MRO 1—10,006—28-2-50

(1) Number of pages _____

(2) Date of repair _____

(3) Initials of the Referencer _____

MADRAS RECORD OFFICE

Government of Madras

Public Works DEPARTMENT

G.O. No. / ~~B.P. No.~~	3051	Press / Mis.
Dated	28 10	~~195~~ 1875

Not to be folded or roughly handled

Proceedings of the Madras Government, Public Works Department,
28th October 1875.

No. 466. Read the following letter from Major H M VIBART, R.E, District Engineer, Bangalore, to Major-General G. W. WALKER, R E, Secretary to Government, Public Works Department, dated Bangalore, 2nd October 1875, No. 110 —

I HAVE the honor to forward herewith for sanction the undermentioned estimates and plans —

One estimate, amounting to Rupees 335, with specification, for constructing a latrine to the barracks occupied by the detachment, 30th Regiment, Native Infantry, at Mysore.

One estimate, amounting to Rupees 370, with specification, for certain alterations and additions to the latrine of Sappers Hospital, St. John's Hill Barracks, at Bangalore.

One estimate, amounting to Rupees 160, with specification, for roofing in the space between the Serjeants' Mess cook-house and canteen godown to form a cook-house for two married families, Royal Horse Artillery, Ulsoor Barracks, at Bangalore

2 The plans and estimates have been prepared at the requisition of the Officer Commanding the Division, and have met with the approval of His Excellency the Commander-in-Chief

3. I am unable to point out the source from which the cost of the work can be met, as the allotment under the head Minor New Works for the current official year has already been exhausted.

No. 467. ORDER THEREON, 28th October 1875, No 3,051.

MILITARY WORKS, No 10

THE estimates are sanctioned and the works may be carried out in anticipation of specific allotments later in the year.

(True Extract)

Major-General, R E.,
Secretary to Government.

To the District Engineer, Bangalore
" Controller of Public Works Accounts
" Military Department

Exd W. J Lewis
Spare Copies

Estimate No: of 1875-76

Ishtagram Division

Estimate of the probable Expense of Constructing a Latrine for the use of the Detachment of the Regiment Stationed at Bhyporé

Reference.

Report.

The accompanying Estimate has been prepared in accordance with the design approved of by Dr Smith Deputy Surgeon General

Specification

The accompanying plan has been designed so that the sweepers gangway shall be outside the Enclosing Wall of the Barracks.

The foundation and Superstructure to be of Brick in Chunam and the Roof of teak wood Couples placed 12 feet apart from Centre to Centre and Covered with pan tiles.

The floor to be formed of Concrete laid to a Consolidated depth of 3 inches over which a layer of

of asphalte ¾ thick shall be laid.

The floor of ___ pressers gang-way to be lowered 6 inches to facilitate the removal and placing of the buckets in the troughs E.E.E.

The saucer drain to be given a good fall to the Cistern H. The sides of the Cistern to be lined with stone slabs. The sides and bottoms of troughs to be also lined and floored with the same material

Woods C.E.
Queenstown Engineer
Pryce
Cork Division
23rd August 1875
Herbert Rees
Lieut R.E. Inspg

Estimate No. of 1875
Cork Division

Estimate of the probable Expense of Construction of a Latrine to the Barracks occupied by the Detachment of the 35th Regiment N.C. Inspd C.

Details of Work	No.	Dimensions			Quantities	Total
		Ft.	In.	D.		
Excavation Ex. Foundation for L. walls	3	12	2½	2	180	
" D° End walls 1st Room	2	7	2½	2	70	
" D° " " 2d " D°	2	4	2	2	32	
" D° Screen wall	1	10	1½	2	30	
" D° Floor of 2d Room		24	24	2	240	
				Total Excavation	Cft.	320
N.B. The Earth excavated from the Foundation- and floor of 2d Room shall be used for Banketing						
Filling in of the 1st Room						
Brickwork in Chunam						
Filling Foundation as per Excavation						320
Basement of Long W. K	3	1½	2	1	69	
Ditto of End walls	2	1½	2	1	30	
Ditto of D° 2d Room	2	4½	2	1	18	
Superstructure Long walls	2	14	1½	6	264	
D° End walls of D°	2	8	1½	6	144	
D° Long walls 2d Room	6	15	1½	5¾	95	
D° End walls of D°	2	5	1½	6⅞	93	
D° Screen wall with Arch	1	10	7		70	
D° Partition wall between Day & Urine	1	10	2½	4	20	
				Total		1123
Deduction Arch	1	1½	2½	7½	28	
D° D° D°	4	1½	2½	4	24	
Opening in wall	3	1½	1¼	2¼	9	
Arch work Balance	2/4	1½	1½		20	81
				BK work Cft.		1042

Honey Comb Fete work							
Below Gable Ends	2	8	0	2	32		
Gable Ends 1st Room	2	1	0	1½	20		
Total Honey Comb work Sqrs						52	
Plastering with Chemcum							
Interior of 1st Room all round		32	0	6	192		
Ditto Ditto walls	2	0	0	2	32		
Ditto 2nd Room around		26	0	5½	170		
Exterior Basement		49	0	1	49		
Walls above		47	0	6	282		
Front wall	1	11	0	2	22		
Gables in roof of 2d Room	4	5½	0	1	22		
Screen wall	2	9½	0	7	133		
Partition wall on 1st Floor	1	8	0	4	32		
Total						934	
Archway 1st Room	1	2½	0	7½	18		
D° 2d Room	1	2¼	0	7	16	34	
Total Balance of Plastering Square						900	
White and Color Washing As per Plastering Square						900	
Flooring with Asphalte upon a Base of Concrete Consolidated 6 in deep of 3 in		8	0	8	64		
Total Asphalting Sq yds						64	
Stone Slabs over opening Sides of Sloke	3	1¼	½	¼	3¼		
D° D° D°	6	1½	1½	¼	9½		
Bottom D° D°	3	1½	1½	¼	4½		
Total stones Cubic ft	3	2¼	½	1	6¾	24	
Teak wood Troughs Complete	3				No	3	
D° D° Ditto	1				No	1	

Teak wood wrought and Spotted							
Short Rafters at 1st Room	6	7	3	4	3½		
Long D° 1st and 2d D°	6	13	3	4	6½		
Colors & Couples	6	5½	3	4	23¼		
Wall plates	3	9	4	3	27		
Total Teak Wood Cft:						15	
Roofing with Paw tiles & teak rafters							
Front Slop	1	11½	0	7½	86¼		
Rear Slop	1	11½	0	13½	155		
Total Roofing Sq yds						241	
Constructing Cistern and Drain with Bk in Chunam Eyre Sports through wall and stone slabs & Bottom and Sides of Cistern Also over the Drain throughout as plastering the Drain through	Lumpsum					Rs.	10
Archwork over Doorway	2	4½	1½	1½	20		20
Dismantling old wall	Lumpsum					Rs:	1
Composition & Keep off white ants						D°:	2

From The Dist.t Engr.
Bangalore
To The Chief Engr.
Madras.

Dated 2nd October 1875.
Recd

Estimate & Specification
for Constructing a
Latrine to the Barrack
occupied by the Detach-
ment 30th Regt Native
Infantry at Ulsoor

Amounting to Rs 335—

No 6297/75.

GO—28 October 75
nos B No 4466

Imperial Military Original work

District Bangalore.

North— Making certain Alterations and additions to the Latrine of Sappers Hospital Saint Johns Hill Barracks at Bangalore vide Mem.dum Asst Qr Master General Mysore Div.n No 292 dated 17th July 1875—

Particulars of work | Measurement | Contents | Estab

Dismantling

Oval openings to back wall	5	1	1½	1	7½
Present screen wall inside	4	4	1	5	80
Basement to Do	4	4	1½	1½	36
Present screen walls ends	2	4	¾	5	30
Basement to Do	2	4	¾	1½	9
				Total cft of Dismantling	162½
Do Present floor		1	15	7½	112½
				Total Sqrs of Dismantling stone floor	112½

Excavation

Back wall	7	26	2½	2	119½
Cess pit	1	2	2½	1	5½
Side walls of dry earth store inside of latrine	1	5	1½	1	6¾
Water Cistern	1	6	4	2½	40
Steps	1	4	2½		14
				Total cft of Excavation	175

Foundation

Particulars of work	No.	Measurement L	B	D	Contents	Estab
Foundation						
Back wall of gangway	1	26½	2¼	2	119¼	
Steps	1	4	2½		4	
Estab Cft of Foundation stone in Chamm						123
Basement						
Back wall of gangway	1	26½	1¾	1½	69 9/16	
wall for earth shore Do	1	8¼	1¼	1½	15 15/32	
Do inside of Latrine	1	5	1¼		6¼	
Steps	1	4	2½		4	
Estab Cft of Basement stone in Chamm						95 7/32
Concrete						
Under the seats & pyat						
next of seats	1	24	12½		18¾	
Under washing place	1	2½	4½		5	
Front of seats under slate						
Do flooring	1	12	4¼	¼	14¼	
Do	1	3¼	2½	¼	2 1/32	
Estab Cft of concrete						40 1/32
Brickwork in chamms						
Back wall of Gang way	1	14½	1½	6½	117 13/16	
End wall to Do	1	6	1¼	7¾	5 8/8	
Side walls of earth shore Do	1	8¼	¾	2	12 3/8	
Splash next of the seats	2	2	7¼	1⅜	20 23/64	
Sloped portion in front of Do	4	5½	1	½	23	
Chamber in front of seats	1	12¾	¾	¾	7 11/64	
Wall in front of washing place	1	3½	⅜	½	21/32	
Wall of earth shore inside of latrine	1	5	¾	½	7½	
Blowing up small arch	1	2	1½	arc	2½	
Wall for Cess pit	1	2¼	¾	2	3 3/8	
& looking to Do	1	2¼	2¾	¼	4 61/64	
L. C.					236 169/192	

Particulars of work	No.	Measurement L	B	D	Contents	Estab
						13P
Brought over					236 169/192	
	1	6¾	¼	2½	2 1/32	
Side walls of water cistern	2	¾	¾	2½	8 29/32	
Floor to Do	1	4	4	1	16	
Estab					282 69/192	
Deduction						
Space for honey comb work in rear	1	4¼	4		2¼	
Do Do end walls	2	6	4¼	4	50	
Estab Deduction					71¼	
Estab Cft of Brickwork in Chamm					211 121/192	
Sft of Honey comb tile work					91	57
Sft of steps						9
Plastering						
Back wall both sides	2	21¼	7¾		329⅜	
Rear wall	1	15½	5		77½	
	1	2	2		4	
Sides of opening in rear of seats	4	½	3½		7	
road in front of washing place	2	3	14		21	
Side wall of earth shore	1	8¼	24¼		39 3/16	
Do Do in Privy	1	5	4¼		23¾	
Outside of water cistern	1	8	1		8	
Sides of road opening	5	3	½		2½	
Sides of Basement to rear walls	2	30½	1½		45¾	
Estab					577 13/16	
Deduct space for honey comb work	1	4¼	2	4	34	
Do Do	2	5	2	4	80	
Total					114	

Particulars of works	No.	Measurement		Contents	Total
Brought Over					
Total Deduction				114	
Total Sqrs of plastering with Chunam				464 5/16	
Cement plastering					
Around the water cistern	1	8	2½	20	
Top of Do	1	6¾	1¼	8 7/16	
Do	1	4¾	¾	3 9/16	
Floor of Do	1	2	2	4	
Around the cess pit	1	8½	2½	21¼	
Floor to Do	1	2¼	2	4½	
Top of Do	1	2¼	¾	1 11/16	
Total Sqrs of Plastering with cement				63 7/16	
Whitewashing					
Around the Latrine	1	41	7	329	
Gable ends	2	8	1½	24	
Back wall	1	32½	8	260	
Wall for earth store	1	8¼	4	33	
Top of Do	1	8¼	¾	6 3/16	
Coping to screen wall in front of Privy	1	6	3	18	
Total Sqrs of Whitewashing				670 3/16	
Br limewashing					
Front of Latrine	1	17	10	170	
Rear	1	23¾	10	237½	
Ends	1	11	12	132	
Back wall of gang way	1	14½	6½	94¼	
Curb walls of Do	1	7¼	8	58	
Do Do	1	1¼	8	10	
Basement		60	1¼	75	

Particulars of work	No.	Measurement		Contents	Total
		L	B	D	
					159
Brought Over					5 06¾ 660
Screen wall in front of privy	2	7¼	6½	94¼	
Total Brickwork					661 sqrs 661
Wood work					
Br ness summers to gang way	1	14½	3¾	5¼ 1-14 9/32	
Rafters to passage	11	9¾	2½	4½ 8-4 62/16	
Wall plates	1	14½	4	2 1-9 -8	
Uprights to Cross partition	4	5½	3	3 1-4 -8	
Total cft of Teak wood work in frame and partition					312-6-8/32
Nails 7 inches long	22				22 22
Roofing with teak rafters nails flat and pan tiles & Chunam borders	1	15	10	150	sqrs 150
Turning tiles to Privy with new tiles &c	1	19	14	266	sqrs 266
Cft of Ridge ventelator with rafters collar pieces, uprights & rafters flat & pan tiles and Chunam borders	8			8	8
Filling					
Gang way	1	14½	5½	1½ 94 7/8	
Total Cft of Filling in basement					94 7/8
Flooring with stone slabs					
Gang way	1	13½	5½	72 7/8	
Earth store inside of Latrine	1	2½	1¼	4 3/4	
				77¼	
Deduct cross wall of earth store				10 5/16	
Total Sqrs of stone flooring				66 15/16	
Asphalting					

Particulars of work

Particulars of work	No.	Measurement L	B	D	Contents	Estab
Asphalting						
Washing floor with hot asphalt	1	12½	8		124	
Redust with sand	1	3¼	2½		8⅛	
Estab Sqrs of Asphalting	1				132⅛	
Matting						
Around the Latrine 3 feet from the floor	1	47		3	141	
Estab Sqrs of Matting					141	
Wooden tarred buckets 12" Dr at top 10 at bottom and 12 high	8				8	8
Ablution tarred tubs 12" Dr at top 18 Dr at bottom & 18 deep	2				2	2
3 five pipe 2¼ feet long and 1½ inch Dr to be fixed in rear of washing						
Urinal tub	1				1	1
Iron partitions						
For screen	1	3½		5	17½	
Do	1	2¾		5	13¾	
Estab sqrs Iron partitions					31¼	
Wooden covering to cess pit	1	2½	2¼		1	1

Estb

Specification to accompany Plan and Estimate for Making certain Alterations and additions to the Latrine of Sapper Hospital Saint Johns Hills Barracks at Bangalore.

Amount of Estimate Rs 3160.

The present partition walls and flooring to be dismantled and the rubbish carted away.

Six additional verandah will be attached in rear of latrine for the storage of the carts and entrance of Coly, inside measurement 13¼ × 6

The excavation for foundation to be dug to a depth according to the nature of the soil until a hard and uniform soil is obtained.

The foundation and basement walls to be of stone laid in chunam well bonded and closely packed with neat joints and at least every sixth to be a through header.

The superstructure will be built of good sound well burnt bricks in Chunam and English bonds to be observed throughout Joints to be as neat as possible.

The spaces between pillars in rear and end of going away are to

are to be closed with open tiles in honey comb work as shown on the plan.

Two doors opening of 12 to be fixed in the present wall of latrine.

The walls to be plastered with two coats of chunam after the joints have been raked out.

The water cisterns and cresset to be plastered with two coats of Portland cement.

The interior of the building to be whitewashed and the exterior limewashed each with two coats.

The Gangway will be roofed with teak rafters, nails flat and pan tiles and chunam border rubbed shortened on teak rafters 2"x4½" placed 1½' apart from centre to centre resting on wall plates as shown on the plan.

The tiles on the present roof of the latrine will be removed and replaced with new pan tiles.

A ridge ventilator will be provided for the present roof of the latrine.

The inside of latrine & washing place will be floored with concrete 3" thick well rammed on which an asphalte flooring will be laid and the gangway with stone slabs.

The walls around the inside of latrine to be coated with two coats of coal tar to a height of 3 feet from the floor.

Eight wooden tarred buckets 12" dia at top 10" dia at bottom and 12" high and two ablution tarred tubs 12" dia at top 18" dia at bottom and 18" deep will be provided also a tub for urinals.

A brass pipe 1½" dia and 2¼ long to be fixed in rear of washing place for carrying the ablution water into the cresset.

Two Iron partition 3½ ft broad and 5 feet high with wooden frames etc will be fixed on on the side of the seat and a mother in front of it as shown on the plan.

The cresset will be covered with a teak wood covering plank having 8 ventilators with frames etc.

Executive Engineer
Major R E
District Engineer

Lalb
Asst to Engr in Chief
Bangalore
28th August 1895

Original work

Imperial Military

Detail Estimate No 101 of 1875/76

District Bangalore.

Work... Covering the space between the Sergeants Mess cook house and Canteen godown R.E. No 1 to form a cook house for 2 Married Families Nelson Barracks.

Ref. Asst Dr Mr General Im. Dy No 320 of 31st July/75

Particulars of work	No	Measurement L	B	D	Contents	Total
Dismantling the coping over the present screen wall	1	8½	1¾	¾	11 5/32	
				Total of dismantling		11 5/32
Excavation to front wall	1	8½	2	3	48	
				Total of Excavation		48
				Total of Round Latour chunam		48
Superstructure						
Front wall	1	8½	1½	7½	95 5/8	
Rear wall Cover Coping	1	8½	1½	2⅝	31 7/8	
				Total		127½
Arch	1	1½	3½	6½	34 3/8	
Deduct doorway	1	5	1½	3	22½	
Arch do for do	1	5	1½	3	36 6/8	
				Total Deduction		36 6/8
				Total superstructure chunam		90 2/8
Plinth Coping						
Circle stone over door	1	5	½	⅓	6	6
Round stones	3	1½	3			

Ref

From

The Executive Engr
Bangalore

To

The Chief Engineer
& Secretary
Allahabad

Dated 2nd October

Rec'd 14th Oct 1875

Estimate for Repairs

For certain alterations
and additions to the
Cantonment Police Huts

Civil Station Bangalore

Allahabad the 13th October 1875

Superintending Engineer
Circle

Particulars of work	No.	Measurement			Contents	Total
			L	B	D	
Pft of Corrug'd work to Eaves & roof						
	1					1
Plastering						
Front & wall both sides	2	9	.	7½	135	
Rear wall Do	2	9	.	3	54	
Total Sqrs of plastering with Cleanings						189
Whitewashing						
Inside		34	.	8	272	
Gables	2	8½	.	2	34	
Total Sqrs of whitewashing						306
Blueswashing						
Front & rear wall	2	8½	.	7¼	123¼	
Total Sqrs of Blueswashing						123¼
Wood work						
Rafters for Couples	14	6¼	2½	3¼	4-5-3 27/82	
Collar pieces	7	6¼	2	3	1-12-10 1/2	
Wall plates	2	8½	4		2-0-11-4	
Total Sqrs of Teak wood wrought & unwrought						4-2-6 11/32
Nails 5 Inches long	35				35	35
Sqrs of Roofing with Teak reform nails flat & ridge tiles & Chunam border	1	9	¼		126	126
Rft of Ridge & Gentilaber		3½		1	3½	3½
Fire place 3 feet wide and 2½ high	1	8½			8½	8½
Sqrs of Flooring to Cook house with Stone Slabs	1	8½	5		42½	42½
Levelling Course of concrete	1	8½	5		42½	42½

Particulars of work	No.	Measurement			Contents	Total
		L	B	D		
Battened door 3½ × 6½ with frames and Iron fittings complete	1				1	1
	1	4	2	7	56	
Painting to door						56
Total Sqrs of Painting with chocolate Color						

Fell

Specification to accompany
Plan and Estimate for Covering the
space between the Sergeant Mess
Cook house and Canteen godowns to
form a Cook house for two Married
Families, 8th H.L.I. at Ulsoor Barracks
at Bangalore

Amount of Estimate Rs 1600-0

The coping over the present
compound wall to be dismantled
and the rubbish carted away.

The excavation for
foundation to be dug to a depth as
shown on the Plan.

The foundation to
front wall to be built with stone in
chunam and 1 feet thickness of brick
in chunam.

The old and new brick
work to be well bonded together
by bond stones 3 feet in length
will be placed over doorways directed
to be so placed.

The walls to be plastered
with two Coats of chunam and the
joints have been raked out.

The interior of the building
to be whitewashed and the exterior limed
washed

washed each with two Coats.)

The space between the present Cook-house and godown to be covered with tile roof supported on teak wood Couples with Collar pieces. The rafters (for Couples (2¼ × 3½) and Collar pieces (2 × 6) The Couples to be placed 1½ feet apart from centre to centre nailed on the wall plates (4 × 2) and to be covered with teak Jeffery flat and pan tiles and Chunam borders.

A ridge Ventelator will also be provided and fixed for the roof.

The floor to be platform constructed as per plan of brick in clay plastered with mud and washed with Cow-dung.

The Cook house to be floored with stone slabs not less than 4" thick with the edges dressed square to be laid on a bed of Concrete 3 thick & joints cement pointed & finished with Chunam.

A battened door 3' 2" × 6' 6" with frames 3" × 4" hinges hooks to be & bolt fittings complete will be provided.

J. W.

The door to be painted with two coats of chocolate color.

Dewd for Lt Col Major R.E
District Engineer

Lib
Distt Engrs office
Bangalore
7th September 1875

No. 110

DISTRICT ENGINEER'S OFFIC

From Bangalore 12 August 1

The District Engineer,

To Bangalore.

The Chief Engineer

Public Works Department.

Madras

Sir

I have the honor to forward here
for sanction the undermentioned Estimat
and Plans.

1. Estimate amounting to Rs 335 with Specif
cation for Constructing a Latrine to the
Barracks occupied by the Detachment 30th Reg
Native Infantry at Mysore

1 Estimate amounting to Rs 370 with Specification
for certain alterations and additions to the
Latrine of Sappers Hospital & St Johns Hill
Barrack at Bangalore

1. Estimate amounting to Rs 160 with Specifi-
cation for roofing in the Square between
the verandahs, Cook house and Cantee
to form a Cook house for 2 married
families R. H. A. Tolevor Barracks at Bangal

The plans and Estimates have been
prepared at the requisition of the Officer
Commanding the Division and have
met with the approval of His Excellency
the Commander-in-Chief

I

I am unable to point out the source
from which the cost of the work can be
met as the allotment under the head
Minor New Works for the current official
year has already been exhausted.

I have the honor to be
Sir
Your Most obedient Servant
Richd Strachey Major RE
District Engineer

6297

Civil Works

L.E. Baugalore

25th Oct. 1851

Nos. 466-467

Labour &c. Bangalore

Petitions for construction of
new alterations &c certain
Cutcherry, Sanctioned -