Public Works (189) Department

G.O., No. 2922 W
1923
DATED 3rd November 1899
~~October~~

[Despatch Abstract.]

Bungalow at Bezwada

ordered that the sanction of the Govt of India be obtained to the purchase of certain —— belonging to messrs Wapier Bros

Bungalow at Bezwada.

Requesting ~~with reference to~~ sanction with remarks to the purchase of certain —— belonging to messrs Wapier Brothers

[P. W. D. 1899-99]

GOVERNMENT OF MADRAS.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil Works.

READ—the following papers:—

From J. HANNAN, Esq., Superintending Engineer, II Circle, to the Chief Engineer, Public Works Department, dated Bezwada, 6th March 1899, No. 138 W.

In G.O., No. 2905 W., of 16th November 1898, it was decided that the head-quarters of the Division office, Kistna Western, should be transferred to Bezwada. A bungalow has to be accordingly provided for this office and a suitable one is now available as Messrs. Napier Brothers' bungalows are for sale. I have had an estimate made of the value of their premises at the current rates and it comes to Rs. 17,364. Messrs. Napier Brothers inform me that the cost of the bungalows—there are two, a small and large one—out-houses, &c., as shown by their books, is Rs. 20,000. All the buildings are new, having only been constructed five years ago, and are of the best materials and workmanship.

I send herewith a plan of the compound on which the different buildings are shown in block. I also send ground plans of these buildings. The small bungalow can be used permanently as an office and the accommodation of the new office which will have to be built for this office can be restricted *pro tanto*. This small office can accommodate the draftsman's branch. The new office will have to be built about a $\frac{1}{4}$ mile away. It will therefore, in my opinion, be an advantage rather than otherwise to have one's draftsmen close at hand.

Messrs. Napier Brothers are willing to take Rs. 16,000,* deducting the value of the smaller bungalow to be used an an office, the cost of the Executive Engineer's bungalow will be about Rs. 14,000, and no bungalow with anything like the same accommodation can be built for this sum.

* For both bungalows and out-houses.

I enclose a ground plan of Captain Ellis' bungalow, which cost Rs. 14,020 which will at once show this. I therefore recommend the purchase of Messrs. Napier's premises for Rs. 16,000.

Office-note from the Chief Engineer for Irrigation, dated Madras, 21st March 1899, No. 114.

I have not seen enough of the house to be able to give any opinion as to its value. The house is very conveniently situated and is not far from the existing residences of the Public Works Department officers. I do not know of any reason against buying it, if the full reports which will no doubt be called for show that the buildings are in good order or do not require much for repairs.

The small bungalow will no doubt have to be also bought, but I doubt if the Executive Engineer's intention of using it for an office will be found convenient.

Memo. No. 1981 C.

With reference to his letter No. 138 W., dated 6th March 1899, the Superintending Engineer, II Circle, is informed that Government will purchase both the bungalows referred to for Rs. 16,000; but as the rental of the larger bungalow, which it is proposed to use as a residence for the Executive Engineer, Kistna Western division, will exceed 8 per cent. of the average salary of the three grades of Executive Engineers, the sanction of the Government of India to the purchase must first be obtained under paragraph 17 (3), Chapter X, Volume I, of the Public Works Code. The Superintending Engineer is accordingly requested to be so good as to submit without delay a survey and valuation report for each bungalow with reference to paragraph 18, Chapter X, Volume I, of the Public Works Code.

(Signed) A. W. SMART, Colonel, R.E.,
Ag. Secretary to Government.

8th April 1899.

From Major W. M. ELLIS, R.E., Superintending Engineer, II Circle, to the Chief Engineer, Public Works Department, dated Bezwada, 11th September 1899, No. 433 W.

With reference to your No. 1981 C., dated 8th April 1899, I have herewith the honour to submit a survey and valuation report with plans of the buildings offered for sale by Messrs. Napier Brothers.

2. I would invite attention to the fact that no provision for this purchase is made in the budget for the current year and ask that the necessity for providing funds for the purchase be considered.

3. Along with the survey report I put up a note showing what the capital cost of each of the bungalows with site will work out to after execution of all repairs now necessary.

The sums put down for repairs have not been estimated for in detail, but are only approximate.

According to my calculation the rental of the large bungalow, in which the accommodation is distinctly superior to that in the other two residences built at Bezwada for Executive Engineers, works out to Rs. 82 per month, the rents of the latter buildings being Rs. 80 per month each.

4. I have the honour to request the return of the plans and detailed estimates when done with, for record in this circle.

ORDER—No. 2922 W., dated 3rd November 1899.

The sanction of the Government of India to the purchase of the buildings referred to from Messrs. Napier Brothers will be applied for.

2. The question of providing the requisite funds will be considered on receipt of a reply from that Government.

[Here enter No. 2923 W., dated 3rd November 1899.]

(True Extract.)

(Signed) W. B. DEWINTON,
Secretary to Government.

To the Superintending Engineer, II Circle.

Exd A. F. Eccleston.

BUILDINGS AND ROADS.
CIVIL WORKS.

Government {1899} of Madras.

PUBLIC WORKS.

Recd } 1899. *Enclosures*
Regd. } *Spare copies*

Letter, No. 2923 W., 3rd November 1899.

NOVEMBER.

Bungalows at Bezwada

Requesting sanction, with remarks, to the purchase of certain — belonging to Messrs. Napier Brothers.

PUBLIC WORKS DEPARTMENT.

Buildings and Roads.
Civil Works.

Letter—from

W. B. deWINTON, Esq.,

Secretary to the Government of Madras,

Public Works Department,

To

The JOINT SECRETARY to the GOVERNMENT of INDIA,
Public Works Department.

Sir,

In November 1898, this Government directed the transfer of the head-quarters of the Kistna Western division from Guntúr to Bezwada for administrative reasons. A residence for the Executive Engineer will have to be provided, but instead of building one this Government is desirous of purchasing two bungalows at the station belonging to Messrs. Napier Brothers which are now for sale in one lot at a moderate price, the larger bungalow to be used as a residence for the Executive Engineer, and the smaller as an office for the River Conservancy sub-division.

2. The Superintending Engineer, II Circle, has personally inspected the bungalows, and submitted a survey and valuation report. The cost of erecting the larger of the two bungalows is estimated at Rs. 15,246, and that of the smaller at Rs. 3,300. The site is valued at Rs. 1,140, so that the total cost of erecting these bungalows amounts to Rs. 19,686. The Superintending Engineer estimates the cost of putting the buildings in thorough repair approximately at Rs. 1,100. Deducting this amount from Rs. 19,686, the balance Rs. 18,586 represents the actual value of the buildings. Messrs. Napier Brothers are, however, prepared to accept Rs. 16,000 for the property, and as the difference is in excess of anything which could be fairly considered as "depreciation," and as the buildings are suitable for the purposes for which they are required and are urgently wanted, the Superintending Engineer strongly recommends their purchase. All the buildings are stated to be new, having only been constructed five years ago, and to be of the best materials and workmanship. They are besides very conveniently situated.

3. The total cost of the whole property being Rs. 16,000, the capital cost of the larger bungalow is taken at Rs. 14,000. The rental on this amount calculated under Code rules as shown in the margin works out to Rs. 85·16 per mensem. But as the capital cost of the building should be restricted to a sum which will yield a rental not exceeding Rs. 59 per mensem which is 8 per cent. on the average pay, Rs. 737·5, of an Executive Engineer, I am, with reference to rule 3, paragraph 17, Chapter X, Volume I, of the Public Works Code, to request the sanction of the

	Rs.
(*a*) Capital cost	14,000
(*b*) Four per cent. on (*a*) for interest.	560
(*c*) Three per cent. on (*a*) for repairs.	420
(*d*) Ten per cent. on (*c*) for establishment and tools and plant ...	42
Rent per annum	1,022
Rent per mensem	85·16

Government of India to the purchase of the larger bungalow. I am to add that the accommodation provided in it is in excess of that which could be obtained if a bungalow were constructed at the same capital cost, and is distinctly superior to that in the other two residences built at Bezwada for the Executive Engineers, Kistna Northern, and Kistna Eastern divisions, which cost Rs. 14,020 and Rs. 12,090, respectively.

4. The survey, valuation report and plans of the bungalows are forwarded, and I am to request that they may be returned when no longer required.

I have the honour to be,
Sir,
Your most obedient servant,

(Signed) W. B. deWINTON,
Secretary to Government.

Fort St. George,
3rd November 1899.

Exd. A. F. Eccleston.

Public Works (189) Department.

CURRENT No. 2643

From The Chief Engineer for Irrgn

Order

No. 114

Dated 21 - 3 - 99

Received } 25-3-99

Registered }

Enclosures 5 (4 plans)

Spare copies

SUBJECT.

Bungalows of Messrs Napier Brothers
— States that he has not seen enough of the — to be able to give any opinion as to their value and that he does not know of any reason against buying it if the buildings are in good order or do not require much for repairs

SMW

BACK PAPERS.

No.	Date.
2905 W	16-11-98 ✓
4104 C	19-9-98 ✓
3611 C	16-8-98 ✓
3123 C	11-7-98 ✓
2000 W	13-8-95 ✓
2306	22-9-94 Judl. ✓
3070 W	28-11-93 ✓

FURTHER PAPERS.

No.	Date.

Superintending Engineer's Office, II Circle,
Bezwada, Dated 6th March 1899.

No. 138 W

From

J. Harman Esquire

Superintending Engineer,

II Circle,

To

The Chief Engineer
Public Works Department

18

⊙ 2 Plans Sent by a Separate Post

Sir,

Enclosures. 4 5

3
2. Plans from Napier Brothers
1. - do - of Ex. Engr. Bungalow

340 ⊙

× To be returned when done with

In G. O. No. 2905 W of 16-11-98 it was decided that the Head Quarters of the Division office Kistna Western should be transferred to Bezwada. A bungalow has to be accordingly provided for this officer and a suitable one is now available as Messrs Napier Brothers bungalows are for sale. I have had an Estimate made of the value of their premises at the current rates and it comes to Rs 17.364. Messrs Napier Brothers inform me that the cost of the bungalows — there are two, a small and large one - outhouses &c. as shewn by their books is Rs 20,000. All the buildings are new having only been constructed five years ago and are of the best materials and workmanship.

I send herewith a plan of the compound on which the different buildings are shewn in block. I also send ground plans of these buildings - the

FU
20 MAR 1899
No. 1

small bungalow can be used permanently as an office and the accomodation of the new office which will have to be built for this office can be restricted pro-tanto - This small office can accomodate the Draftsmans branch. The new office will have to be built about a ¼ mile away. It will therefore in my opinion be an advantage rather than otherwise to have one's Draftsmen close at hand.

Messrs Napier Brothers are willing to take Rs 16,000* deducting the value of the smaller bungalow to be used as an office, the cost of the Executive Engineer's bungalow will be about Rs 14,000. and no bungalow will any thing like the same accomodation can be built for this sum.

I enclose a ground plan of Captain Ellis bungalow which cost Rs 14020 which will at once shew this. I therefore recommend the purchase of Messrs Napier's premises for Rs 16,000.

* For both bungalows and land.

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

H Hamm
Superintending Engineer II
circle.

Public Works (189) Department.

CURRENT No. ~~2664~~ 2643

SUPERINTENDING ENGINEER
CIRCLE
20 MAR. 1899
6 6

No: 1627 C. 816 March 99.

From The Superintending Engineer
II Circle

Order

To
R. I

No. 1380

For favour of opinion.

Dated 6th March 1899

Received } 8. 3. 99
Registered }

Enclosures 4 ~~of which two~~ plans
Spare copies ~~Sent separately~~

SUBJECT.

Bungalows of Messrs Lajpat Brothers — Recommends purchase of the — for accomodating Ex. Engrs office Kistna Western Division whose head quarters have been, of late transferred to Bezwada

Ows. 1
2643/99

AEK 31 16-X-99.

Rec'd Inv 114 dy 21-3-99 bo.

I have not been enough in the house to be able to form any opinion as to its value. The house is very conveniently situated and is not far from the existing residences other than Govt offices - I do not know of any reason against buying it. If the usual reports which will no doubt be called for show that the building is in good order & do not require much for repairs.

The smelly hen also will no doubt have to be also bought but I doubt if the Govt intention of buying it for an office will be forthcoming for convenient Govt purposes.

Cwl 1
16/3/99

BACK PAPERS.

No.	Date.

FURTHER PAPERS.

No.	Date.

P. W. Department.

3

Read the following:—

Letter from the Supdg. Engr., II Circle, No. 138 W dy 6.3.99
Office Note from the Chief Engr. for Irrigation
No. 114 dy 21.3.99

Circulated to H.E. the Governor. ✓

FOR ORDERS.

In G.O. No. 2905-W dy 16.11.98, flag D, the transfer of the Headquarters of the Kistna Western Division permanently to Bezwada was sanctioned. It was understood that the transfer would involve an expenditure of Rs 10 000 in con=structing a residence of the Asst. Engineer's type, or a little better, for the Executive Engineer, & of Rs 7000 in providing accommo=dation for his office.

2. The Supdg. Engr., II Circle, now reports that two bungalows at Bezwada belonging to Napier Brothers are for sale, & he recom=mends their purchase for Rs 16,000. The Supdg. Engr. values the two bungalows at Rs 17,364, but

DW/W

[P. W. 43 500—14-11-98.]

but they are stated to have cost Rs 20,000. All the buildings are new, having only been con=structed 5 years ago & are of the best materials & workman=ship.

3. The Supty. Engr. states that the smaller of the two bungalows can be used as an office for the draftsmen's branch of the Executive Engineer's office, the accommoda=tion ~~that~~ in the new Executive Engineer's office that will have to be built being restricted pro tanto. The Chief Engineer for Irrigation, however, doubts whether this bungalow can be so used conveniently. Napier Brothers are willing to take Rs 16,000 for both bungalows. If the value of the small bungalow to be used as an office is deducted, the cost of the large bungalow which will be used as a residence for the Executive Engineer will amount to Rs 14,000. No bungalow with anything like the same accommodation can be built for the sum. The residence of the Executive

Executive Engineer, Kistna Northern Division, cost Rs 14,020. Plans of these buildings are submitted.

4. A bungalow for the Execu=tive Engineer, Kistna western Division, will, someday have to be built, & this seems to be a good opportunity to purchase one at a fairly cheap rate in stead of building one.

5. If Govt. approves of the proposal to purchase these buildings, the sanction of the Govt. of India will have to be applied for under para 17(3), chap XI, Vol I of the P.W. Code, as the rental of the Exc. Engr's bungalow calculated under the rules will exceed 8 p.c. of the average salary of the three grades of Executive Engineers. It is recommended that both buildings be purchased.

Appd. A.R.H. 1.4.99

AGK 29.3.99.

Govt 29/3/99

P.W.D.

No: 1981 C 98-4-99

Memorandum

—

With reference to his letter No. 138 W. dated 6th March 1899, the Suptg. Engr., II Circle is informed that Govt: will purchase both the bungalows referred to for Rs.16,000, but as the rental of the larger bungalow, which it is proposed to use as a residence for the Exc: Engr., Kurnool Western Division, will exceed 8 p.c. of the average salary of the three grades of Exc: Engrs. the sanction of the Govt: of India to the purchase must first be obtained under para 17 (3), Chap. X, Vol. I of the P.W. Code. The Suptg. Engr. is accordingly requested to be so good as to submit without delay a survey and valuation

30

20/11/99

13/4/99

E.29/3/99 R.5/4/99

valuation report for each
bungalow with reference
to para 18, chap. X, Vol. I
of the P. W. Code.

No. 1627 C & 16.3.99
+papers

A.S.K
6.4.99.

Cert
6/14/99
W.

D.S.

—

To
The Supdg. Engr., II Circle.

& 15/4/99

Public Works (1899) Department.

CURRENT No. 7578

From The Superintending Engineer
II Circle

Order

No. 433 C

Dated 11th September 1899

Received } 14.9.99
Registered }

Enclosures 11

Spare copies

SUBJECT.

Survey and valuation Reports with
Plans of the buildings offered for
Sale by Messrs: Narjee Brothers

Submits —.

SAW

1/12/10

BACK PAPERS.

No.	Date.
1981 C	8-4-99
3242 W	16-11-89
2905 W	16-11-98
1428 W	14-6-95
2826 W	7-11-94
2237 C	2-5-99
1627 C	16-3-99
2905 W	16-11-98
4104 C	19-5-98
3611 C	16-8-98
3123 C	11-7-98
2000 W	13-8-95
2306	22-9-94 Public
3070 W	28-11-93

FURTHER PAPERS.

No.	Date.

ESTIMATE FORM.—Detail Measurements.

Detail of Work.	Number.	Measurements in Feet. Length.	Breadth.	Depth.	Area or Contents.	Total Quantity of each description of Work.
1	2	3	4	5	6	7
Cook House						
Concrete in foundations Broken Stone in Chunam:						
~~Rem~~ walls round	1	117	3	1	357	✓
Cross walls	2	8½	3	1	51	✓
Under ovens	1	8½	2½	1	~~24~~	✓
Total Concrete found[n] C.ft[s]						~~429~~ 429
Rough Stone in Chunam:						
Foundations						
Walls round	1	119	2	2	476	✓
Cross walls	2	9½	2	2	76	✓
Under ovens	1	9½	2½	2	48	✓
Basement						
Walls round	1	117	½	9"	134	✓
Cross walls	1	10	½	9"	11	✓
Under ovens	1	10	2½	9"	12	✓ ✓
Total Rough Stone Chunam C.ft[s]						764
Rough Stone in Mud						
Walls round	1	112	1½	8	1428	✓
Cross wall	2	10	1½	10	300	✓
Oven	1	10	2½	3	75	✓
Do Sides	2	1½	2½	4	30	✓
			Total		1833	✓
Deduct for						
Doors	4	3	1½	6	108	✓
Windows	4	3	1½	3	54	✓
		Total Ded[ns]			162	✓ ✓
Total Rough Stone in Mud C.ft[s]						1671

E. 120.
50,000—14-5.95.

ESTIMATE FORM.—Detail Measurements.

Detail of Work.	Number.	Measurements in Feet. Length.	Breadth.	Depth.	Area or Contents.	Total Quantity of each description of Work.
1	2	3	4	5	6	7
Segmental Archwork ; Brick in chunam						
Over oven	1	12'0"	2½	1'2"	37	✓
Total Archwork C.ft					37	✓ 37
Plastering ; 2 coats						
Inside Room no small	3	40	8		960	✓
Do large	1	44	8		352	✓
All round outside	1	125	7		875	✓
Soffit Sides & bottom of over	1	18	2½		45	✓
Gable of walls	10	10		½	200	✓
			Total		2432	✓
Doors	4	3		6	72	✓
Windows	4	3		3	36	✓
			Total		108	✓
Total Plastering ; 2 coats less ded.ns Sq ft						2324 ✓ 2324
Flooring ; 4" concrete & plastered over						
Servants Godown	3	10	10		300	✓
Total Flooring Sq ft						300 ✓ 300
Paving ; 8" square tiles over 4" concrete & pointing						
Kitchen	1	10	9½		95	✓
Total Paving Sq ft						95 ✓ 95
Doors & Windows ; Coumbay wood.						
Doors	4	3		6	72	✓
Windows	4	3		3	36	✓
Total Doors & Windows Sq ft						108 ✓ 108

ESTIMATE FORM.—Detail Measurements.

Detail of Work.	Number.	Measurements in Feet. Length.	Breadth.	Depth.	Area or Contents.	Total Quantity of each description of Work.
1	2	3	4	5	6	7
Roofing ; bamboo rafters & couples bamboo mats, pantiles etc. Complete						
Main roof	2	52½	9½		99.8	✓
Total Roofing Sq ft					99 ft	✓ 998
Earthwork ; Excavating						
Walls all round	1	117	3	3	1071	✓
Do Oven	2	8½	3	3	153	✓
Total Earthwork C ft						✓ 1724
Teakwood Work.						
Wall plates	2	52½	4"	4"	11-8--	✓
Lintel plates	8	4	1'3"	1½"	5--	✓
Total Teakwood C ft						✓ 17
Whitewashing ; 2 coats						
do per plastering item Sq ft						✓ 2324 ✓
Small sheds for fuel						L.S.
Shed for fuel & stock						L.S.

E. 120.
50,000—14-5-95.

ESTIMATE FORM.—Detail Measurements.

Detail of Work.	Number.	Measurements in Feet. Length.	Breadth.	Depth.	Area or Contents.	Total Quantity of each description of Work.
1	2	3	4	5	6	7

E. 120.
50,000—22-7-98.

ESTIMATE FORM.—Detail Measurements.

Detail of Work.	Number.	Measurements in Feet. Length.	Breadth.	Depth.	Area or Contents.	Total Quantity of each description of work.
1	2	3	4	5	6	7
Stable						
Concrete in Foundations						
Rear Walls	1	38	3-0	1-0	114	✓
Cross Walls	4	12	3-0	1-0	144	✓
Walls around rooms	1	48-6	3-0	1-0	145:6	✓
	Total cft				403½	✓ 404
Foundations Rough Stone in Cement						
Rear Wall	1	38	2-0	2-0	152	✓
Cross Walls	4	12	2-0	2-0	192	✓
Walls around rooms	1	47.6	2-0	2-0	190	✓ ✓
	Total				534	✓ 534
Basement Rough stone in ~~Cement~~ Cement						
Rear Walls	1	38	1-9	1	66-6	✓
Cross Walls	4	12	1-9	1	84	✓
Walls around rooms	1	47-3	1-9	1	82 11/16	✓ ✓
	Total				233	✓ 233
~~Superstructure~~ Rough stone in						~~Found~~ 767
Rear Walls	1	38	1-6	7-6"	427-6"	✓
Cross Walls	3	12	1-6	5"	270	✓
Side Wall left	1	12	1-6	7-6	135	✓
Side walls of rooms	2	17	1-6	7-6	382-6	✓
Rear wall of -do-	1	10	1-6	6-6	97-6	✓
Front Walls of -do-	2	1-6	1-6	7-6	34	✓
Gables over Side Wall left	1	6-9	1-6	4-6	46	✓
- do - over Side Wall Right of rooms	1	8-6	1-6	4-6	57 ~~57~~	✓
- do - over Side wall left of rooms	1	12-6	1-6	2	37-6	✓ ✓
	Total				1485	1485

E. 120.
50,000—22-7-98.

ESTIMATE FORM.—Detail Measurements.

Detail of Work	Number.	Measurements in Feet. Length.	Breadth.	Depth.	Area or Contents.	Total Quantity of each description of work
1	2	3	4	5	6	7
Plastering						
All around outside	1	57-6		7-0	360-6	✓
Insides of side walls	2	12-0		8-0	192	✓
Do - cross walls	3	12-0		11-6	414	✓
Pillars over cross walls	3	6-0		2-6	46	✓
Outside of Room	1	39-6		7-0	276-6	✓
Inside Do	1	44-0		8-0	352 / 132	✓
Gables	4	7-0		4-6	126	✓
Do	2	14-0		5-6	154	✓
		Total			1920 / 1700	✓
Woodwork						
Bressummers in front	1	54	5"	6"	11-3	✓
Wall plates	1	52	3"	3"	3-3	✓
		Total			14-6	✓ 15
Roofing with Canvas & Tar & Sand complete						
Roof	1	54	11		594	✓
		Total			594	✓ 594
For the Works						
Excavating foundation rear Walls	1	38	3	3	342	✓
Do - cross Walls	4	12	3	3	432 / 437	✓
Do Walls around rooms	1	48-6	3	3	422 / 1211	✓ 1211 / 1196
		Total			1196	
Raising floor with Quarry Rubbish		12	12	1-0	384	✓
		14	10	1-0	140	✓
		Total			524	✓ 524
White washing 2 coats - as for plastering above					1920 / 1700	1920 / 1700

E. 120.
50,000—22-7-98.

ESTIMATE FORM.—Detail Measurements.

Detail of Work	Number.	Measurements in Feet. Length.	Breadth.	Depth.	Area or Contents.	Total Quantity of each description of work
1	2	3	4	5	6	7
Godown for Tools						
Concrete & Limeash						
Front & rear Walls	2	23-6	3-0	1-0	141	✓
cross walls	4	3-6	3-0	1-0	42	✓
		Total			183	✓ 183
Foundation Rock stone in Lime / *Lime* / *Cement* / *Chunam*						
Front & rear walls	2	22-6	2-0	2-0	180	✓
cross walls	4	4-6	2-0	2-0	72	✓
		Total			252	✓ 252
Superstructure Rangestone in Lime / *Cement* / *Chunam*						
Front Walls	1	22	1-6	7-0	231	✓
Do Rear Walls	1	22	1-6	8-6	280-6	✓
cross walls	4	5-0	1-6	7-9	232-6	✓
					744	✓
Deduct for doors	3	3	1½	6-0	81	✓
		Total less deductions			663	✓ 663
Plastering						
Front walls outside	1	22	"	6-6	143	✓
Do inside	1	16	"	7-6	120	✓
Rear outside	1	22	"	8-0	176 / 198	✓
Do inside	1	22	"	8-0	176	✓
Cross walls	8	5-	"	7-6	300 / 304	✓
		Total			975 / 1941	✓
Deductions						
for doors	6	3	"	6	108	✓
Net					833 / 807	✓ 807 / 833
White washing					807 / 833	✓ 807 / 833
2 Coats						

E. 120.
50,000—22-7-98.

ESTIMATE FORM.—Detail Measurements.

Detail of Work.	Number.	Measurements in Feet. Length.	Breadth.	Depth.	Area or Contents.	Total Quantity of each description of work
1	2	3	4	5	6	7
Roofing with bamboo rafters bamboo mats, pantiles &c complete						
Roof	1	22		7-6	165	
Total					165	165
Flooring (6" Concrete in terraces and plastered)						
Room	1	16	5	1	80	80
Earthwork						
Excavating foundation to front & rear walls	2	23-6	3	3	423	
cross walls	4	3-6	3	3	126	
Total					549	549
Teak Woodwork						
Wallplate	2	22	3"	3"	2-9	
Total					2-9	3
Doors. Revolving shutter						
wire	3	3×6			54	54

ESTIMATE FORM.—Abstract.

Quantity.	Description of Work.	Rate.	Per	Amount	Total.
1	2	3	4	5	6
		Rs.		Rs.	Rs.
	Cookroom & Servants godown—				
4.29	Concrete in foundation; Broken stone	9-8-0	100 Cft	41	
7.64	Rough stone in Chunam	12-0-0	"	92	
16.71	Rough stone in mud	6-0-0	"	100	
0.37	Arch work segt over oven Brick in Chunam	26-0-0	"	10	
23.24	Plastering 2 Coats	2-8-0	100 Sft	58	
3.00	Flooring (4" Concrete plastered over)	6-12-0	"	20	
0.95	Paving; 8" square tiles over 4" Concrete	10-0-0	"	10	
9.98	Roofing; bamboo rafters and mats, pantiles &c Complete	10-0-0	"	100	
108	Doors and windows—rough—	-14-0	Sft	95	
17 Cft.	Teak wood work	3-0-0	Cft.	51	
23.24	White-washing	0-4-0	100 Sft.	6	
1.224	Earth work; Excavating for found	3-7-6	100 Cft	4	
					587
	Stables				
4.04	Concrete in foundation Broken stone	9-8-0	100 Cft.	38	
7.67	Rough stone in Chunam	12-0-0	"	92	
14.87	Rough stone in mud	6-0-0	"	89	
19.20	Plastering 2 Coats	2-8-0	100 Sft	48	
15 Cft.	Teak wood work	3-0-0	Cft	45	
5-94	Roofing with bamboo rafters bamboo mats &c Complete	10-0-0	100 Sft.	59	
1.211	Earth work; excavating	2-5-0	1000 Cft.	3	
19.20	White washing 2 Coats	0-4-0	100 Sft	5	
5.24	Raising floor with gravel pukhtu	1-0-0	100 Cft	10	
					389
	Carry forward Grand Total of Estimate ..				976

Station _____

Date _____ 189 .

Executive Engineer

(E. No. 123.)

5,000—11 10-98.

CIRCLE—

DIVISION—

DISTRICT—

TALUK (OR ESTATE IN CASE OF ESTATE WORKS).

ESTIMATE FORM.—Abstract.

Financial Head—

Budget Head—

Departmental Head—

Main Head—

Sub-Head—

Project of which the work forms part—

Section—

Name of Work—

Amount of Estimate, Rs

To be carried out by—

REFERENCES.

ESTIMATE FORM.—Abstract.

Quantity.	Description of Work.	Rate.	Per	Amount	Total.
1	2	3	4	5	6
		Rs.		Rs.	Rs.
	Brought forward				976
	Godown for tools				
1.83	Concrete in foundation - Broken stone	9-8-0	100 Cft.	17	
2.52	Rough stone in Chunam	12-0-0	"	30	
6.63	Rough stone in mud	6-0-0	"	40	
8.07	Plastering; 2 coats	2-8-0	100 Sft.	20	
8.07	White washing; 2 coats	0-4-0	"	2	
1.65	Roofing, bamboo rafters bamboo mats, tiles &c complete	10-0-0	"	17	
180	Flooring 4" Concrete, plastered over	6-12-0	"	5	
1549	Earthwork - excavating	2-5-0	1000 Cft.	1	
3 Cft.	Teak wood work	3-0-0	Cft.	9	
54	Doors ordinary	0-14-0	Sft.	47	
					188
	Small shed for pigeons			30	
	Shed for putting out plants			40	
	Terrace including parapets ornamental wood work, fencing &c			200	
					270
	Sundries, Contingencies, Petty supervision &c				66
					1500

Grand Total of Estimate .. 1500

10/9/98 Major R.E.
Supt'g Engineer DC

STATION

Date 189

/ Signed / J. S. Wilson
Executive Engineer

(E. No. 123.)

5,000—11 1⅞-98.

Circle—

Division—

District—

Taluk (or Estate in case or Estate Works).

ESTIMATE FORM.—Abstract.

Financial Head—

Budget Head—

Departmental Head—

Main Head—

Sub-Head—

Project of which the work forms part—

Section—

Name of Work— Outhouses

Amount of Estimate, Rs 1,500/-

To be carried out by—

REFERENCES.

P.W.E. 5
75 78/88.

ESTIMATE FORM.—Detail Measurements.

Detail of Work.	Number.	Measurements in Feet. Length.	Breadth.	Depth.	Area or Contents.	Total Quantity of each description of Work.
1	2	3	4	5	6	7
Well for Compound						
Earthwork.						
Excavating pit for well.	1	area. 551.54		25.00	13788.50	
				Total cft.		13788.50
Filling the above.						
Sinking						
Sinking Well.	1				1	1.
Well curb.						
Well curb of Jamnia wood for a Well 6 ft. in diameter.	1				1	1.
Baling.						
Baling.						
Platform for sinking well						
Platform for sinking well.						Nos. 1
Well bricks						
Well bricks (126 Course in height of 34 ft. including parapet of 34 bricks in each Course.						Nos. 4624
Brick building.						
Brick building 34 ft. deep.	1	34	-	-	34	34
Plastering.						
Plastering pavement round the well	1	area 561.28		-	494.49 561.28	
Parapet wall inside	1	20.41	3.00	-	61.23	
Do — outside	1	26.70	3.00	-	80.10 74.10	
Top	1	22.76	1.00	-	22.76	
				Total	657.58	

E. 120.
50,000—14-5-95.

ESTIMATE FORM.—Detail Measurements.

Detail of Work.	Number.	Measurements in Feet. Length.	Breadth.	Depth.	Area or Contents.	Total Quantity of each description of Work.
1	2	3	4	5	6	7
Rough Stone in Chunam.						
20 pavement.	1	26·5	diamtr	1·00	551·26 cft	
Deduct for well.						
For well including brick work.	1	8½ diamtr		1·00	56·77	
Total Less deductions					494·49 cft or 5 units	
Petty Supervision						
Contingencies.						

ESTIMATE FORM.—Abstract.

Quantity.	Description of Work.	Rate.	Per	Amount	Total.
1	2	3	4	5	6
		Rs.		Rs.	Rs.
	Well in the Compound				
13·788 units	Earthwork Excavating &c.	5·12·7	1000	80 ~~93~~	
13·788 do	Filling and ramming	3·7·7	do	48	
	Sinking.			30	
	Well curb.			25	
	Baling.			30	
	Platform for Linking well.			25	
	Coir brush wood grass &c.			14	
4624	Well bricks	20·0·0	1000	92	
34 ft	Brick building.	1·4·0	foot	43	
658 ft	Plastering.	3·0·0	100 ft	20	
5·00 units	Rough Stone in Chunam.	12·0·0	units	60.	
					467 ~~480~~
	Grand Total of Estimate ..				467 ~~480~~

STATION _____

Date _____ 189 .

A Srinivasa Iyengar
30/5
Asst Engineer
27/8/99. St Luke's Dr.

Executive Engineer.

(E. No. 123.)

50,000—12-2-97.

Circle—

Division—

District—

Taluk (or Estate in case or Estate Works.)

ESTIMATE FORM.—Abstract.

Financial Head—

Budget Head—

Departmental Head—

Main Head—

Sub-Head—

Project of which the work forms part—

Section— Well.

Name of Work—

Amount of Estimate, Rs.— 467 / 486-0-0

To be carried out by—

REFERENCES.

ESTIMATE FORM.—Detail Measurements.

Detail of Work.	Number.	Measurements in Feet. Length.	Breadth.	Depth.	Area or Contents.	Total Quantity of each description of Work.
1	2	3	4	5	6	7
Wrought Iron pipe 1¾" inside dia². inc² couplings						
Over well	1	21				
From well & water tank	1	44				
To & from iron tank	1	24				
To lift water tank	1	240				
From Do	2	11				
Branch from Do	1	11				
Total length of pipe R³ᵍˢ						372 ✓
Bends for Do		pipes			No	13
Cocks for Do		Do			No	4
Wrought Iron pipes ¾" diam² including couplings						
Over well	1	20				
Leading from iron tank	1	80				
Total piping ¾" R⁹ˢ						100 ✓
Bends for Do						4
Rearing of Garden including pathways etc						2.5
Land Compensation for 5.10 acreage						
Wire fencing 5 strand wire in 5 rows (4' high)						
Total length R³ ft²						916 ✓
Corner posts for fencing						1 ✓
Straining posts for Do						2 ✓

E. 120.
50,000—14-5-95.

ESTIMATE FORM.—Detail Measurements.

Detail of Work.	Number.	Measurements in Feet. Length.	Breadth.	Depth.	Area or Contents.	Total Quantity of each description of Work.
1	2	3	4	5	6	7
Iron gate (10'x4'6") with fittings						1
Iron barred wooden gate						L.S.
Hedge & ditch on 2 sides.					R.ft	1100
Water tank Large		10'	x 10'	x 6½		1
Do Smaller		(3'x3'x3')				4
Well (as per Separate estimate)						L.S.
Wind mill Mechanism. inc. sail, etc. pump timber supports, ladder etc						L.S.
Wooden supports for Do						L.S.
W. I. tank & pipings for Do						L.S.

ESTIMATE FORM.—Abstract.

Quantity.	Description of Work.	Rate.	Per	Amount	Total.
1	2	3	4	5	6
		Rs.		Rs.	Rs.
372	Wrought iron piping 1¾" diam. including Couplings	0-5-9	Rft	134	
13	Bends for do	0-15-0	"	12	
4	Cocks for do	3-8-0	each	14	
100	Wrought iron piping ¾" diam. including Coupling	0-2-0	Rft	13	
4	Bends for do	0-8-0	"	2	
	Fencing of Garden (48 mangoe trees & others) including pathways, drains &c	L.S.		200	
5.70	Compensation for land	200	acre	1,140	
916	(5 Strand wire fencing (5 rows, 4 high) including posts, (on two sides)	0-3-3	Rft	186	
1	Corner post for do	27	each	27	
2	Straining posts for do	28	"	56	
1	Iron Gate (10'x4'6") including posts	L.S	-	130	
1	Iron barred wooden gate	L.S	-	30	
1,100	Hedge & ditch on two Sides	0-1-0	Rft	69	
1	Water tank (10'x10'x6½')			70	
4	Do Smaller (3'x3'x3')	15	each	60	
	Well as per separate estimate			467	
	Windmill, mechanism including 10' sail, pumps, timber supports to ladder &c	L.S.		250	
	W. I. tank & pipings for do	L.S	-	70	
				2,930	
	Sundries Contingencies & Safety Supervision			70	3,000
				Grand Total of Estimate ..	3,000

Wd. Wilcox Major R.E.
Supt. Engineer 2nd Circle

Station
Date 189 . 8/8/97

Signed J.S. Wilson
Executive Engineer

(E. No. 123.)

50,000—11 10-98.

CIRCLE—

DIVISION—

DISTRICT—

TALUK (OR ESTATE IN CASE OF ESTATE WORKS).

ESTIMATE FORM.—Abstract.

Financial Head—

Budget Head—

Departmental Head—

Main Head—

Sub-Head—

Project of which the work forms part—

Section—

Name of Work— Lunch and garden

Amount of Estimate, Rs. 3,000/—

To be carried out by—

REFERENCES.

P. W. 2. 6

75 78 [illegible]

ESTIMATE FORM.—Detail Measurements.

Detail of Work.	Number.	Measurements in Feet. Length.	Breadth.	Depth.	Area or Contents.	Total Quantity of each description of Work.
1	2	3	4	5	6	7
Earthwork						
Excavating foundation and Filling in basement						
Main wall round	1	136	3½	4	1904	✓
Cross walls & Do	2	12	3½	4	336	✓
Front Veraudah round	1	67	3½	4	938	✓
Round Bath rooms	2	33	3½	4	~~484~~	✓
Rear Veraudah	1	14	3½	4	196	✓ 4298
Total Excavating C. ft.						~~4298~~ ✓
The Centre rooms	3	16	14	1½	1008	✓
Front Veraudah	1	51	7½	1½	573	✓
Rear Veraudah	1	16	8	½	64	✓
Bath rooms	2	16	8	½	128	✓
Total Filling C. ft.						1773 ✓
Concrete in foundations; Broken stone in Chunam.						
Main wall round	1	136	3½	2	952	✓
Cross walls & Do	2	12	3½	2	168	✓
Front Veraudah	1	~~67~~	3½	2	469	✓
Round Bath rooms	2	33	3½	2	~~462~~	✓
Rear Veraudah	1	14	3½	2	98	✓
Total Concrete in foundations C ft.						2149 ~~1691~~
Rough stone in Chunam.						
Foundations						
Main wall round	1	136	2½	2	680	✓
Cross wall Do	2	13'	2½	2	130	✓
Total C. ft.					~~1082~~ 810	✓

E. 120.
50,000—14-6-95.

ESTIMATE FORM.—Detail Measurements.

Detail of Work.	Number.	Measurements in Feet. Length.	Breadth.	Depth.	Area or Contents.	Total Quantity of each description of Work.
1	2	3	4	5	6	7
	Total	68	B. F.		1082	
Veraidah in front	1	~~66½~~	2½	2	~~330~~	
Round Bath rooms	2	34	2½	2	340	
Rear Veraddah	1	15	2½	2	75	
Under front steps	1	13	3½	1	46	
Do Rear Steps	1	17	1½	1	26	
Rear of bath room	2	4	1½	1	12	
Basement						
Main wall round	1	136	1½	2	408	
Cross walls in Do	2	14	1½	2	84	
Front Veraidah	1	~~69~~	1½	2	207	
Round Bath rooms	2	35	1½	1	105	
Rear Veraidah	1	14	1½	1	21	
steps in front	1	12	3	1	36	
Do in rear	1	16	1	6"	8	
Do rear of bath rooms	2	3	1	6"	3	
Do in rear Veraidah	1	4	1	6"	X	
Do in Bath rooms	2	3	1	6"	3	
Superstructure						
Main wall round	1	136	1½	13¾	2805	
Cross walls in Do	2	14	1½	18¾	~~558~~ 578	
Gables & Do	2	14	1½	4½	95	
Round Bath rooms	2	35	1½	8	840	
Gables & Side walls of Do	4	8½	1½	6/12	153	
Bind wall for bath	2	23	9"	9"	26	
Square pillar in rear	1	1'6"	1'6"	6'2"	15	
Wall for fixing Cashchest	1	3	1½	5¼	24	
		Total	C.O		~~7062~~ 7311/4	

ESTIMATE FORM.—Detail Measurements.

Detail of Work.	Number.	Measurements in Feet. Length.	Breadth.	Depth.	Area or Contents.	Total Quantity of each description of Work.
1	2	3	4	5	6	7
	Total		B. F.		~~7311/4~~ 7062	
Deduct for:						
Doorways in Rubble	5	4	1½	6½	195	
Door to B. room	4	3	1½	6½	117	
Do from B room	2	3	1½	5½	49½	
Windows	4	3	1½	4½	81	
Archway. Rectangular	2	4	1½	5	60	
Do Semicircular	2	6.28	1½		19	
Archwork as per details below					112	
	Total	Deduction			~~633½~~ 633	
Total Rough Stone in chunam c.ft.					~~6256~~ 6429	
Archwork; Brick in chunam						
Flat over door	5	5	1½	1'2"	~~56~~ 44	
Do Do	4	4	1½	1'2"	~~36~~ 28	
Do Do	2	4	1½	1'2"	~~16~~ 14	
Do windows	4	3¾	1½	1'2"	26	
Total Archwork Brick c.ft						112 136
Cut Stone Work					5-5-7	
Under posts in Veraidah	7	1'3"	1'3"	0'6"	~~5-5-7~~ ~~4-6-7~~	
Edges of basement	1	15	1½	¼	~~11-3-0~~ ~~11-8-6~~	+ 17½
Total Cut Stone C.ft					16-8-7	or 16
Plastering						
Inside rooms around	3	80	"	14-3	3420	
all round out side main building	1	142		13-3	1881½	
Rear wall of bath room	2	19		8-0	304	
Side wall of Do	8	9-3		11-0	814	
Sqr Pillars in rear Veranthas	1	6-0		7-0	42	
					6461½	

E. 120.
50,000—14-5-95.

ESTIMATE FORM.—Detail Measurements.

Detail of Work.	Number.	Measurements in Feet. Length.	Breadth.	Depth.	Area or Contents.	Total Quantity of each description of Work.
1	2	3	4	5	6	7
Gable walls	8	7-0		5-0	280	64 61½
Top of steps in front	1	12-0		3-0	36	
Do in rear	1	16-0		1-0	16	
Rear of bath room	2	3-0		1-0	6	
Do in rear Verandah	1	4-0		1-0	4	
Do in bath room	2	3-0		1-0	6	
Cowalls	1	23-0		1-6	34½	
Basement all round	1	142		2-0	284	
Sides & soffits of large door	5	17	1-6	0	127½	
Do — Small	4	16	1-6	0	96	
Do — Do. Small	2	14	1-6		42	
Archway in main building	2	16·28	1-6		49	
Do - Windows	4	15	1-6		90	
					732½	7533
Deductions.						
For large doors in Main building	10	4	"	6-6	260	
Do Do to Bath room	8	3	-	6-6	156	
Do Do Wagont frame do	4	3	-	5-6	66	
Do archway rectangular	4	4	-	5-0	80	
Do Do Semicircular	4	2 2×3·14 / 2	-	-	25	
Do Do Windows	8	3	-	4-6	108	
For bath room wall touching in Rear Verandah.	4	1-6	-	14-3	85½	
					780½	
Net Plastering					6752	

ESTIMATE FORM.—Detail Measurements.

Detail of Work.	Number.	Measurements in Feet. Length.	Breadth.	Depth.	Area or Contents.	Total Quantity of each description of Work.
1	2	3	4	5	6	7
Concrete Flooring						
Main rooms	3	16	14	-	672	
Front Verandah	1	51	7-6	-	383	
Rear Verandah	1	16	8-0		128	
Bath rooms	2	16	8-0		256	
	Total Flooring				1439	14·39
Teakwood work						
Breasummers over pillars in						
Front Verandah —	1	56	6"	7"	16-4-0	
Do Do in rear.	1	18	6"	6"	4-6-0	
Common rafters to Front Verandah	33	13-9	2½"	5"	39-4-8	
Do Do in rear	33	14-9	2½	5"	42-3-0	
Do Do Main rooms	46	11-6	2½	5"	27-6-7	45-11-0
Jack rafters to Do.	24	5-7	2½	5	11-10-7	
Collar pieces	22	8-0	2½	5	15-3-4	
Hip rafters	4	15-6	3"	6"	7-9-0	
Wall plates around main building	1	137	3"	3"	8-6-9	
Wall plates to bath rooms.	2	19	3"	3"	2-4-6	
Posts in Front Verandah.	7	6-6	6"	6"	11-4-6	206
Total.					205-8-6	
Roofing with teakwood purns flat tiles, pantiles and Chunam borders etc complete —						
Main roof	2	48½		11½	1115½	
Front Verandah roof	1	57		12½	712½	
Rear Verandah roof	1	57		13½	769½	
Total					2597½	

E. 120.
50,000—12-2-97.

ESTIMATE FORM.—Detail Measurements.

Detail of Work.	Number.	Measurements in Feet. Length.	Breadth.	Depth.	Area or Contents.	Total Quantity of each description of Work.
1	2	3	4	5	6	7
Teakwood doors & windows						
Doors large 2/3 Venetian & 1/3 paunelled						
in Main rooms.	5	4		6-6	130	
— do — Small — do — to bath rooms	4	3		6-6	78	
— do — Small — in bath rooms	2	3		5-6	33	
	Total				241	241
Door shutter batten to arch way	1	4-10		6'	29	29
Windows Venetians	4	3		4-6	54	54
Painting with wood oil ing ; 2 coats						
Breasemmers over pillars in front						
Verandah —	1	56		20"	93	
do — do — in rear.	1	18		18"	27	
Common rafters to front Verandah	33	13-9		12½	473	
do — do — in rear	33	14-9		12½	507 551	
Jack rafters to do	24	5-9		12½	144	
do pieces	22	8-0		12½	183	
Hip rafters	4	15-6		15"	77½	
Posts in front Verandah —	7	6-6		24"	91	
Doors large 2/3 Venetian & 1/3 paunelled						
in Main rooms —	5×2¾	4		6'-6"	357½	
— do — Small — do — bath rooms	4×2¾	3		6-6	214½	
— do — do — do —	2×2¾	3		5-6	91	
Door Shutters batten to arch way	1×2	4-10		6'	58	
Windows Venetian	4×3	3		4-6	162	2479
	Total.				2522½	2523
					2,478½	
White washing						
White washing 2 coats as per squares						
of plastering —					67-50	

E. 120.
50,000—14-5-95.

ESTIMATE FORM.—Detail Measurements.

Detail of Work.	Number.	Measurements in Feet. Length.	Breadth.	Depth.	Area or Contents.	Total Quantity of each description of Work.
1	2	3	4	5	6	7
Iron Cash Chest 2-2½"×1-5½"	1					1
Punkah 19 feet in length	1					1
Bamboo sticks without blue cloth —	6		9×6		324	324

E. 120.
50,000—12-2-97.

ESTIMATE FORM.—Detail Measurements.

Detail of Work.	Number.	Measurements in Feet. Length.	Breadth.	Depth.	Area or Contents.	Total Quantity of each description of Work.
1	2	3	4	5	6	7
Teakwood doors & windows						
Doors large 2/3 Venetion & 1/3 paunelled in main rooms.	5	4		6-6	130	
— do — Small — do — to bath rooms	4	3		6-6	78	
— do — Small — in bath rooms	2	3		5-6	33	
	Total				241	241
Door shutter batten to arch way	1	4-6		6'	29	29
Windows Venetions	4	3		4-6	54	54
Painting with wood oiling; 2 coats						
Breastsummers over pillars in Front Verandah —	1	56		20"	93	
do — do — in rear.	1	18		18"	27	
Common rafters to Front Verandah	33	13-9		12½	473	
do — do — in rear	33	14-9		12½	507 551	
Jack rafters to do	24	5-9		12½	144	
do pieces	22	8-0		12½	183	
Hip rafters	4	15-6		15"	77½	
Posts in Front Verandah —	7	6-6		24"	91	
Doors large 2/3 Venetion & 1/3 paunelled in main rooms —	5×2¾	4		6'-6"	357½	
— do — Small — do — bath rooms	4×2¾	3		6-6	214½	
— do — do — do —	2×2¾	3		5-6	91	
Door Shutters batten to archway	1×2	4-10		6'	58	
Windows Venetion	4×3	3		4-6	162	2479
	Total.				2522½ 2,478½	2523
White washing						
White washing 2 coats as per squares of plastering —					67-50	

E. 120.
50,000—14-5-95.

ESTIMATE FORM.—Detail Measurements.

Detail of Work.	Number.	Measurements in Feet. Length.	Breadth.	Depth.	Area or Contents.	Total Quantity of each description of Work.
1	2	3	4	5	6	7
Iron Cash Chest 2-2½"×1-5½"	1					
Punkah 14 feet in length	1					
Bamboo sticks without blue cloth —	6		9×6		324	324

Executive Engineer.

ESTIMATE FORM.—Detail Measurements.

Detail of Work.	Number.	Measurements in Ft.			Area or Contents.	Total Quantity of each description of Work.
		Length.	Breadth.	Depth.		
1	2	3	4	5	6	7

ESTIMATE FORM.—Abstract.

Quantity	Description of Work.	Rate.	Per	Amount	Total.
1	2	3	4	5	6
		Rs.		Rs.	Rs.
4.298	Earthwork. Excavating for f^{n}	2-5--	1000cft	10	
1.773	— do — Filling in basement	1-11-9	do	3	
21.49	Concrete in f^{n}. Broken stone chunam	9-8--	100cft	204	
64.29	Rough Stone in Chunam	12----	do	771	
1.12	Archwork; Brick in chunam	25----	do	28	
17	Cutstone work	--8--	1cft	9	
67.52	Plastering 2 coats	2-8--	100 Sqft	169	
14.39	Flooring 6" Concrete and plastered	8-4--	do	119	
206	Teakwood work	3----	1cft	618	
25.98	Roofing with teak rafters flat tiles. Chunam borders complete	15-8--	100 Sqft	403	
241	Teak wood doors and windows ⅓ panelled ⅔ venetian hinges &c complete	1-1-6	Sqft	264	
29	Batten door & archway	1-1-0	do	36	
54	Venetian windows	1-5-6	do	73	
24.79	Wood oiling 2 coats.	1-14--	100 Sqft	46	
67.52	Whitewashing	--4--	do	17	
1	Iron Cash Chest 2' 2½" × 1' 5½"		each	125	
1	Punkah 10' long	15----	do	15	
324	Bamboo chicks without cloth with hooks &c	--1--	Sqft	20	
	Sundries, Contingencies and petty Supervision			70	
			Grand Total of Estimate ..		3,000

Major RE.
Supdg Engineer RC

STATION

Date 189 . } 9/2/99

I Signed / J. S. Wilson

Executive Engineer.

(E. No. 132.)

60,00 C.—12-2-97.

CIRCLE—

DIVISION—

DISTRICT—

TALUK (OR ESTATE IN CASE OF ESTATE WORKS.)

ESTIMATE FORM.—Abstract.

Financial Head—

Budget Head—

Departmental Head—

Main Head—

Sub-Head—

Project of which the work forms part—

Section— Small Bungalow

Name of Work— ~~Office Building~~

Amount of Estimate, Rs.— 3,000

To be carried out by—

REFERENCES.

P. 10.84

7. 7. 98/99

Napiers' Bungalow

ESTIMATE FORM.—Detail Measurements.

Detail of Work.	Number.	Measurements in Feet. Length.	Breadth.	Depth.	Area or Contents.	Total Quantity of each description of Work.
1	2	3	4	5	6	7
		Main Block.				
Earthwork						
Excavating ground & for.						
Main wall all round	1	252'3"	4'6"	4'3"	4824	
Verandah all round	1	327'6"	3'0"	3'6"	3439	
Cross wall bet^n Drawing & Dining rooms	1	17'0"	4'6"	4'3"	325	
Do Do main walls	4	15'0"	4'6"	4'3"	1148	
Do bath rooms	4	6'3"	3'0"	3'6"	263	
Bath room walls by verandah	2	2'3"	3'0"	3'6"	47	
Store & Maley room (3 sides)	2	35'6"	3'0"	3'6"	746	
Portico posts.	4	3'0"	3'0"	3'6"	126	
Rear Verandah posts	3	3'0"	3'0"	3'6"	95	
Do Do Store & wash	2	3'0"	1'6"	3'6"	32	
Total Earthwork 6^2 Cubic feet.						110.45
Filling in Basement						
Drawing room Semi Hex^l porte	1	14'0"	6'0"	~~3'6"~~ 2'9"	231	
Rectangular portion	1	~~16'0"~~	~~20'0~~	~~2'9"~~	~~880~~	
Centre hall.	1	17'6"	19'6"	2'9"	831	
Bed room large	2	17'6"	17'6"	2'9"	938	
Do small	2	11'6"	17'6"	2'9"	1684	
Bath room large	2	11'6"	8'0"	2'9"	1107	
Do Small	2	10'0"	8'0"	2'9"	506	
Maley & Store room	2	9'6"	11'6"	0'9"	440	
Verandah round D^r room	1	50'6"	8'3"	2'9"	164	
Do front of bed rooms	2	37'6"	8'3"	2'9"	1146	
Do at sides	2	23'6"	4'3"	2'9"	1702	
Do in rear	1	47'0"	8'3"	2'9"	549	
Total Earthwork Filling in Cubic ft.					1066	10364

E. 120.
50,000—14-8-95.

ESTIMATE FORM.—Detail Measurements.

Detail of Work.	Number.	Measurements in Feet. Length.	Breadth.	Depth.	Area or Contents.	Total Quantity of each description of Work.
1	2	3	4	5	6	7
Concrete in foundations - Broken Stone in Chunam.						
Main building round	1	252'3"	4'6"	2'3"	2554	✓
Veraudah round	1	327'6"	3'0"	2'0"	1965	✓
Cross wall bet Dr & Dining rooms	1	17'0"	4'6"	2'3"	172	✓
Do Do main walls	4	15'0"	4'6"	2'3"	608	✓
Do Do bath room	4	6'3"	3'0"	2'0"	150	✓
Bath room wall by Veraudah	2	2'3"	3'0"	2'0"	27	✓
Round store & Matey room	2	35'6"	3'0"	2'0"	426	✓
Portico posts	4	3'0"	3'0"	2'0"	72	✓
Rear Veraudah posts	3	3'0"	3'0"	2'0"	54	✓
Do Do close & wall	2	3'0"	1'6"	2'0"	18	✓
Total Concrete in foundations (Broken Stone) C.Ft.					6046.	
Rough Stone in Chunam.						
Foundations						
Main building all round	1	252'3"	3'0"	2'0"	1514	✓
Veraudah round	1	327'6"	~~2'0"~~ 3'0"	~~1'6"~~ 2'0"	983	✓
Cross wall. Dr & Dining rooms	1	18'6"	~~4'6"~~ 3'0"	2'0"	111	✓
Do Do main walls	4	16'6"	3'0"	2'0"	396	✓
Do bath rooms	4	7'6"	2'0"	1'6"	90	✓
Bath room wall by Veraudah	2	3'6"	2'0"	1'6"	21	✓
Store & Matey rooms (3 sides)	2	36'6"	2'0"	1'6"	219	✓
Portico posts.	4	1'6"	1'6"	1'6"	14	✓
Rear Veraudah posts	3	1'6"	1'6"	1'6"	10	✓
Do Do close & wall	2	1'6"	1'6"	1'6"	7	✓
Below front steps	1	17'0"	5'6"	1'0"	105	✓
Do sides	2	8'0"	5'6"	1'0"	88	✓
Do rear	2	14'6"	3'6"	1'0"	101	✓
Total foundations Cubic ft.					3659 ~~3669~~	✓

ESTIMATE FORM.—Detail Measurements.

Detail of Work.	Number.	Measurements in Feet. Length.	Breadth.	Depth.	Area or Contents.	Total Quantity of each description of Work.
1	2	3	4	5	6	7
B.C.						3,659
Basement						
Main wall all round	1	252½	2	3¼	1640	✓
Veraudah round	1	327½	1½	3	1474	✓
Cross wall bet Dr & Dr rooms	1	19½	2	3¼	127	✓
do bet main walls	4	17½	2	3¼	455	✓
Do bath rooms	4	8½	1½	3	153	✓
Bath room wall by Veraudah	2	4½	1½	3	41	✓
Store & Matey room (3 sides)	2	37	1½	1	111	✓
Steps in Store & Matey room	2	3½	2	1	14	✓
Masonry under front steps	1	14	5½	2	70	✓
Do Do side steps	2	7	4	1¼	70	✓
Do in rear	2	12	3	1	72	✓
Total Rough Stone in Basement						4227
Superstructure						
Main wall round	1	252¼	1½	18¾	7095	✓
Cross wall bet Dr & Dr rooms	1	20	1½	18¾	563	✓
Do main walls	4	18	1½	18¾	2025	✓
Gables & the c.w Dr & Dr rooms	1	20	1½	7½	105	✓
Do Do main walls	4	18	1½	7½	378	✓
Cuen retaining wall	2	48½	1½	9¾"	1346	✓
Cross wall in bath room	42	8½	1½	9¼	472	✓
Gables over Do	4	8½	~~1½~~	3½	77	✓
Bath rooms wall by Veraudah	2	4½	1½	12'3"	138	✓
Gable for Do	2	4½	1½	3½	14	✓
Store & Matey room 3 sides	2	37	1½	~~3½~~	833	✓
Gables & side walls for Do	4	12	1½	~~1½~~	144	✓
Pillars in Veraudah	~~28~~ 31	1½	1½	8¼	575	✓
Bind wall for bath	4	11	¾	¾	25	✓
Total Superstructure					13790	✓ 7,886 ~~7,896~~

E. 120.
50,000—14-5-95

ESTIMATE FORM.—Detail Measurements.

Detail of Work.	Number.	Measurements in Feet. Length.	Breadth.	Depth.	Area or Contents.	Total Quantity of each description of Work.
1	2	3	4	5	6	7
				B. F	13790	7886
Doors in Dt rooms	5	5	1½	7½	281.	✓
Centre hall	4	5	1½	7½	225	✓
Bed rooms	18	4	1½	7	756	✓
Bath rooms	4	3½	1½	6½	137	✓
Pantry and store rooms	3	3½	1½	6½	102	✓
Window in Store room	1	3	1½	3	13	✓
in bath rooms	4	3	1½	3	54	✓
Ventilators	21	2	1½	1½	94	✓
Semicicular openings over doorways in Drawing rooms	5	5 × 3.14 / 2		1½	74 589.	✓
Total Archwork as per details below				c. ft	453.	✓
Total Deductions					2704 2185	
Total Rd Superstructure					11601	
Total Rough Stone in Chunam				c. ft	10086 10486	

Archwork; Brick in Chunam.

Semicircular over doors in Drawing rooms	5	9.75	1½	1-2	85.31	✓
Segmental over doors.						
Centre hall	4	5.75	1½	1-2	40.25	✓
Bed rooms	18	4.75	1½	1-2	149.62	✓
Bath rooms	4	4.40	1½	1-2	30.80	✓
Pantry & store room	3	4.40	1½	1-2	23.10	✓
Over Windows Store room	1	3.60	1½	1-2	6.35	✓
Bath room	4	3.60	1½	1-2	25.40	✓
Over Ventilators	21	2.50	1½	1-2	91.88	✓
Total Archwork. Brick in chunam					452.91	✓

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ESTIMATE FORM.—Detail Measurements.

Detail of Work.	Number.	Measurements in Feet. Length.	Breadth.	Depth.	Area or Contents.	Total Quantity of each description of Work.
1	2	3	4	5	6	7
Cutstone Work.						
granite Steps in front.	1	18	5	6"	45	✓ 45
Do in sides	2	7	5	6"	35	✓
Stone brackets all round	17	1½	6"	9"	26	✓
Ac floor in front of steps	1	18	1	6"	9	✓ 70
Total Cutstone				C. ft	115	✓
Plastering 2 coats						
Drawing room inside	1	57	—	19-3	1097.	✓
Do — outside	1	59½		18-3	1085	✓
Centre Hall inside	1	80		19-3		
Bed rooms large do	2	72		19-3	6622	✓
Do — small do	2	60		19-3		
Bath rooms large rear & side walls	2	29		11-0		
Do — small do —	2	27½		11-0		
Ball room walls outside by rear Verandah.	2	8½		11-0	1430.	✓
Bath room walls outside of Store and Pantry rooms.	2	11½		9-0	207.	✓
Do — outside all round the remaining 3 sides	2	41½		9½	1624½	✓
Do — inside	2	44		9½		
Outside all round, exclusive of drawing room	1	197		18'	3546	✓
Outside bathroom by side Verandah	2	6		10¾	129	✓
Do the remaining portion	2	39½		9	639	✓
circular pillars all round	28	1½ × 3.14		8¼	1088	✓
Square — do — in rear verandah	3	6		8¼	148½ 150½	✓
					17616	

E. 120.
50,000—14-6-95.

ESTIMATE FORM.—Detail Measurements.

Detail of Work.	Number.	Measurements in Feet. Length.	Breadth.	Depth.	Area or Contents.	Total Quantity of each description of Work.
1	2	3	4	5	6	7
Basement all round	1	294		3	882	
Sides of doors in drawing room	10	1½		7½	112½	
Sofits of archwork over doors	5	5 × 3·14 / 2		1½	59	
Side and sofits of doors in centre hall	4	21	1½		126	
—do— in bed rooms	18	19	1½		513	
—do— in bath rooms	4	17	1½		102	
—do— Pantry & store rooms	3	17	1½		76½	
Sides, sofits sill over windows in store room	1	12	1½		18	
—do—do— in bath room	4	12	1½		72	
—do—do— over ventilators	21	7	1½		220½	
Top of steps in rear verandah	2	5	3		30	
—do— in bath rooms	4	8½	3		102	
—do— in store & Pantry rooms	2	3½	2		14	
Works in bath rooms	4	11	1½		66	
		2 out			20092 / 20,069½	
Deductions						
For doors in drawing room	5×2	5		7½	375	
Semi circular over doors	5×2	(2½)² × 3·14 / 2			98	
For doors in centre hall	4×2	5		7½	300	
—do— in bed rooms	18×2	4		7	1008	
—do— bath rooms	4×2	4		7	224	
—do— Pantry & Store rooms	3×2	3½		6½	136½ / 76	
Windows in store room	1×2	3		3	18	
do Bath room	4×2	3		3	72	
do Ventilators	2×2	2		1½	126	
Junction of bath room cross wall with main building	6		1½	12	108	
Total Deductions					3405½ / 2465½	
Net Plastering Less Deductions					17544 / 17697 or	17550 / 177 Squares.

E. 120.
50,000—12-2-97.

ESTIMATE FORM.—Detail Measurements.

Detail of Work.	Number.	Measurements in Feet. Length.	Breadth.	Depth.	Area or Contents.	Total Quantity of each description of Work.
1	2	3	4	5	6	7
Flooring (6" concrete & plastered over)						
Filling in basement						
Drawing room semi circular portion	1	14'0"	6'0"		84	
Rectangular portion	1	15'6"	19'6"		302	
Centre hall	1	17'6"	19'6"		341	
Bed room large	2	17'6"	17'6"		613	
do small	2	11'6"	17'6"		403	
Bath room large	2	11'6"	8'0"		184	
do small	2	10'0"	8'0"		160	
Pantry & store room	2	9'6"	11'6"		212 / 128	
Verandah round ½ room	1	50'6"	8'3"		417	
do front of bed rooms	2	37'6"	8'3"		619	
do at sides	2	23'6"	4'3"		200	
do in rear	1	47'0"	8'3"		387	
Total Flooring (6" concrete)						3929 / 3838
Teak wood work (Wrought & put up)						
Bressummers over pillars round drawing room	1	58½	6"	4"	9-9-0	
do over pillars in front of Bed rooms	2	34½	4½"	6"	12-11-3	
do over pillars of side verandah	2	25	4½"	6"	9-4-6	
do do in rear verandah	1	26	4½"	6"	4-10-6	
do do at sill of side steps	2	6½	2½"	6"	1-4-3	
do in porticos	2	18½	4"	6"	6-2-0	
do to low verandah in rear	1	25½	3¾"	4"	2-7-10	
Posts to do do	5	8½	4"	4"	4-8-8	
do to Porticos	4	12	6"	6"	12-0-0	
Tie beams of truss in portico roof	2	18	3"	3"	2-3-0	
do do	1	18	5"	6"	3-9-0	
					69-11-1	

ESTIMATE FORM.—Detail Measurements.

Detail of Work.	Number.	Measurements in Feet. Length.	Breadth.	Depth.	Area or Contents.	Total Quantity of each description of Work.
1	2	3	4	5	6	7
Principle rafters	6	11	3"	6"	69-11-1	
Common rafters to portico	22	11	2"	4"	8-3-0	
— do — all around front verandahs	42	12½	3"	4"	13-5-4	
Jack rafters — do —	74	6¼	3"	4"	43-9-0	
Rafters to side verandahs	24	9	3"	4"	38-6-6	
Common rafters to rear verandah	27	12½	3"	4"	18-0-0	
— do — to low verandah	17	12	2"	4"	28-1-6	
Valley rafters in front verandah	4	16	3"	5"	11-4-0	
Hip rafters — do — do —	6	16	3"	5"	6-8-0	
Wall purlins all round front verandah	1	166	4¾"	6"	10-0-0	
— do — in rear verandah + bath rooms	1	90	4¾"	6"	32-10-3	
Common rafters in Malt + Store rooms	12	16	2½"	4"	17-9-9	
Purlins to Malt + Store rooms	2	11½	3"	5"	13-4-0	
Common rafters to bath rooms	22	12½	3"	4"	2-4-9	
Jack rafters to — do —	8	6¼	3"	4"	22-11-0	
Hip rafters — do —	2	10½	3"	5"	4-2-0	
Purlins to drawing room (Lower)	1	58	4"	5"	2-2-3	
— do — do — (Upper)	1	53	4"	5"	8-0-8	
Lower purlins to main building	2	161	4"	5"	7-4-4	
do — do — (above)	1	167	4"	5"	44-8-8	
Ridge piece to roof of portico and front verandah	1	29	2½"	6"	23-2-4	
do from drawing room to the portico of centre hall	1	23	2½"	9"	3-0-3	
do to main building	1	71	2½"	9"	3-7-1	
Common rafters to drawing room	19	15½	2½"	4"	11-1-1	
Jack rafters to — do —	16	7¾	2½"	4"	20-5-5	
Hip rafters to — do —	4	16½	2½"	4"	8-7-4	
					4-7-0	

B. 120.
50,000—12-2-97.

ESTIMATE FORM.—Detail Measurements.

Detail of Work.	Number.	Measurements in Feet. Length.	Breadth.	Depth.	Area or Contents.	Total Quantity of each description of Work
1	2	3	4	5	6	7
Common rafters to centre hall	13	14½	2½"	4"	13-1-1	
Jack rafters to — do —	24	7¼	2½"	4"	12-1-0	
Valley rafters to — do —	2	20	2½"	4"	2-9-4	
Common rafters to bed rooms	58	14½	2½"	4"	58-4-10	
Jack rafters to — do —	32	7¼	2½"	4"	16-1-4	
Hip rafters to — do —	4	18½	2½"	4"	5-1-8	
Wall plates all around drawing room	1	58¼	3"	3"	3-7-8	
do around main building	1	192½	3"	3"	12-0-4	
do to bath rooms	2	27	3"	3"	3-4-6	
do to Malt + Store room	2	13	3"	3"	1-7-6	
Total					606-6-9	607
Doors + Windows						
Doors ⅔ venetian + ⅓ panelled in drawing room	5	5 × 7'-6"			187½	
do do in centre hall	4	5 × 7'-6"			150	
do do in bed rooms	18	4 × 7			504	
do do in bath rooms	4	3-6" × 6-6"			91	
do do in Malt + Store room	3	3-6" × 6-6"			68¼	
Total					1000¾	1001 Sqft
Full venetian windows in Store rooms	1	3' × 3'			9	
— do — in bath rooms	4	3' × 3'			36	
					45	45 Sqft
Ventilators with glazed shutters	21	2' × 1'-6"			252	
Semicircular glazed shutters to drawing room	5	5 × 3.14 / 8			49	
					301	301 Sqft

ESTIMATE FORM.—Detail Measurements.

Detail of Work	Number.	Measurements in Feet. Length.	Breadth.	Depth.	Area or Contents.	Total Quantity of each description of Work.
1	2	3	4	5	6	7
Wood screen shutters batten with catch at top	14	3'-6" × 4'			196	
					196	196 Sqft
Wood oiling 2 coats						
Dressummer around drawing room	1	58½	17"		83	
〃 over pillars in front of bed rooms	2	34½	17"		98	
〃 over pillars of side verandah	2	25	17"		71	
〃 〃 in rear verandah	1	26	17"		37	
〃 〃 at site of side steps	2	6½	17"		18	
〃 〃 in portico	2	18½	16"		49	
〃 to low verandah in rear	1	25½	12"		25½	
Tie beams of truss in portico roof	2	8	12"		16	
—〃— —〃— —	1	18	22"		33	
Principle rafters	6	11	15"		82½	
Common rafters to portico	22	11	10"		202	
〃 — all around front verandah	42	12½	11"		481	
Jack rafters to —〃— 〃—	74	6¼	11"		424	
Rafters to side verandahs	24	9	11"		198	
Common rafters in rear verandah	27	12½	11"		309	
—〃— to low verandah	17	12	10"		170	
Valley rafters in front verandah	4	16	13"		69	
Hip rafters —〃— —〃—	6	16	13"		104	
Wall purlins all around front verandah	1	166	11"		152	
〃 in rear verandah & bath rooms	1	90	11"		82½	
Common rafters in pantry & store rooms	12	16	11"		176	
Purlins to pantry & store rooms	2	11½	12"		25	
Common rafters to bath rooms	22	12½	11"		252	
Jack rafters to —〃—	8	6¼	11"		46	

F. 120.
50,000—14-5-95.

ESTIMATE FORM.—Detail Measurements.

Detail of Work.	Number.	Measurements in Feet. Length.	Breadth.	Depth.	Area or Contents.	Total Quantity of each description of Work.
1	2	3	4	5	6	7
Brought forward					7203½ 3203½ 6223½	
Hip rafters to bath rooms	2	10½	13"		23	
Purlins to drawing room (Lower)	1	58	14"		68	
〃 〃 (Upper)	1	53	14"		62	
Lower purlins to main building	2	161	14"		376	
〃 — 〃 — above	1	167	14"		195	
Ridge piece to roof of portico and front verandah	1	29	14"		34	
〃 from drawing room to the portion of centre hall	1	23	20"		38	
〃 to main building	1	71	20"		118	
Common rafters to drawing room	19	15½	10"		245	
Jack rafters to —〃—	16	7¾	10"		103	
Hip rafters to —〃—	4	16½	11"		60½	
Common rafters to centre hall	13	14½	10"		157	
Jack rafters —〃— —〃—	24	7½	10"		150	
Valley rafters —〃— —〃—	2	20	11"		37	
Common rafters to bed rooms	58	14½	10"		701	
Jack rafters to —〃—	32	7¼	10"		193	
Hip rafters —〃—	4	18½	11"		68	
Doors ⅔ venetian + ⅓ panelled in drawing room	5	5×2¾		7'-6"	516	
—〃— —〃— in centre hall	5	4×2¾		7'-6"	412½	
—〃— —〃— in bed rooms	4	18×2¾		7'-	1386	
—〃— —〃— in bath rooms	3'-6"	4×2¾		6'-6"	250	
—〃— —〃— in pantry and store rooms	3'-6"	3×2¾		6'-6"	188 118	
					8534½	
					8584½	

ESTIMATE FORM.—Detail Measurements.

Detail of Work.	Number.	Measurements in Feet. Length.	Breadth.	Depth.	Area or Contents.	Total Quantity of each description of Work.
1	2	3	4	5	6	7
Brought forward					8584½	
					8634½	
Venetian window in store room	1X3	3'		3'	27	
~~—o—~~ in bath room	4X3	3'		3'	108	
Ventilators	2/X2	2'		1'-6"	~~126~~	
Semi circular glazed shutters to drawing room	5X2	$\frac{(2.5)^2(3.14)}{2}$			98	
Wood screen shutters batten	14X2	3'-6"		4'	392	
					9223½	9225
					9275½ or	9276
Bungalow terrace roofing					9223	
Over porties in front verandah	2	23	11		506	
Around drawing room	1	59½	12½		744	
In front of bed rooms	2	33	12½		825	
Over side verandahs	2	28	8		448	
Over rear verandah including bath rooms	1	95	12½		1187½	
Over Pantry & Store rooms	2	13½	14		378	
Over Low verandah	1	24	10		240	
					4328½	4329
Roofing with teak rafters flat and pantiles, Chunam borders Complete						
Over drawing room including the extra length of Hexagonal portion	2	25	15½		775	
Over Main building	2	80	14½		2320	
					3095	3095

E. 120.
50,000—14-5-95.

ESTIMATE FORM.—Detail Measurements.

Detail of Work.	Number.	Measurements in Feet. Length.	Breadth.	Depth.	Area or Contents.	Total Quantity of each description of Work.
1	2	3	4	5	6	7
Iron cash chest 2'X1-6"	1					1
Punkahs large 15' in length	3					3
—o— small 10' in length	2					2
—o— small 6' in length	2					2
Bamboo chicks with blue cloth	21	8'X8'			1344 Sqft	2
Ornamental wood work in the Porties	1					1
White washing						
2 coats of white washing as per Squares of plastering					17550	
					17691½	~~17691~~
~~deduct~~ yellow paint as per details below					1339	
Total Net white washing					16357½ / 16,211	16211 / 16358
Yellow paint for walls						
Semi Hexagonal portion	1	25		19'-0"	475	
Rectangular sides	1	52		19'-0"	988	
Sides & Sofits of doors	7	23	1'2"		188	
Total Sqft					1651	
~~deduct~~ for door ways						
Rectangular	7	5		7½	263	
Semicircular	5	$\frac{5^2 \times 3.14}{8}$			49	
Total deductions					312	
Total yellow painting besides Sofft					1339	

ESTIMATE FORM.—Detail Measurements.

Detail of Work.	Number.	Measurements in Feet.			Area or Contents.	Total Quantity of each description of Work.
		Length.	Breadth.	Depth.		
1	2	3	4	5	6	7

ESTIMATE FORM.—Detail Measurements.

E. 120.
50,000—14-5-95.

Detail of Work.	Number.	Measurements in Feet.			Area or Contents.	Total Quantity of each description of Work.
		Length.	Breadth.	Depth.		
1	2	3	4	5	6	7
Iron work						
Angle irons hip rafters to drawing room —	4	14-6"	2¼"	½"	~~tbg~~ 386-86	
I Iron hip rafters to centre Hall	2	18'	4"	⅜"	382-32	
Brackets for Portico	44	0-8	2"	¼"	50-00	
do do Bed room	4	16-6"	4"	⅜"	680-32	
Total					1500-10	
Add wastage 10 per cent					149-90	1650-00
Trusses Drawing room 20 ft Span.						
Iron tie rods ch ends.	2	7-0	1⅛"	do.		46·48
do do ch centre	1	7-0	1"	do		18·34
Tension rods	2	6-9"	⅞"	do		27·14
Angle iron principle rafters	2	13-0	3"	⅜"		182·78
do do chords	2	3-0	2"	¼"		18·78
Plates at jimction of tie rods	2	0·8"	0-4"	⅜"	24	6·66
do do Ridge piece	1	0·8	6"	⅜"	18	5·01
Screw bolts large including head and nut	6	0·4"	1"	do		5·24
do small do	4	0·4"	¾"	do		1·97
Cap plate at top	1	1·3"	6"	½"	45	12·52
Screw bolts at top do	16	0·4"	¾"	do		7·42
Big plate at ends of Iron rod	12	0·4"	1½"	¼"	18	5·01
Small plates at ends of Iron rods	8	0·3"	1"	¼"	6	1·66
Bearing plates for trusses on walls	2	0·9"	0·9"	1"	162	45·10
Conical portion top of plate	2	0·4½"	3"	1"	27	7·51
Total					~~391·62~~ ~~408·31~~	
Add wastage 10 per cent					~~39·38~~ ~~41·69~~	
					~~431·00~~ ~~450·00~~	431·00

ESTIMATE FORM.—Detail Measurements.

Detail of Work.	Number.	Measurements in Feet. Length.	Breadth.	Depth.	Area or Contents.	Total Quantity of each description of Work.
1	2	3	4	5	6	7
Truss to drain building.						
18-2 Span						
Iron tie rods at ends	10	7-0	1 1/8	do		232-40
do do Centre	5	6-0	1"	do		78-60
Iron Rods	10	6-6	7/8"	do		130-71
Angle irons principle rafters	10	12-0	3"	3/8"		843-60
do do Struts	10	2-9"	2"	1/4"		86-07
Plate at junction of tie rods	10	0-8"	4"	3/8"	120	33-32
do at Ridge pieces	5	0-8"	6"	3/8"	90	25-03
Screw bolts large	30	0-4"	1"	do		26-20
do small	20	0-4"	3/4"	do		9-84
Top plate over principle rafters	1	0-9"	6"	1/4"	13 1/2	3-75
Screw bolts at top	4	0-4"	3/4"	do		1-97
Big plates at ends of iron rods	60	0-4"	1 1/2"	1/4"	90	25-00
Small do do	40	0-3"	1"	1/4"	30	8-30
Beading plate for truss over walls	10	0-9"	9"	1"	810	225-38
do Conical portion on top	5	4 1/2"	3"	1"	67	18-80
Total						1748-97
Add wastage 10 per cent						174-03
Grand Total						1923-00
					4004	4025

ESTIMATE FORM.—Abstract.

Quantity.	Description of Work.	Rate.	Per	Amount	Total.
1	2	3	4	5	6
		Rs.		Rs.	Rs.
11-045	Earth work; Excavating foundn	2-5-0	1000 cft.	26	
10-364	do filling in basement	1-11-9	"	18	
60-46	Concrete in foundn. Lime in Chunam	9-8-0	100 cft.	574	
194-87	Rough stone in Chunam	12-0-0	"	2,338	
4-83	Arch work; Brick in Chunam	26-0-0	"	118	
45	Granite cut stone	2-0-0	Cft.	90	
70	Cut stone work	-8-0	"	35	
175-50	Plastering 2 Coats (1st Width + 3rd Cloth)	1-8-0	100 sft.	439	
39-29	Flooring; 6 inches Concrete, plastered over	8-4-0	"	324	
607	Teak wood work	3-4-0	Cft.	1,973	
1001	Doors windows 1/3 venetian 2/3 panel	1-1-6	Sft.	1,095	
45	Venetian windows	1-5-6	"	60	
112	Ventilators with glazed shutters	1-0-6	"	116	
196	Wood screen shutters	1-4-0	"	245	
92-25	Wood oiling 2 Coats	1-14-0	100 sft.	173	
43-29	Bengal terracing	14-8-0	"	628	
30-95	Roofing with teak rafters, plain tiles, Chunam pendices &c Complete	15-8-0	"	480	
162-11	White washing 2 Coats	-4-0	"	41	
13-39	Yellow paint for walls	2-8-0	"	33	
	Iron Coal Chest 2' x 1-6"	—	—	125	
3	Punkahs 15' long			60	
2	do 10' "			30	
2	do 6' "			20	
4004	Wrought-iron work (set-up)	-3-0	lbs.	751	
1344	Bamboo Chicks with blue cloth	-2-6	Rft.	210	
	Ornamental wood work in Portico			20	
	Carry over			10022	
	~~Grand Total of Estimate~~ ..				

Station _____

Date _____ 189 .

Executive Engineer

(E. No. 123.)

50,000—11,10-98.

Circle—

Division—

District—

Taluk (or Estate in case or Estate Works).

ESTIMATE FORM.—Abstract.

Financial Head—

Budget Head—

Departmental Head—

Main Head—

Sub-Head—

Project of which the work forms part—

Section—

Name of Work—

Amount of Estimate, Rs

To be carried out by—

REFERENCES.

ESTIMATE FORM.—Abstract.

Quantity.	Description of Work.	Rate.	Per	Amount	Total.
1	2	3	4	5	6
		Rs.		Rs.	Rs.
	Brought forward			10,022	
	Contingencies & petty supervision			478	
					10,500

Grand Total of Estimate .. 10,500

Maj. Ellis Major R.E.
Supt. Engineer 1st Circle

Station
Date 189

(Signed) J. S. Wilson
Executive Engineer

(E. No. 123.)

50,000—11 10-98.

CIRCLE—

DIVISION—

DISTRICT—

TALUK (OR ESTATE IN CASE OF ESTATE WORKS).

ESTIMATE FORM.—Abstract.

Financial Head—

Budget Head—

Departmental Head—

Main Head—

Sub-Head—

Project of which the work forms part—

Section— Large Bungalow

Name of Work— ~~Bungalows~~

Amount of Estimate, Rs. 10,500

To be carried out by—

REFERENCES.

P.W.Z. 3
7578/99

P. No. 9

Superintending Engineer's Office, II Circle,

No. 4336 S

BEZWADA, 11th September 1899.

From

Major W. M. Ellis R.E.

SUPERINTENDING ENGINEER,

II CIRCLE,

To

THE Chief Engineer
Public Works Department.

40

SIR,

Enclosures. 11

Large Bungalow.
1. Details & abstract estimate.
2. Tracings.
Small Bungalow.
1 Details & abstract estimate.
1 Tracing
Out houses &c.
1 Details & abstract estimate
1 Tracing.
1 Details & abstract Estimate for land & Garden
1 Site plan (Tracing)
1 Survey valuation Report.
1 Note by S.E.

11

With reference to your No. G.O. 1981 C, dated 4th April, I have herewith the honour to submit a Survey and Valuation Report with plans of the buildings offered for sale by Messrs Napier Brothers.

2. I would invite attention to the fact that no provision for this purchase is made in the Budget for the current year and ask that the necessity for providing funds for the purchase be considered.

3. Along with the Survey Report I put up a note shewing what the Capital cost of each of the Bungalows with site will work out to after execution of all repairs now necessary. The sums put down for repairs have

have not been estimated for in detail but are only approximate.

According to my calculation the rental of the Large Bungalow, in which the accommodation is distinctly superior to that in the other two residences built at Bezwada for Executive Engineers, works out to Rs 82/- per month the rents of the latter buildings being Rs 80/- per month each.

4. I have the honour to request the return of the plans and details Estimates when done with, for record in this circle.

I have the honour to be,
Sir,
Your most obedient Servant.

Major R.E.
Superintending Engineer
II Circle

9.9.99

P. W. D.

Note for His Excellency the Governor

In the note flagged 7 His Excellency approved of the proposal to purchase the two bungalows at Bezwada, belonging to Napier Brothers, the larger of which is to be used as a residence for the Executive Engineer, Kistna Western Division, & the smaller as an office. In Memo No 1981 C dt 8.4.99 the Supdg. Engr., II circle, was asked to submit a survey & valuation report of each bungalow as required by para 18, chap X, Vol. I of the P. W. Code.

2. These have now been received, but as the rental of the larger bungalow, which it

Flag V

HE 3/10 Rs 60.00

it is proposed to use as a residence for the Executive Engineer, will exceed 8 p.c. of the average salary of an Executive Engineer, the sanction of the Govt: of India to its purchase must be obtained with reference to para 17(3) Chap IX, Vol. I of the P.W. Code. A draft letter applying for sanction is accordingly submitted for approval.

P.W.

3.10.11

Secn. A.G.H.

A

P. W. DEPARTMENT.

READ the following:—

Letter from the Suptg. Engr., II Circle, No 138 W dy 6.3.99
Office Note from the Chief Engineer for Irrigation No 114 dy 21.3.99
Memo No 1981 C dy 8.4.99
Letter from the Suptg. Engr., II Circle, No 433 W dy 11.9.99

Circulated to ~~H.E. the Governor~~

5P

ORDER.

No 2922 W dy 3.11.99

A.G.H 8.10.99

The sanction of the Govt: of India to the purchase of the buildings referred to from Messrs Napier Bros. will be applied for.

2. The question of providing the requisite funds will be considered on receipt of a reply from that Govt.

P.W.

(H.E. No 2923 W dy 3rd Nov 1899).

To

The Jt. Secy. to the Govt: of India
P.W. Dept.

Sir,

In November 1898 this Govt: directe

To

The Suptg. Engr., II Circle

11/11/99

B/T

A.G.H.

[P. W. 4. 1,000—18-7-99.]

directed the transfer of the head-quarters of the Kistna western Division from Guntur to Bezwada for administrative reasons. A residence for the Executive Engineer will have to be provided, but instead of building one this Govt: is desirous of purchasing two bungalows at the station belonging to Messrs Napier Brothers which are now for sale in one lot at a moderate fairly cheap price rate, the larger bungalow to be used as a residence for the Executive Engineer, and the smaller as an office for the River Conservancy Sub division.

2. The Suptg. Engineer, II Circle, has personally inspected the bungalows, & submitted a survey and valuation report. The cost of erecting the larger of the two bungalows is estimated at Rs 15,246, & that of the smaller at ~~at~~ Rs 3,300. The site is valued at Rs 1140 so that the total cost of erecting there bungalows amounts to Rs 19,686. The Suptg. Engineer estimates the cost of repairs of putting to put the buildings in thorough ~~good condition~~ repair approximately at Rs 1100. Deducting this amount from Rs 19,686, the balance Rs 18,586 represents the actual value of the buildings. Messrs Napier Brothers are however prepared to accept Rs 16,000 for the property, & as the difference is in excess of anything which could be fairly considered as "depreciation", and as the buildings are suitable for the purposes for which they are required & are urgently wanted, the Suptg. Engineer strongly recommends their purchase. All the

the buildings are stated to be new, having only been constructed 5 years ago, and to be of the best materials & workmanship. They are besides very conveniently situated.

3. The total cost of the whole property being Rs 16,000 the capital cost of the larger bungalow is taken at Rs 14,000. The rental on this amount calculated under Code rules as shown in the margin works out to Rs 85.16 per mensem. But as the capital cost of the building should be restricted to a sum which will yield a rental not exceeding Rs 59 per mensem which is 5 p.c. on the average pay, Rs 737.5, of an Executive Engineer, I am

(a) Capital cost - Rs 14,000
(b) 4 p.c. on (a) for interest - Rs 560
(c) 3 p.c. on (a) for repairs - " 420
(d) 10 p.c. on (c) for Establishment & Tools & Plant - " 42
Rent-per annum. Rs. 1022
Rent-per mensem. Rs 85.16.

× 1000 (Pay of Ex: Engr. 1st Grade Imperial list) + 475 (pay of Ex: Engineer 2nd Grade Provincial list)
$= \frac{1475}{2} = 737.5$

78

am, with reference to rule 3, para 17, chap X, Vol I of the P.W. Code, to request the sanction of the Govt: of India to the purchase of the larger bungalow. I am to add that the accommodation provided in it is in excess of that which could be obtained if a bungalow were constructed at the same capital cost, and is distinctly superior to that in the other two residences built at Bezwada for the Executive Engineers, Krishna Northern, & Krishna Eastern divisions, which cost Rs 14,020 and Rs 12,090 respectively.

4. The survey, valuation report & plans of the bungalow are forwarded, & I am to request that they may be returned when no longer required.

I have &c.

H H

3.10.91