS.

Govt. of {1894} Madras.

PUBLIC WORKS.

Dated November, 7th.

Recd. Encl.

G.O., 7th Nov. 1894, No. 2826 W.

NOVEMBER.

Quarters

Estimate of Rs. 10,235 for constructing — with out-houses for the Executive Engineer, Kistna Northern Division, at Bezwada, sanctioned with remarks.

No: 2826 W. d/ 7th November 1894.

Public Works Department.

Current No. 6979.
Letter No. 1349 KS.
Dated 10th September 1894.
From the Supg. Engineer II Circle.

NOTE BY TECHNICAL SECTION.

Name of Work Constructing residence for the Executive Engineer, Kistna Northern Division.

Amount of Estimate, Rs. 10,800.

PARTICULARS OF ESTIMATE.

Main Building	Rs.	7,600 (7,660)
Subsidiary Buildings { Cook house	"	390
{ Stables	"	290
Wire fencing	"	523 (483)
Contingencies (5% Rs 377)	"	—
Petty Supervision (2½% Rs 187)	"	..
Land compensation for 6.5 acres	"	1,527 (940)
Sinking a well	"	470
Total Rupees ...		10,800 (10,235)

PARTICULARS OF CONSTRUCTION.

Surface soil } Stated to be loamy.
Sub soil

Foundations for the main walls are to be 4 feet deep, the lower 2 ft. of concrete & the upper 2 feet of rough stone in chunam. The retaining walls are to be only 2 feet deep & built of rough stone in chunam.

Basement is to be raised 2 feet high & built of rough stone in chunam.

Walls of the main rooms are to be raised 16 feet to top of joists, rear terraced verandah 11 feet to top of joists & the verandah bath rooms to an average height of 9'9" & are to be built of rough stone in chunam except the bath rooms which are to be of brick in chunam.

Plastering or ~~Pointing~~ both interior & exterior faces of walls are to be plastered with 2 coats of chunam & whitewashed.

Flooring is to be of 3" concrete & plastered with 2 coats of chunam.

Roofing of the main rooms & rear verandah are to be terraced with brick on edge on concrete & the verandah with verandah bath rooms of sloping terrace.

Doors and Windows are to be of teakwood as per description noted in the estimate & varnished with 2 coats of woodoil.

Roof timbers are to be of teakwood & woodoiled 2 coats

Scantlings vide remarks below.

Rates vide remarks below.

The plinth area of the main building is 3757 square feet, and the cost per square foot will be Rs. 2-0-2

The plans and estimates have been countersigned by the Supdg Engineer II Circle & submitted ~~and approved in the~~ for the sanction of Govt. ~~Department~~.

REMARKS.

This estimate has been framed with reference to G.O. No. 1038 W dated 23rd April 1894 & provides for constructing a residence with out houses for the Executive Engineer, Kistna Northern Division, at Bezwada.

The main building is to consist of the following accommodation.

Drawing room. —— 18'0" x 16'0"
Dining room. —— 18'0" x 16'0"
2 bed room each — 18'0" x 14'0" Main rooms
1 bed room —— 17'6" x 14'0"
1 bath room —— 6'6" x 14'0"
1 Store room —— 9'0" x 7'6"
& passage 3'6" wide.
Verandah bath rooms 11'9" x 6'9"
on right side — 11'6" x 6'9" Verandah rooms
— Do. — left side —— 12'9" x 6'9"
with verandahs 8 feet wide —

Provision has been made for a cook house, stables, sinking a well & for for enclosing the compound with wire fencing also Rs 1527 as compensation for 6.5 acres of land.

Yes
CHMS
2/10/94

The section proposed for the joists of the drawing, dining & bed rooms appear to be slightly weak, the distance between points of support being 9 feet, a section of 3" x 5¾" as per table I, page 46 of the Standard Specification may be provided in lieu of a section 3" x 5" as estimated, the verandah rafters may also be increased from 3"x4" to 3"x5", the width of the verandah being 8 feet & the roof of sloping terrace.

The following rates are in excess of the Divisional schedule, the rates entered are stated to be the same as those given in the estimate for Hd. Asst. Collectors residence at Bezwada, sanctioned in G.O. No. 2774 W dated 31st Oct 1893.

To be noted in sanctioning the estimate

Terracing with brick on edge 24.8.. against 21.4..
Sloping terrace ——— 18.... do. 14.8..

Should also be noted

No plans or detailed estimates have been furnished for the out houses.

From cross section AA on the plan it will be observed that the height of the store room & passage is on the same level with that of the main rooms, viz. 16 feet, but the estimate provides only for a height of 11 feet, similar to the rear terraced verandah. As the building will be unsymmetrical if the height of the

walls

walls, viz 16 feet were be continued to the stair room & passage, as designed, the estimate has been altered accordingly so as to agree with the design, by which the amount of the estimate has been increased from Rs 10800 to Rs 10860.

Yes. 16 feet throughout would be an improvement. As designed however, the height of the stair room is 11 feet.

The rent of the proposed building calculated according to rule 1, para 28, Chap XI of the P. W. Code will be as follows.

Estimated cost of construction	Rs 9333
10% for Estab tools & Plant —	933
add cost of site ——	1527
Total Capital cost	Rs 11793
4% on Capital to cover interest	Rs 471.72
3% on Capital for repairs —	353.79
10% on repairs for Estab tools & plant	35.39
Total annual rent	Rs 860.90
-do- per month	Rs 71.74

or say Rs 71-12-.. per month which is in excess of 8%+ on the average salary fixed for the 3 grades of Executive Engineers, viz Rs 850 or Rs 68 per month.

+ vide GO No 3242W dy 16-11-89.

It is therefore submitted that the following reduction may be made, so as to work the rent to the prescribed limit.

To reduce the area of land proposed to be taken up from 6.5 acres to 4.0 acres, by this a saving of Rs 587 will be effected on 2.5 acres at Rs 235 per acre, plus say Rs 38 for corresponding reduction in length of fencing, which will reduce the estimate by Rs 625 & thus gain a saving of Rs 3-12-.. a month in rent, if the above reduction be not approved, the alternative would be to omit the proposed rear sloping verandah, substitute windows with sun shades above for doors to rear bed room, omit inner shutters of front doors 1/3 panel & 2/3 glazed i.e. provide only one shutter 1/3 panel & 2/3 glazed in lieu of double shutters, ~~omit the outer masonry stair case~~ & reduce the item of contingency from 5% to 2½% by which a saving of Rs 686 will be effected.

This reduction is better than that noted below.

The foundations are proposed to be laid partly of concrete & partly of rough stone in chunam, by adopting concrete throughout to ground level the original estimated amount of Rs 7600 for ~~[illegible]~~ main building, will be increased by Rs 145, as per calculations below & the rent will also exceed the prescribed limit.

This excess can not I think be incurred.
CWB
3/10 94

6734 Cft of concrete at Rs 10-12-.. ——	Rs 724
Deduct as estimated	
2755 Cft of concrete at Rs 10-12-.. = Rs 296	
2895 Cft of rough stone at Rs 10-3-.. = 295 -	591
Balance ~~Total~~ Rs	133
add contingencies &c. 9½% say -	12
Total excess Rs	145

[illegible] 27-11-89

6979

2826 W of 7-11-94.

DW

Forwarded.

27-4-94

Letter from the Executive Engineer, Kistna Northern Division to the Superintending Engineer, II Circle dated 1st June 1894 No. 37 S.E.

10

With reference to your endorsement No. 221 K.S. dated 4th May 1894 on G.O. No. 1038 W dated 23d April 1894 to the Executive Engineer, Kistna Eastern Division & transferred by that Officer to me for disposal, I have the honor to forward herewith an estimate amounting to Rs: 10,800 for Constructing Quarters with out houses for the Executive Engineer Northern Division, Kistna at Bezwada for your approval and sanction.

2. The rates allowed in the estimate are same, as those given in the estimate for Head Assistant Collector's Residence at Bezwada sanctioned in G.O. No. 2774 W. dated 30th October 1893.

31 Rs

No

Enclos 5
1 Tracing of building
1 Do of Site plan
1 General Abstract
1 Report
1 D & A Este of building
5

No. 1349 KS
14. 9. 94

Forwarded to the Chief Engineer, P.W. Department for favor of obtaining sanction of Government to the estimate and necessary allotment of funds to put the work in hand at once.

2. Rs: 5000 will be required for this year.

W Baddeley Major R.E.
Supg. Engineer, II Circle
13.9.94.

P. W. NT No. 6979

No. 3242 W d/ 16-11-89
2774 W d/ 31-10-93
1478 W d/ 14-6-94
2071 C d/ 30-5-94
1038 W d/ 23-4-94
778 W d/ 20-3-94

From

The Supg. Engineer
Second Circle

To

The Chief Engineer
P. W. Department

Dated 14th September 1894
Recd: 17.9.94

Enclo 5 6 (2 Plans)

No 1349 K1

Quarters & out houses for Executive Engineer Kistna Northern Division — Forwarding for sanction & provision of funds an estimate amounting to Rs 10 800 for constructing —

1/

0-L-S-387

Note by the Chief Engineer P.W.D:—

26

In accordance with G.O. No. 1038 W dated 23rd April 1894, the Supdg Engineer II Circle submits an estimate for constructing a residence at Berwada for the Executive Engineer Kistna Northern Division. The estimate amounts to Rs 10,800, the rental on which would be in excess of the prescribed limit as fixed by G.O. No. 3242 W dated 16 November 1889. It is therefore necessary to reduce it. This may be done by curtailing the area of the land to be taken up for the building. It is proposed to acquire 6.5 acres at Rs 235 per acre. The area may be limited to 4 acres, by which a saving of Rs 587 will be effected on land, and about Rs 38 on fencing.

2. The section proposed for the joists of the drawing, dining, and bed rooms is slightly weak. The distance between points of support being 9 feet, a section of 3" × 5 3/4" as shewn in table I p. 46 of the Standard Specifications should be provided in lieu of a section of 3" × 5" as estimated. The verandah rafters should also be increased from 3" × 4" to 3" × 5"; the width of the verandah being 8 feet and the roof of sloping terrace.

3. It is noticed that the following rates are in excess of the Divisional schedule rates:—

	Rs A.		Rs A.
Terracing with brick on edge	24-8	as against	21-4-"
Sloping terrace - - - - -	18-"	—"—	14-8-"

and that no plans or detailed estimates are furnished for the out-houses.

39

4. ~~From cross section A.A. on the plan it is observed that the~~ It would be more symmetrical if the height of the store room and passage ~~should be~~ ~~is~~ were on the same level ~~with~~ as that of the main rooms, viz 16 feet; above floor, but the estimate provides ~~only~~ for a height of 11 feet only as in the case of the rear terraced verandah. The building should be ~~altered on the plan~~ so constructed, ~~as~~ ~~designed~~, the estimated increase of cost being Rs 60 ~~an increase of Rs 60 being made in the estimate~~.

5. Allowing for the

reduction of Rs 625 proposed in para 1 above, and the addition of Rs 60 as shewn in para 4, the estimate will stand at Rs 10,235, the rental on which will be as follows:-

Estimated cost of construction	Rs 9295
10% for Establishment and Tools and Plant	929
Add cost of site	940
Total capital cost	" 11,164
4% on capital cost to cover interest	" 446.56
3% do for repairs	334.92
10% on repairs for Estabt & Tools & Plant	33.49
Total annual rent	814.97

Per mensem Rupees 68

which is 8% on the average salary fixed for the 3 grades of Ex. Engineers, viz Rs 850.

JS 10/10

CMM 3/10/94

EW

P.S.

A/

B P W
Civil Works

PUBLIC WORKS DEPARTMENT.

No: 2826 L. d/ 7th November 1894

PROCEEDINGS OF THE MADRAS GOVERNMENT.

READ the following

Endorsement by the S.E. II Circle on letter from the Ex. Engineer Kistna Northern Division No. 37 S.E. dated 1st June 1894 ... (H.E. No 1349 K.S. d/ 14/9/94)

Note by the Chief Engr P.W.D. (d/).

40

The estimate amounting to Rs 10,235, as altered by the Chief Engineer P.W. Deptt, for constructing quarters with outhouses for the Executive Engineer Kistna Northern Division at Bezwada is sanctioned.

W
3 Nov.

2. An allotment of Rs 5000 ~~will be~~ has been made ~~shortly~~ for the work.

3. Attention is called to the remarks of the Chief Engr.

(40—1,000—22-2-94.)

4. This sanction has been registered as Provincial No. 704 of 1894-95 and classified as Civil Buildings, Original Works.

CWMS 9/10 94

10.10

Estimate for constructing quarters for the E.E. Kistna Northern Dn, Bezwada

T/B

DESPATCHED
16 NOV. 94

Note. It will be possible to provide this amount. There are still large savings on the grant for Establishment unappropriated, and there are some works uncommenced the allotments for which can be reduced. The matter will be looked into at Madras.

S. E. II Circle
with Enclos.

Ex P.W. Accts

Pencil alterations in Estimate to be inked in before issue of G.O.

Attended to

CWMB 4/10

No. 6979

Govt. of {1894 Madras.
PUBLIC WORKS.

Dated 10/11/94

Recd. Encl.

G.O., 7/11 1894 No. 2826W

Quarters

Estimate of Rs 10,235 for constructing — with outhouses for the Ex: Engr: Kistna Northern Dn at Bezwada, sanctioned with remarks.

80/X

INDEXED 10/11

T.C.C. 17/11

19—2,000—93