

RECEIVED
MADRAS RECORD OFFICE
11/11/1930

M.R.O. 1-32,400-15-11-30

MADRAS RECORD OFFICE.

Government of Madras.

Public Works DEPARTMENT.

G.O. No.	1307	Press Mis.
Dated	7/11/18	

Not to be folded or roughly handled

Fort Saint George, Public Works Consultation of 13th July 1858.

No. 5. Read the following letter from Major E. LAWFORD, Superintending Engineer Southern Circle, in charge of Central Office Public Works; to W. H. BAYLEY, Esq., Acting Secretary to Government, dated 10th June 1858, No. 1034.

SIR,

With reference to Extract Minutes Consultation No. 1906, dated 9th October 1857, I have the honor to forward, for submission to Government, a revised plan and estimate of a Tower proposed to be constructed in the vicinity of the Barracks at Jackatalla, to include a Magazine and Camp Equipage Godown, as well as a provision Godown, and Water Cistern, at a cost of (27,000) twenty-seven thousand Rupees, but as the expense of the Magazine and Camp Equipage Godown is already sanctioned* in the estimates to the amount of Rupees 14,450, the total additional sum requiring sanction is Rupees (12,550) twelve thousand, five hundred and fifty.

* Extract Minutes Consultation No. 1599, dated 18th August 1857.

2. This building originally suggested by Captain Campbell having already received the approval of His Excellency the Commander in Chief, I need not do more, than express my satisfaction with the details of the plan and estimate which appear perfectly suitable to the purpose.

3. Another estimate submitted by Captain Francis, is one for connecting the different blocks forming the Barrack square by means of arches, and this amounts to Rupees (3,800) three thousand and eight hundred, and is also approved by the Military authorities.

4. A third estimate now forwarded, is for forming an earthen parapet around the Barracks for purposes of defence, amounting to Rupees (3,800) three thousand and eight hundred.

5. Of the necessity for this work of defence, it is not perhaps my duty to speak, since it also has met with the approval of the Commander in Chief, but it might otherwise appear, that the commanding site of the Barracks, and their peculiar Geographical position would render such works scarcely necessary.

6. Should the Government be pleased to recommend for the sanction of the Government of India, all the works now proposed, the amount of additional expenditure required, would be Rupees (20,150) twenty thousand, one hundred and fifty.

Letter from Captain P. M. FRANCIS, District Engineer of Coimbatore; to Colonel C. E. FABER, Chief Engineer; dated Camp Jackatallah, 7th May 1858, No. 141.

SIR,

Adverting to the instructions contained in your letter No. 6021, dated 16th December 1857, I have the honor to forward a plan and estimate for the Tower, modified from Captain Campbell's original design, and also from my former proposition, as I shall shew below.

2. In my letter No. 56, dated 16th November 1857, I stated, that I considered Captain Campbell's idea of applying this description of Tower (for general information regarding which, see 3rd Volume of Professional papers of the Royal Engineers) to Jackatalla as highly commendable, and that nothing was more important than that stores and particularly ammunition should be protected from sudden surprise; the Commissariat Store Godowns are already built, I therefore proposed to alter the position of the Tower, and instead of placing it on the hill, which Captain Campbell had fixed upon, to place it as indicated in the accompanying plan, and the two sites having been inspected by the Commander in Chief, this latter was highly approved by him; it will serve to defend the Commissariat Stores, Mill and Bakery, cover the Cutwallee and bazar, and to sweep the principal roads, whilst it will be further removed itself from being commanded, and when armed with two nine pounders and two twenty-four pounder howitzers, as proposed by the Commander-in-Chief, it will afford support to the Barracks; this Tower would be about 150 yards further from the centre of the Barracks, than if it were placed at the spot originally chosen by Captain Campbell, or 750 yards in all.

Fort Saint George, Public Works Consultation of 13th July 1858.

3. Considering the position in which this Tower will be placed, on the crest of a hill, and under the supposition that an enemy (such as we need alone to provide against) would not possess Artillery, there seems no object in sinking the Tower into the ground, in order to cover its walls, as more particularly required in the examples from which Captain Campbell derived his plan, the greater command it has here over the country, I consider the better, and I would therefore build it on the natural level of the hill, but to strengthen the position, I would dig a ditch round it at a distance of 20 yards and with the debris form a glacis.

4. Captain Campbell included all the small detached buildings still sanctioned, but not already built under this one cover, in order to give greater size to the Tower, but I prefer a different arrangement of the interior as shewn in the accompanying plans, giving fewer walls and more air, the shot drill room might be more advantageously placed in the regimental prison,* I had intended to place the Gun sheds on the top of the Tower to cover ordinarily the two light Guns attached to this station, but since the Commander in Chief proposes a separate armament, the sanctioned Gun shed should be built where the Guns are most available for the practice of the Regiment.

5. Thus placed and with asphalted floors to the Magazine, the Tower would be perfectly dry, the cistern is shewn below the compartment containing the stair case, the water must be pumped into it by a force-pump put upon the spring just below the road, the Barrack stream might be brought nearer, but it would not be such good or wholesome water.

6. Below is a comparative statement, shewing the areas originally sanctioned and provided for in the Tower. In case of an attack the tents could be stowed away among the Carts and Doolies below, and the whole upper-story would be available for a small garrison and their stores, the loop-holes would, at ordinary times, be closed by shutters within, and the windows to the lower and upper stories would have musket proof shutters, to be closed whenever it was necessary to open the loop-holes, the door would be musket proof and loop-holed, a supply of sand bags should always be kept in store for laying on the upper parapet; the bridge might be fixed, but capable of being shut off by a stockade gate.

Table of Comparative Areas.

Name of Building.	Area of Original building.	Area in Captain Campbell's Tower.	Area in Captain Francis' Tower.
Magazine new...	Square feet. 160	Square feet. 407	Square feet. 375
Punishment sheds ..	1,200	1,139	Omitted from Tower.
Camp Equipage godowns..	4,014	2,704	3,281
Gun sheds...	396	1,458	Omitted from Tower.
Cistern...	"	90	262 1/2
Provision store...	"	"	225
Barrack room...	"	"	483 1/4
Total.....	5,770	5,803	5,159

7. The cost of Captain Campbell's including glacis is at 666 Rupees per square, 31,900
My Tower including glacis.. 27,000
Separate Punishment shed as per sanction... 3,270
Separate Gun sheds do... 740
Difference..... 890

money difference in favor of my tower 890 Rupees; I have supposed that the centre room upstairs would always be kept available for stores of provision, and that one room would always be occupied by a guard, but, if these areas were added to the rest of the Camp Equipage, almost the full amount of space provided in the originally sanctioned buildings, would be obtained.

George, Public Works Consultation of 13th July 1858.

subject of defences, I beg to lay before you, that I proposed for the Commander in Chief, whether it would not be well to finish off the Barrack and banquette revetted with turf, it would look neat and appropriate not, off the air, and might on occasion be useful; as many openings as required chevauxdefrise kept in store to close them when necessary; this proposed approbation of the Commander-in-Chief, and a plan and estimate, 800 are accordingly submitted as directed by him. This inclosure would be from the eastern rise, but a few traverses might be thrown up, and it a fire from the upper terrace of the Staff Quarters back verandah, could ant of Musketry from the Hill side; on the same subject the Commander communications should be considered between the different blocks of building to be a thorough communication all round, and in order to save time and complete this report; the plans and estimates have been prepared and have met His Excellency's approbation. See his letter* at therefore stand thus:

	Rs.
... ..	27,000
d ramps...	3,800
mmunication between blocks...	3,800
	34,600
azine...	1,130
age	13,720
	14,850

sanction required, Rupees..... 19,750
inal Tower plan and estimate are returned herewith, and in his letter No. er 1857, he shews the additional sanction required on account of his Tower if the items 2 and 3 above were added for comparison sake, it would shew nearly 2,000 Rupees more cost, than that now proposed.

A. REID, Quarter Master General; to Captain P. M. FRANCIS, Dis- Jackatalla, dated Ootacamund, 7th May 1858, No. 73.

SIR,

In returning the several plans forwarded by you for submission to the Commander in Chief, I have the honor, by order, to convey to you His Excellency's entire approbation of the whole. A plan of the Cantonment of Jackatalla is likewise returned.

ORDER THEREON, No. 1301; dated 7th July 1858.

lilitary Department for consideration. A copy of the order dated 9th to in Major Lawford's present letter, will be furnished to the Military

(Signed) T. PYCROFT,
Chief Secretary.

5
Lt. Col. General's Office
No. 73.

To
Captain Francis
District Engineer
Jackassalla

Sir,

- 1 Plan of Tower.
- 1 Set of defensive
works of Alaskan
- 2 do. of connecting
arches for the
several ranges
of Barracks.

In returning the several plans &
forwarded by you for submission to the Commander
in Chief, I have the honor, by order, to convey to
you His Excellency's entire approbation of the whole.

A Plan of the Cantonment of
Jackassalla is likewise returned.

I have the honor to be Sir,

Signed J. A. Reid

Lt. Col. General

Trade Quarters

Atacama

11 May 1858

1 True Copy

Signed P. M. Francis

District Engineer

1 True Copy

Surveying
Supt. Engineer by his order
of the Central Office of P. M.

Camp 88

Sir,

Obedient to the instructions com-
-municated in your letter No. 6021, dated 16th December
1857, I have the honor to forward a plan and Estimate
for the same, modified from Captain Campbell's
original design, and also from my former proposition
as I shall show below.

2 In my letter No. 56, dated 16th November 1857, I related that I considered Captain Campbell's idea of applying the description of tower / for general information, regarding which see 3^d Volume of professional papers of the Royal Engineers / to Jackaballa as highly commendable, and that nothing was more important than that stores and particularly ammunition should be protected from sudden surprise, the Commissariat store Godowns are already built

I therefore proposed to alter the position of the tower and instead of placing it on the hill, which Captain Campbell had fixed upon, to place it on a site having been inspected by the Commander in Chief, the latter was greatly influenced by some small hill to defend the Commissariat stores, Mill and Bakery, cover the Cutwalles and Bazar, and to sweep the principal roads whilst it will be further removed itself from being commanded and when armed with two nine pounders and two twenty four pounder howitzers as proposed by the Commander in Chief it will afford support to the Barracks, this tower would be about 150 yards further from the Centre of the Barracks than if it were placed at the spot originally chosen by Captain Campbell or 450 yards in all.

3 Considering the position in which this tower will be placed on the crest of a hill and under the supposition that an enemy such as we need alone to provide against would not possess Artillery there seems no object in sinking the tower into the ground in order to cover its walls as more particularly required in the examples from which Captain Campbell derived his plan the

13 the greater commands it has here over the Camp, I consider the better, and I would therefore build it on the natural level of the hill, but to strengthen the position I would dig a ditch round it at a distance of 20 yards and with the debris form a glacis.

4 Captain Campbell included all the small detached buildings still sanctioned, but not already built under this one cover in order to give greater size to the tower, but I prefer a different arrangement of the interior as shown in the accompanying plans giving fewer walls and more air, the shot drill rooms might be more advantageously placed in the regimental prisons, I had intended to place the Gun sheds on the top of the tower to cover ordinarily the two light guns attached to this station, but since the Commander in Chief proposes a separate armament the sanctioned Gun sheds should be built where the Guns are most available for the practice of the Regiment.

5 This placed and with asphalted floors to the Magazine the tower would be perfectly dry, the cistern is shown below the Compartment containing the staircase, the water must

+ see sketch plan and Commander in Chief's opinion appended. I had intended to place the Gun sheds on the top of the tower to cover ordinarily the two light guns attached to this station, but since the Commander in Chief proposes a separate armament the sanctioned Gun sheds should be built where the Guns are most available for the practice of the Regiment.

must be pumped into it by a force pump put up on the spring just below the road, the Barracks stream might be brought nearer, but it would not be such good or wholesome water.

Below is a comparative statement shewing the areas originally sanctioned and provided for in the tower. In case of an attack the tents could be shawed away among the carts and Doolies below and the whole upper story would be available for a small garrison and their stores, the loop holes would, at ordinary times, be closed by shutters within and the windows to the lower and upper stories would have bullet proof shutters to be closed whenever it was necessary to open the loop holes, the door would be bullet proof, and loop holes a supply of sand bags should always be kept in store for laying on the upper parapet, the bridge might be fixed but capable of being shut off by a stockade gate.

Table

Table of Comparative Areas.

Name of Building	Area of Original Building	Area in Captains Campbell's tower	Area in Captains Fraser's tower
	square feet	square feet	square feet
Magazine new	160	110 1/2	375
Armament sheds	1200	1139	omitted from tower
Camp Equipage & Ordnance	4014	2704 1/2	3281
Guns sheds	396	1458	omitted from tower
Citadel	"	90	262 1/2
Provision store	"	"	225
Barracks roomy	"	"	483 3/4
Total	5770	5803	5159

The cost of Captain Campbell's including glass is at 666 Rupees per square 31900
 my tower including glass 27000
 separate armament shed per sanction 3270 } 31010
 separate Gun sheds &c 740
 Difference 890

money difference in favor of my tower 890 Rupees
 I have supposed that the centre room upstairs would always be kept available for stores of provision and that one room would always be occupied by a guard, but if these areas were added to the rest of the Camp Equipage, almost the full amount of space provided in the originally sanctioned buildings

buildings would be obtained.

8. While on the subject of defence I beg to lay before you that I proposed for the consideration of the Commander in Chief whether it would not be well to finish off the Barracks or platform by a parapet and bury with masonry with surf, it would look neat and appropriate, not be high enough to keep off the air, and might on occasion be useful; as many openings as required might be left in it and chevrons of iron kept in store to close them when necessary this proposition met the decided approbation of the Commander in Chief and a plan and estimate, amounting to Rupees 3800 are accordingly submitted as directed by him. This inclosure would of course be commanded from the eastern side, but a few bastions might be thrown up, and it would be hard indeed if a fire from the upper terrace of the Staff Quarters back verandah, could not keep down any amount of shooting from the Hill side, on the same subject the Commander in Chief desired that communications should be considered between the different blocks of buildings, so that there might be a thorough communication all round, and in order to save time and complete this report the plans

17/3 dated 17/3
May 1858

13
plans and estimates have been prepared and have met His Excellency's approbation see his letter attached. The estimates therefore stand thus.

1. Tower _____ Rs 2,000
 2. Parapet and ramps _____ " 3,800
 3. Arched communication between blocks _____ " 3,800
- 34,600

Deduct Magazine 1130

Camp Equipage 13720 14,850

Additional sanction required Rupees 19,750
Captain Campbell's original Tower plan and estimate are returned herewith and in his letter of 17/3 dated 6th November 1857, he shows the additional sanction required on account of his tower to be 14,020 to which if the items 2 and 3 above were added for comparison's sake it would show that his work involved nearly 2000 Rupees more cost than that now proposed.

District Engineer's Office
Camp Jachakalla
17th May 1858
I have the honor to be
Signed P. M. Francis
District Engineer

True Copy
Supt. Engineer & Civil Engineer
of the Central Office of P.W.

Contd.

Buildings () (New Work)

Abstract of Estimate No of 185 /5

District Coimbatore

Work Constructing an Earthen Parapet with ramps 4 1/2 ft around the Barracks Plateau at Juckatalla.

Quantities	Description of Work.	Rates.			Amount.	Amount of each part.
		R ²	11 1/2 P	Rupies.		
5992	Earth work ————— Cyt	"	4 "	1498		
5706	Surfing ————— 1/2 ft	"	2 "	713		
5814	Cyt Removing & filling in earth work Cyt	"	3 "	1090		
	Contingencies —————	"	"	499		
Total Company's Rupies —					3800	

Central Office of P.W.
Fort Saint George.
10 June, 1858,

Sup: Eng: & Civil
In: Ch: of the Central Office of P.W.

1858 June 10

Enclosed in the letter of the 10th inst. of the Central Office of P.W.

to the District Engineer at Coimbatore

for the purpose of the work at Juckatalla

1858 June 10

Copy to be sent to the District Engineer at Coimbatore for the purpose of the work at Juckatalla

<i>Quantities</i>	<i>Description of Work.</i>	<i>Rates</i>			<i>Amount</i>	<i>Amount of each part.</i>
		<i>R^s</i>	<i>A^s</i>	<i>P.</i>	<i>Ruppes</i>	<i>Ruppes</i>
<i>6 Yds.</i>						

W 2483/58

Enclosure

Ina Letter

Sir,

The Sup: Eng: South: Circle
In: Ch: of the Central Office of P.W.

To,

The Secretary to Govt
P.W.

~~W 2483/58~~

Dated 10th June/58
Recd

N: 1034

Abstract Estimate for constructing an
Earthen Parapet with ramps 4^{ft} -
around the Barrack Platform at
Jachatalla in the District of Coim-
batore.
Amounting to Comp: Rs 3800 -

Buildings ()

(New Work)

Abstract of Estimate No of 185 /5

District Coimbatore

Work. Constructing Archways to Connect the Barrack and Staff Quarters
situated between the upper Verandahs

Quantities	Description of Work	Rate	Amount	Amount of each part
C. Yds.		Rs as P	Rupess.	Rupess.
	Archway between Staff Quarters + No 1 Block			
1298	Cft Brick in Channam 100 ft	2 1/2	312	
1140	Sq ft Plastering	7	80	
292	Sq ft Flooring with teakwood joints	6 1/2	192	
	Planks 1/2" over the Archway			
1	Door Complete		20	
	Contingencies		35	
	Total Cost of Archway between Staff & No 1 Block		640	
1	Di Di Di & No 2 Di		640	
1	Di Di Di No 3 & 5 Di		640	
1	Di Di Di No 1 & 5 Di		640	
	Total Cost of 4 Archways			2560
	Archway between No 2 & 4 Blocks			
1979	Cft Brick in Channam 100 ft	2 1/2	495	
1106	Sq ft Plastering	7	78	
2	Doors Complete - Each	20	40	
	Carriage Cost		593	2560

Quantities.	Description of work.	Rate.			Amounts	
		R ^g	Rs	P.	Amount.	Amount of each part.
C. Yds.	Brought over				593	2560
	Contingencies				27	
	Total Cost of 1 Archway between Nos 2				620	
	4 1/2 Blocks				620	
	1 - P ^r - P ^r - P ^r - No 1 & 3 Blocks				620	
	Total cost of 2 archways					1240
	Total Company Rupees					3800

Central Office of P.W.
Fort Saint George,
10th June, 1858.

See 1st m
Sup^r Viny S. C.
In Ch^g of the Central Office
P.W.

Quantities.	Description of work.	Rates.			Amount.	Amount of each part.
		R ^{rs}	at	P.	Rupees.	Rupees.
C. Yds.						
	Brought forward					22613
	<u>Wooden Bridges</u>					
1160	Cft. Bricks in Chancam — 400 cft	21	"	"	2111	
193 1/4	ft. Teakwood wrought and put up — cft	4	"	"	773	
	Planking nails — "	"	"	"	15	
	Total amount of 1 Bridge				1032	
	— 2 nd — of 2 — 2 nd					2064
	Sundries					2323
						27000
	Deduct the amount for baggage and stores on the 18 th August 1857. 3 rd 1859				1130	
	— 2 nd — 2 nd for Camp Equipage — 2 nd — 2 nd				13320	11150
	<u>Net amount requiring sanction</u>					12550

Central Office of W.
Fort Saint George
10th June 1858

Lawrence
Sup^{rt} Engineer Southern Circle
In. Ch. of the Central Office of W.

Enclosure

Dua Letter

From

The Sup^d Engineer S. C.

In Ch. of the Central Office
of P.W.

To

The Secretary to Govt.
P.W.

MM/1334/58

Date
Recd

10/3/58

5/10/54

Abstract Estimate for Constructing
Archways to connect the Muracks and
Staff Quarters all round between the
upper Verandah at Jachattalla in the
District of Coimbatore.

Amounting to Comp^d Rs. 3800

Buildings ()

(New Work)

Abstract of Estimate No. of 185 /5

District. Coimbatore

Work. Constructing a Defensive Tower at Jachattalla to contain Powder
magazine. Camp Equipage also a magazine for provisions and Cistern.

Quantities	Description of Work.	Rate.	Amount.	Amount of each part.
C. Pds.		R ^s as P.	Rupies.	Rupies.
31/17	Brick in Churnam	23	8639	
30759	D ^s D ^s D ^s D ^s	24	7382	
20889	Sup ^d Plastering with 2 coats of Ch ^s .	8	1671	
1633	Fl ^s flooring upper and lower St ^s .	20	924	
2160	D ^s D ^s upper St ^s with asphalt	110	861	
630	D ^s D ^s magazine and Cistern.	110	252	
	Strong Door with musket proof shutters covered with strong shutters	"	200	
	2 Ironed Doors for magazine	50	100	
	21 glazed windows with musket proof shutters complete	20	420	
	41 Straphole shutters complete	3	213	
	6 Pannelled doors complete	30	180	
	1 Granite Stair complete	"	100	
	1 Wooden ladder for upper story	"	20	
	1 Lightning Conductor	"	60	
	Wasting for Conductor	"	180	
	1 Pump and Wase	"	200	
916	Excavating foundation 8' C ^s	"	111	
564	Excavating trench around the tower forming glacis 8' C ^s	"	1051	
				22613
				22613

Quantities. C. Yds.	Description of work.	Rates			Amounts	Amounts of each part.
		R ^s	a ^s	P.	Rupees.	Rupees.
	Brought forward					22613
	<u>Wooden Bridges</u>					
1160	Ct. Bricks in Chancery	21	"	"	2414	
193 1/4	Teakwood wrought and put up	1	"	"	773	
	Planking nails	"	"	"	15	
	Total amount of 1 Bridge				1032	
	Sundries	2 ^s	of 2	1 ^s		2064
						2323
						27000
	Deduct the amount for magazine stock on the 15 th August 1854 A ^c 1849				1130	
	15 ^s 2 ^s for Camp Equipage	1 ^s	1 ^s	13320		14150
	<u>Net amount requiring sanction</u>					12550

Central office of M.
Fort Saint George
19th June 1858

Lawrence
Sup^y Engineer Southern Circle
In. Ch. of the Central office of M.

Enclosure

Ma

From

The Sup^d Engr^s Southern Circle
In ch. of the Central Office
of Mr.

To
The Secretary to Government
M.M.

Recd

Received

} June 1858

MM334/58

No.

Abstract Estimate for Con-
-structing a Defensive Tower at
Sackatalla to contain Powder
Magazine, Camp Equipage
also a Magazine for provisions
Eastern in the District of Cum.
-berland amounting to Rs.
Rupees 12,550 - " - "

Central Office of P.O.
Fort St. George 10 June 1858

No. 1034

From

The Superintending Engineer S. C.
in charge of Central Office P.O.

To

The Secretary to Government P.O.

Military

Sir,

With reference to D. M. S. Com.
No. 1906, dated 9th October 1857. I have the
honor to forward, for submission to Government,
a plan and estimate of a Tower
proposed to be constructed in the vicinity
of the Barracks at Sackatalla, to include
a Magazine and Camp Equipage Godown,
as well as a provision Godown, and
Water Cistern at a cost of /27,000/ Twenty
seven thousand Rupees, but as the expense
of the Magazine and Camp Equipage Godown
is already sanctioned in the estimate to the
amount of Rupees 14,450, the total additional
sum requiring sanction is Rupees /12,550/
Twelve thousand five hundred and fifty.
Rupees

S. M. C. P. O.
of 18th Aug 1857

2 This Building originally suggested by Captain Campbell having already received the approval of His Excellency the Commander in Chief, I need not do more than express my satisfaction with the details of the plan and estimate which appear perfectly suitable to the purpose.

3 Another estimate submitted by Captain Francis is one for connecting the different blocks forming the Barracks Square by means of arches and this amounts to Rupees /3,800/ Three thousand and eight hundred, and is also approved by the Military authorities.

4 A third estimate now forwarded is for forming an earthen parapet around the Barracks for purposes of defence amounting to Rupees /3,800/ Three thousand and eight hundred.

5 Of the necessity for these works of defence it is not perhaps my duty to speak since it also has met with the approval of the Commander in Chief, but it might otherwise appear that the

the commanding site of the Barracks, and their peculiar geographical position would render such works scarcely necessary.

Should the Government be pleased to recommend for the sanction of the Government of India all the works now proposed the amount of additional expenditure required would be Rupees /20,150/ Twenty thousand one hundred and fifty.

To His Highness
10 June 1858

I have the honor to be,
Sir,
Your most obedt. Servant.

Lawrence
Surge. Major. S. C. in Charge
Central Office of the

To The Secretary to Government.
P. H. D.

Comd. M.

27th June 1858 1858 Aug 31-34
in 1858 Aug 31-34

27th June 1858 1858 Aug 31-34
in 1858 Aug 31-34

27th June 1858 1858 Aug 31-34
in 1858 Aug 31-34

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