M.R.O. 1—77,006—8-6-37.

(1) Number of pages_____

(2) Date of repair_____

(3) Initials of the Referencer_____

MADRAS RECORD OFFICE.

Government of Madras.

Public Works DEPARTMENT.

2860-2861

G.O. No. 317, 318, 319, 380 — Press / Mis.

Dated 8-6-11 18 73

Not to be folded or roughly handled

Proceedings of the Madras Government, Public Works Department, 26th November 1873.

Read the following letters:—

No. 377. From Lieutenant-Colonel P. O'CONNELL, R.E., Officiating Deputy Secretary to the Government of India, Public Works Department, (Account—General,) to Colonel G. W. WALKER, R.E., Secretary to the Government of Madras, Public Works Department, dated Simla, 14th June 1873, No. 999-1 A. G.

I AM directed to invite attention to Public Works Department letter, No. 999 A. G., dated 9th December last, and, with reference to paragraph 3 thereof, to point out that the report and schedule of rates, etc., therein alluded to are now overdue, and to request that they may be sent forward as soon as possible.

No. 378. From Colonel C. H. DICKENS, R.A., Secretary to the Government of India, Public Works Department, (Account—General,) to Colonel G. W. WALKER, R.E., Secretary to the Government of Madras, Public Works Department, dated Simla, 23rd October 1873, No. 594 A. G.

I AM directed to invite your attention to Public Works Department letter, No. 999 A. G., dated 9th December 1873, and the subsequent reminder dated 14th June last, and to request that the Government of India may be informed at an early date as to when the schedules of rates and report thereon, therein referred to, will be forwarded by the Government of Madras.

No. 379. ORDER THEREON, 26th November 1873, No. 2,860.

ACCOUNT, No. 31.

ORDERED that the following letter be sent:—

(Here enter No. 2,861, dated 26th November 1873.)

(True Extract.)

(Signed) G. W. WALKER, Colonel, R.E.,
Secretary to Government.

Exd. E. C. Shunker:
Spare Copies

PUBLIC WORKS DEPARTMENT,
FORT ST. GEORGE, 26*th November* 1873.

No. 380.

No. 2,861.

FROM

COLONEL G. W. WALKER, R.E.,
Secretary to the Government of Madras,
Public Works Department,

To

THE SECRETARY TO THE GOVERNMENT OF INDIA,
Public Works Department,

ACCOUNT, No. 32.

SIR,—With reference to your letter, No. 999 A.G., dated 9th December 1872, and subsequent reminders, I am directed to submit, for the information of the Government of India, the schedule of rates prevailing throughout the Madras Presidency for the half-year ending 31st September 1872. Owing to the want of uniformity in the returns received from the newly-organized districts, this schedule is not so complete as might be desired, and I am to inform you that arrangements have been made by which a more comprehensive return, accompanied by exhaustive reports, shall be submitted for the future.

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

Colonel, R.E.,
Secretary to Government.

Exd. E. C. Shunker.

Spare Copies

Schedule of Rates of work &ca prevailing in the several districts of the Mad

Description of work.		Ganjam	Vizagapatam	Godavery	Kistna	Nellore	Cuddapah	Kurnool	Bellary	Penukonda	Chingleput	Southern Arcot	Arcot	Salem	Bangalore	Tanjore	Trichinopoly	
Labor.																		
Brick Klazers	per day					3	4	9							9		2	
Stone Cutters	" "					4	4								6		7	
Carpenters	" "					3	2	8							6		8	
Smiths	" "					4	4	6							6		6	
Sawyers	" "					4	4	6							3		7	
Male Cooly	" "					2	2	3							8		7	
Woman Cooly	" "					1	1	8							3			
Boy Cooly	" "					1	1											
Materials																		
Small Brick Pc	" 1000					5	5	6							7		3	
Native Brick Pc	" "					4	5	2							3		2	
Tiles	" "					1	1	1							2		2	
Flat tiles for roofing	" "					1	2	1							1		1	
Granite Chrst Rubble for roads	Cyd	65						9							4			
Laterite gravel for do	"	13				1	1								2		2	
Teakwood in the log	C. ft						3	6							1			
Jungle wood in do	" "					1	1	2										
Rates of work.																		
Rubble masonry in Mortar	100 Cft	6															7	
Rough stone large packed in aprons of Bridges	Cyd						1	2									1	
Brick work in Chunam	per 100 Cft	9															8	
do in clay	" "	6																
Flooring with granite paving stones	per 100 sq ft																	
do with paving bricks	" "																	
do with asphalte 3/4" thick laid on concrete	" "																	
Plastering with Lime & Coarse Chunam	"																	
White and Color washing	"																	
Best - Terraced roofing exclusive of wood work	"																	
Best - Tiled roofing - including teakwood rafters only	"																	
Thatch roofing including wood work	"																	
Teakwood brought and fitted	Cft																	
Jungle wood do do	"																	
Teakwood Pannel doors and windows including frames fastenings &c complete	Sq ft																	
do Venetian do do do	"					1	1	5										
do Glazed do do do	"																	
do Batten do do do	"																	
European wrought	Ton																	
Native iron do	"																	

...ies Residency for the half year ending 30 September 1873.

Remarks.

No. 594 A.G.

GOVERNMENT OF INDIA.

PUBLIC WORKS DEPARTMENT.

ACCOUNT.

General

All communications should be addressed to the Secretary.

To The Secretary to the Govt of Madras
Public works Department.

Simla, 23 October 1873.

Sir,

I am directed to invite your attention to Public works Department letter No 999 A.G. dated 9th December 1872, and the subsequent reminder dated 14th June last, and to request that the Government of India may be informed at an early date as to when the Schedule of rates and report thereon, therein referred to, will be forwarded by the Government of Madras.—

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

(W. Dicken) C.S.I.
Secretary to the Govt of India

No 1497

2

The Secretary Esquimalt
Public Works

Sir

In the date from mentioned with your letter of the 29th of August No 89, a Plan and Estimate for New Cistern Pump & Engine House, and Tenders received for the same. Also Plans and Tenders received for Repairs to Officers Quarters. I have the honor to inform you that the Plans are approved & the Tenders under my Department. As the Cost of Cistern & Pump House is more than the Amount of Tenders received for the same I would suggest that the Tenders be called for Pumping Engine & Boiler complete & delivered at Esquimalt by the Secretary of Public Works at Victoria

I have &c

[illegible]

Public Works 1878 Department
Rec'd Oct 1st Victoria
No 5872.

From
The Government of India

Dated 23rd October
Received 29th — } 1878

No 594 A. G.

Enquiring when the required Schedules of rates with reports thereon will be submitted

No 2860-2861-26-11-78

No 1574

To

The Secretary Govt of India

Sir,

The District Engineer of South Arcot points out that 10 printed forms of schedules & rates were received by him with Circular J. Dated 26 August 1873, & as Copies of these are required to be kept in the District & Range Offices, the above number is not sufficient, & applies for 12 more printed forms. I have the honor therefore to request you will be so good as to forward me with the same, for transmission & subscription for -

It would be a convenient matter if District Engineers also if they were supplied with blank copies of the form

6 Nov/73

Ell 7

No 1574

To

The District Engineer

South Arcot

Dated 14 November 73.

Sir,

I am directed to acknowledge receipt of your letter No 1574 dated 6th instant & to forward herewith 12 blank forms of Schedules & Rates as requested.

Letter No 89 dated 8th Nov 73.

Forwarded to the Inspecting Engr. for Buildings with reference to his letter No. 1574 dated 26th November 1873.

P.W. Defaulter
27th Novr. 1873.

Pellew Yorke Capt. R.E.
Under Secretary to Govt. P.W.D.
Rec'd 1st Dec. 1873

To The Inspecting Engr. for Buildings.

No 1576

Dec 12
from. Forwarded to the District Engineer South Circle with reference to this letter No 102, dated 21st ult. 1873.

for Executive Officer of Public Works

For Executive Officer

No 1574

To The Secretary to Govt. P.W.D.

Dated 26th Nov. 1873
Dept. 23

Sir,

Requests to be supplied with 12 printed circulars explanatory of the duties of Foremen employed on the Public Buildings.

I have the honor to be Sir Your most obedient Servant

For Executive Officer

District Engrs Office, S. Arcot.
Cuddalore 29th August 1873.

No 89

From

The Offg: District Engineer,
South Arcot.

To

The Inspecting Engineer for
Civil and Military Buildings.

Sir,

With reference to your letter
No. 934 dated 13th Instant, I have the
honor to forward herewith Data for the
rates entered in the Statement therewith
received for Brickwork in Chunam and
for Plastering, but I am unable to
furnish Data for Teakwood as Rs 3-5/-
entered in the above statement is not
the rate entered in my Schedules sub-
mitted for the half year ending 30th September
1872.

Enclosure 1
1 Data

2. Increase in the rates during the last
10 or 12 years is owing to the scarcity of
fuel and increase in the cost of labor.

I have the honor to be,
Sir,
Your most obedient Servant

Offg. District Engineer
S. Arcot

No. 96 Div.ll Engrs. Office, S. Area C.

Puttamtakam 10th September 1873

From,

The Offg. Div.ll Engineer,
24
South Area C.

To,

The Inspecting Engineer for
Civil and Military Buildings.

Sir,

With reference to the Circular No. [illegible]
of the 26th Ultimo from the Chief
Engineer C.P.W. on the subject
of Schedule of rates, I have the honor
to request you will be good enough
to inform me whether two Schedules are
required to be submitted from this
Office for each Range, that is, one
for the Range and one for large
works estimated to cost Rupees
50,000 and upwards, or only one
for

From,
The Div.ll Engineer
South Area C.

To,
The Executive Engineer
Civil & Military Buildings
Puttamtakam

No. 880 Dated 20th September 1873

Commanding Sala for
the Rifle Range at the
Cantonment Puttamtakam for
the half year ending 30th
September for Rupees and
Chainmen and Peons
ing and making the
incpne in the Rifle
the Lascars or Coolies e
ning to the practice
Civil and increase in the
cost of labour

for each Range, and in the latter case how the rates for large works are to be shewn, the rates in each Salary may also vary in some cases.

2. In the G.Os quoted in the Margin the Range Officers were required to send in work Registers with their Schedules, the form received with the Circular also quoted provides Columns for both the Estimated and actual rates, the latter to be filled in which the said Registers were required, should be now obtained by the Range Officers from these documents. It is therefore necessary, that these documents should still be submitted to this Office with the Range Schedules to be compared here with

No 1053 of 6th Sept 1872
938 of 26th March 1873

each other?

3. The Return in the Old form has been received from 2 Ranges for the half year ended 31st March last, and that for the 3rd Range is daily expected. If these are to be prepared in the new form, I apprehended that some delay will necessarily be caused, I request therefore to be informed whether it will not be advisable to adopt the new form from the half Year ending 30th September.

I have the honor to be
Sir,
Your Most Obed Servant

Officg Dist Engineer

8½×4.4½/4

y No. 1092

The District Engineer
South Arcot

Sir

In reply to your letter of the 10th September No 90 I have the honor to inform you that a remi schedule of rates is only required when there is in progress in the range a large work the estimate of which exceeds 50000. I believe there is only one such work in progress in your District. When the rates vary in each taluq either a separate schedule must be prepared for each taluq or the variation noted in the column of remarks of the range schedule

The G. O quoted in the margin of your remi para leaves it optional with District Engineers to call for the original work registers or copies. District Engineer might also obtain the information by inspection of the registers while at the works.

From
The District Engineer
South Arcot

To The Superintending Engineer
Public Works Department
Circle

Dated 11 September 1893

No 90.

Requires a list of the works with estimates in excess of Rs 50000 in progress in the District.

Received the 13th instant the information called for in the enclosed form.

Forwarded.

for District Engineer

With reference to canvas this
here, my opinion is that
the pictures should be according
to the new form

EMJ

D.L.2. Sept 03

With reference to correspondence

No 1092

To
The District Engr
South Arcot

Dated 12
Despd — } Sept 1873.

Furnishes the information sought for regarding the preparation of half yearly schedules of rates.

No 2 or Tindivanum Range
South Arcot District

of rates for the half year ending 31st March 1873

Details		Per	Rate Estimated	Rate actuals	Remarks.
Rates of Labor					
Skilled workmen					
ey		Month	15 "	15 "	
ter		Day	" 4 "	" "	
		"	" 3 "	" "	
		"	" 7 "	" 7 "	
yers		"	" 6 6	" 6 6	
		"	" 7 "	" 7 "	
ter		"	" 6 "	" 6 "	
		"	" 7 "	" 7 "	
ths		"	" 6 "	" 6 "	
		"	" 6 "	" "	
rs		"	" 5 "	" "	
Laborers					
oolyor gangman		Day	" 2 8	" 2 8	
man		"	" 2 6	" 2 6	
woman		"	" 1 3	" 1 3	
boy		"	" 1 6	" 1 6	
ishes		"	" "	" "	
man		"	" 4 "	" 4 "	
y man		"	" 2 6	" 2 6	
Carriage					
e cart to carry	750 lbs	Day	" 8 "	" "	
ullock to carry	180 lbs	"	" 4 "	" "	
d for 1st Mile		Tow	" 3 9	" "	
for each succeeding mile		"	" 3 9	" "	
Rates of materials					
d including carriage to site					
Bricks and Tiles.					
Bricks ground moulded 9"×4½"×2½"		1000	3 "	3 "	
do do	8½"×4"×1¼	"	2 8 "	2 8 "	

Details	Per	Estimated	actuals	Remarks
(Bricks and Tiles continued)				
Native Bricks — 6"×4"×1"	1000	2 " "	— —	
Paving Bricks — 12"×12"×1¾	"	10 " "	— —	
Do — 8¾"×8¾"×2"	"	5 " "	— —	
Pillar Bricks quadrant chafed 2' diam	"	" " "	— —	
Do Do — 1¾ diam	"	" " "	— —	
Do Do — 1½ diam	"	3 " "	— —	
Terracing Bricks — 5"×3"×1"	"	2 " "	— —	
Flat Tiles for roofing — 6"×6"×½"	"	1 " "	" 14 "	
Pan Tiles, large	"	1 4 "	2 " "	owing to increase in cost of firewood.
Do common 1st quality	"	1 " "	1 2 8	
Do Do 2nd quality	"	" 14 "	" — —	
Stone				
Rough stone quarried and stacked	cyrd	" 8 "	" 8 "	
Stone, hammer dressed (roughly squared)	100 cft	" " "	" — —	
Stone squared and dressed to size	"	" " "	" — —	
Victoria cut into blocks	"	" " "	" — —	
Flooring stones — 12"×12"	100 stones	" " "	" — —	
Do — 9"×9"	"	" " "	" — —	
Stone slabs, rough split	100 cft	" " "	" — —	
Lime				
Lime stone broken small	cyrd	" " "	" — —	
Lime kunker unburnt	"	" " "	" — —	
Lime burnt and delivered	"	3 " "	3 " "	
Firewood cut and stacked	"	" " "	" — —	
Sand clean shafted on river bank	"	" " "	3 " "	3
Timber & roofing material				
Teak wood best scond Qty in log	cft	2 " "	" " "	
Do Do sawn into scantlings	"	" " "	" " "	
Do Do wrought and fitted	"	3 8 "	3 8 "	
Jungle wood in the rough	"	1 " "	1 " "	
Palmyrah tree — 18 ft long	each	" 12 "	" 12 "	No good

Details	Per	Estimated	actuals	Remarks
				14
Timber & roofing material (continued)				
Cocoanut tree — 18 ft long	each	" 8 "	" 8 "	No good
Palmyrah rafters, best hand block				
1st class — 14 ft long	100	175 " "	159 " "	
2nd class — 12 ft long	"	150 " "	150 " "	
3rd class — 10 ft long	"	100 " "	100 " "	
Palmyrah reapers	100	16 " "	16 " "	
Bamboo large — 20 ft long	each	" 6 "	" 6 "	
Bamboo 1st class — 12 ft long	100	25 " "	" — —	
2nd class — 7 ft long	"	1 12 "	" — —	
3rd class — ft long	"	" — —	" — —	
Bundles of thatch 5' girth	each	" — —	" — —	
Palmyrah leaves	100	" 4 "	" — —	
Cocoanut leaves	100	1 " "	" — —	
Iron				
European bar iron wrought	lbs	" — —	" — —	
Native iron Do	lbs	" — —	" — —	
Corrugated iron sheets — x —	each	" — —	" — —	
Do — x —	"	" — —	" — —	
Continuous iron — x —	R. ft	" — —	" — —	
European steel bar for gunpowder chisels	lbs	" — —	" — —	
Road material				
Hard granite stone, broken, small	cyrd	" 4 "	" 4 "	
Laterite gravel screened and stacked	"	" 26 "	" 26	
Broken bricks for under layer	"	" — —	" — —	
Rates of work.				
Foundations				
Excavating & filling in exclusive of baling Do	100 cft	" — —	" — —	
Concrete				
Sinking wells not less than 3½ ft internal diameter & 3 ft in depth	Foot Run	" — —	" — —	
Do from 3 to 6 feet in depth	"	" — —	" — —	
Do from 6 to 9 Do	"	" — —	" — —	
Do for 10 ft & Do	"	" — —	" — —	

Details	Per	Estimated	actual	Remarks
Foundations (continued)				
Sinking wells not less than 3½ ft internal diam: for 11½ feet	Feet work	"	"	
Do for 12½ feet	"	"	"	
Masonry works.				
Rubble set in mortar	100 cft	4 12 "	4 12 "	
Rubble in clay	"	2 " "	2 " "	
Rubble dry in revetments &c	"	1 9 "	1 9 "	
Roughstone large packed in approns of Irrigation works bridges &c	"	1 9 "	1 9 "	
Brick work.				
First class brick work with common moulded bricks set in mortar with close fitting joints upto 20 feet high	100 cft	12 8 "	10 15 "	
Do Do above 20 feet high	"	" " "	" " "	
Do Do in arches	"	13 " "	" "	
Honeycomb brickwork with best bricks plastered smooth	100 sft	6 " "	" "	
Do Do with tiles whitewashed	"	3 8 "	3 8 "	
Brickwork, burnt bricks in clay	100 cft	7 8 "	7 8 "	
Mud walls	"	1 " "	" "	
Flooring.				
Flooring with paving bricks laid on concrete and neatly pointed	100 sft	7 " "	" "	
Do with brick on edge 6" thick	"	6 " "	6 " "	
Do with concrete 4" thick	"	" " "	" "	
Do with asphalte ¼ inches thick laid on 4 inches of concrete	"	20 " "	" "	
Plastering.				
Plastering with lime plaster 1 coat	100 sft	1 5 "	1 5 "	
Do Do 2 coats rubbed smooth	"	2 " "	2 " "	
Do with best white chall lime 3 coats and polished &c	"	3 8 "	" "	
Pointing with best lime mortar	"	" " "	" "	
White and color washing	"	" 29 "	29	
Roofing.				
Best terraced roofing with brick on edge, 3 courses of flat tiles and 6 coats plaster exclusive of woodwork	100 sqr ft	15 " "	" "	
Best sloping terrace with flat and pan tiles covered with mortar and plastered smooth including Teak rafters	"	" " "	" "	

Details	Per	Estimated	actual	Remarks
Roofing (continued)				
Best sloping terrace with 3 courses of flat tiles and 6 coats plaster including Teak rafters	100 sqr ft	14 " "	" "	
Best tiled roofing with flat and pan tiles and chunam borders including Teak rafters	"	" " "	" "	
Do Do including best galvanized caples and rafters (complete) well tarred	"	18 " "	" "	
Common tiled roofing with pan tile laid on bamboo mats including woodwork complete	"	12 " "	" "	
Best thatch roofing 9 inches thick including do	"	8 " "	" "	
Common thatch roofing with grass or leaves including do	"	6 " "	" "	
Wood works.				
Best Teak wrought and placed in large beams	Cft	4 " "	4 " "	
Do Do in small beams & joists &c	"	3 8 "	3 " "	
Do wrought and fitted in trusses &c	"	4 " "	" "	
Jungle wood wrought and fitted	"	2 " "	2 " "	
Best teak wood panneled doors and windows complete including frames and fittings but not painted	Sft	" 14 "	14 " "	
Do Venetian Do Do	"	1 12 "	" "	
Do glazed Do Do	"	" 8 "	" "	
Do batten Do Do	"	" 12 "	" "	
Do Do windows and ventilators with ¾ inch iron bars 4 inches from centre to centre complete including Do Do	"	1 2 "	" "	
Iron works.				
Iron grated doors made with ¾ inch iron 4 inches from centre to centre with horizontal bars let into stone and well tarred	Sqr ft	1 10 "	" "	
Do Gratings fixed do do	"	" " "	" "	
European iron wrought	lbs	" " "	" "	
Native Do Do	lbs	" " "	" "	
Painting.				
White paint 1 coat	100 sft	" " "	" "	
Do Do 2 coats	"	" " "	" "	
Red paint 1 coat	"	" " "	" "	
Do Do 2 coats	"	" " "	" "	
Green paint 1 coat	"	" 14 "	" "	
Do Do 2 coats	"	" " "	" "	
	"	1 10 "	" "	

15

Details	Per	Estimated	actuals	Remarks
Pavibing (continued)				
Best wood oiling 1 coat	100 sft.	- - -	- - -	
Do Do 2 coats	"	" 12 -	" 12 -	
Do Do 3 coats	"	1 - -	- - -	
Yarning	-	- - -	- - -	
Earthwork.				
Excavating (exclusive of trimming slopes) 1½ yrd in depth and depositing on bank upto 2 yrds high with a lead of not more than 20 yards	cyrd	- 1 -	- 1 -	
Do Do Do in hard clay or shale	"	" 16	" 16	
Do Do Do in rocky ground	"	" 2 -	" 2 -	
Extra for every additional 20 yards lead	"	- - 3	" - 3	
Do for 2nd yrd in depth	"	- 1 -	- - -	
Do for every additional yard in depth	"	- 1 -	- - -	
Do Do in height	"	- 1 -	- - -	
Puddle wall	"	" 4 -	- - -	
Trimming and dressing slopes	100 syrd	" 84	- - -	
Turfing slopes including watering for 3 months	"	5 - -	- - -	
Quarrying.				
Quarrying and stacking when the stone can be removed with crow bar	cyrds	" 4 -	- - -	
Do Do when blasting is required	"	1 - -	1 - -	
Drilling holes inches in diam	R. ft.	- - -	- - -	
Training Rivers.				
Planting nanul grass in bed of river when material is close at hand	100 sq. yds	1 8 -	- - -	
Planting wild cane and willows including watering for 3 months	"	5 - -	- - -	
Nanul grass revetment	"	2 8 -	- - -	
Do foundation rollers	cyrd	- - -	- - -	
Bamboo thorn fence 6 inches thick	100 sq yds	- - -	- - -	
Large cocoanut tree horse 6 yards high with tail piece complete	Each	- - -	- - -	
Do Do 5 yrds Do Do	"	- - -	- - -	
Do Do 4 yrds	"	- - -	- - -	
Small Do to be placed under the above	"	- - -	- - -	

Details	Per	Estimated	actuals	Remarks
Training rivers (continued).				
Large jungle tree horse 5 yards high with tail piece complete	each	- - -	- - -	
Do Do 4 yards Do Do	"	- - -	- - -	
Small Do to be placed under the above	"	- - -	- - -	
Bamboo horses complete	-	- - -	- - -	

South Arcot
Tindivanum Range Office
Tindivanum
9th December 1873

A. Lapetain
Assistant Engineer

Officiating District Engineer
South Arcot

P. W. D. Vindachellum Range
South Arcot District.

Schedule of Rates for the Building Date for the half year ending 31st March 1873.

P. W. D. Vindachellum RANGE.
South Arcot DISTRICT.

Vindachellum Taluq
Hiramalloor Project

Schedule of Rates for the half-year ending 31st March 1873.

Details.	Per	Rate. Estimated.	Rate. Actual.	Remarks.
Rates of Labor.				
Skilled Workmen.				
Maistry	Month	25-0-0	20-0-0	
Stone-cutters	Day	0 12 0	0 10 0	
	,,	0 10 0	0 8 0	
Bricklayers	,,	0 9 0	0 8 0	
	,,	0 8 0	0 7 0	
Carpenters	,,	0 10 0	0 8 0	
	,,	0 8 0	0 7 0	
Smiths	,,	0 9 0	0 8 0	
	,,	0 8 0	0 7 0	
Painters	,,	0	0	
	,,	0	0	
Laborers.				
Head cooly or gangman	Day	0 4 0	0 3 6	
Cooly-man	,,	0 2 3	0 2 0	
Cooly-woman	,,	0 1 6	0 1 6	
Cooly-boy	,,	0 1 3	0 1 3	
Well sinker	,,	0 5 0	0 5 0	
Picottaman	,,	0 5 0	0 5 0	
Quarryman	.....	0 3 0	0 3 0	
Carriage.				
Bullock cart to carry ... ... 1000 lbs.	Day	0 12 0	0 10 0	
Pack bullock to carry ... ... lbs.	,,			
By road for 1st mile	½ Ton	0 1 6	0 1 3	
By do. for each succeeding mile	,,	0 1 6	0 1 3	
By water per mile	,,			
By Railway per mile for				
1st class goods	,,			
2nd class goods	,,			
Special class	,,			

(The description of P. W. material coming under each class of goods to be obtained from the Railway Companies, and noted.

Details.	Per	Rate. Estimated.	Rate. Actual.	Remarks.
RATES OF MATERIALS.				
NOT INCLUDING CARRIAGE TO SITE.				
Bricks and Tiles.				
Stock bricks, table moulded ... 8 ¾″ × 4¼″ × 2½″	1,000			
Do. do. ... ... 9 ″ × 4½″ × 2¼″	,,			
Do. do. ... ... × ×	,,			
Stock bricks, ground moulded 9 ″ × 4½″ × 2¼″	,,	3-0-0	2-4-0	
Do. do. ... ... × ×	,,			
Do. do. ... ... × ×	,,			
Native bricks ... ... 6 ″ × 4 ″ × 1 ″	,,	2-4-0	2-0-0	
Do. do. ... ... × ×	,,			
Do. do. ... ... × ×	,,			
Paving bricks... ... ... 12 ″ × 12 ″ × 1¾″	,,			
Do. ... ... 8¾″ × 8¾″ × 2 ″	,,			
Do. ... ... × ×	,,			
Penang paving tiles ... ... × ×	,,			
Pillar bricks quadrant shaped 2 ′ diam.	,,			
Do. do. 1¾′ diam.	,,			
Do. do. 1½′ diam.	,,			
Terracing bricks ... ... 5 ″ × 3 ″ × 1 ′	,,			
Do. do. ... ... × ×	,,			
Flat tiles for roofing ... ... 6 ″ × 6 ″ × ½″	,,			
Do. do. ... ... × ×	,,			
Pantiles, large	,,			
Do. common, 1st quality	,,	2-0-0	1-12-0	
Do. do. 2nd do.	,,	1-12-0	1-10-0	
Pot tiles, native	,,			
Stone.				
Rough stone quarried and stacked	Cubic yard.	1-12-0		
Stone, hammer dressed (roughly squared)	100 C. feet.	25-0-0		
Stone, squared and dressed to size	,,			
Laterite cut into blocks	,,			
Flooring stones ... ... 12″ × 12″	100 Stones.			
Do. do. ... ... 9″ × 9″	,,			
Stone slabs, rough split	100 C. Ft.			
.....	,,			
.....	,,			

Details.	Per.	Rate. Estimated.	Rate. Actual.	Remarks.
				17
Lime.				
Lime stone, broken, small	Cubic yard.	0-5-0		
Lime, kunker, unburnt	12 ft. sup.	3-8-0	3-0-0	
Lime, burnt and delivered	,,	0-2-0	0-1-3	
Firewood, cut and stacked	,,	0-2-0	0-1-3	
Sand, clean, sharp, on river bank	,,			
Timber and Roofing Material.				
Teak-wood, best, sound, &c., in log	Cubic feet.	1-12-0	1-8-0	
Do. do. sawn into scantlings	,,	2-8-0	2-4-0	
Do. do. wrought and fitted	,,	4-8-0	4-0-0	
Jungle-wood in the rough	,,	1-0-0	0-12-0	
Palmyrah tree ... ... 30 Ft. long	Each.	1-8-0		
Cocoanut tree ... ... 30 Ft. long	,,	2-0-0		
Palmyrah rafters, best hard block—				
1st class ... ... 14 Ft. long	100	100-00		
2nd class ... ... 12 Ft. long	,,	75-0-0		
3rd class ... ... 10 Ft. long	,,	50-0-0		
Palmyrah reepers	100 R. Ft.	18-0-0		
Bamboo, large ... ... 12 Ft. long	Each.	4-2-0		
Bamboos-1st class ... ... 20 Ft. long	100	18-0-0		
2nd class ... ... 12 Ft. long	,,	12-0-0		
3rd class ... ... 8 Ft. long	,,	10-0-0		
Bundles of thatch 5′ girth	Each.	0-3-0		
Palmyrah leaves	100	0-6-0		
Cocoanut leaves	100	0-12-0		
Iron.				
Europe bar iron, wrought	lb.	0-10-0		
Native iron do.	lb.	0-8-0		
Corrugated iron sheets... ... ... ×	Each.			
Do. do. ... ... ×	,,			
Continuous sheet iron ... ... ×	R. Ft.			
Europe steel bar for jumpers and chisels	lb.	1-0-0		
Road Material.				
Hard granite stone, broken, small	Cubic yard.	0-4-0		
Laterite gravel screened and stacked...	,,	0-3-0	0-2-6	
Broken brick for under layer	,,	0-12-0		

Details.	Per.	Rate. Estimated.	Rate. Actual.	Remarks.
Rates of Work.				
Foundations.				
Excavating and filling in exclusive of baling, &c., ...	100 C. Ft.	As per rates for earth-work.		
Concrete	,,	10-0-0		
Sinking wells not less than 3½ feet internal diam. up to 3 feet in depth	Foot of well.	16-0-0		Size and description of wells.
Do. from 3 to 6 feet in depth	,,	15-0-0		
Do. from 6 to 9 do.	,,			
Do. for 10th foot	,,			
Do. for 11th foot	,,			
Do. for 12th foot	,,			
Masonry Work.				
Ashlar, plane (dressed stone) set in mortar	100 C. Ft.			
Do. Voussoirs for arches in do.	,,			
Coursed rubble in do.	,,			
Rubble in do.	,,			
Rubble in clay	,,			
Rubble, dry, in revetment, &c.	,,			
Rough stone, large, packed in aprons of Irrigation works, bridges, &c., ...	,,			
Brick Work.				
First class brickwork with table moulded bricks set in mortar	100 C. Ft.			
First class brickwork with common moulded bricks set in mortar with close fitting joints up to 20 feet high	,,	15-10-0	12-8-0	
Do. do. above 20 feet high	,,	18-12-0		
Do. do. in arches	,,	25-4-0	20-0-0	
Do. do. in columns including bonding stones. ...	,,			
Do. do. in cornices, mouldings and other ornamental work requiring much labor	,,			
Do. do. in open parapets and balustrades	,,			
Honey comb brickwork with best bricks plastered smooth.	,,			
Do. do. with tiles whitewashed	,,			
Brickwork, burnt bricks in clay	,,			
Mud walls...	,,			
Flooring.				
Flooring with granite paving stones laid on concrete and neetly pointed	100 Sq. Ft.			
Do. with laterite do. do.	,,			

Details.	Per	Rate. Estimated.	Rate. Actual.	Remarks.
Flooring.—(Continued.)				19
Flooring with paving bricks laid on concrete and neatly pointed	100 Sq. Ft.			
Do. with Penang tiles do. do.	,,			
Do. with Brick on edge 6″ thick	,,			
Do. with concrete 4″ thick	,,			
Do. with asphalte ½ inches thick laid on 4 inches of concrete	,,			
Do. do. ½ inch do. do.	,,			
Do. do. ¾ inch do. do.	,,			
Plastering.				
Plastering with lime plaster 1 coat	100 Sq. Ft.	2-4-0	1-12-0	
Do. do. 2 coats rubbed smooth	,,	2-8-0	2-6-0	
Do. with best white shell lime 3 coats and polished ...	,,	3-6-0	2-14-0	
Pointing with best cine mortar	,,			
White and color washing	,,	0-4-0	0-3-0	
Roofing.				
Best terraced roofing with brick on edge, three courses of flat tiles and three coats plaster exclusive of wood-work	100 Sq. Ft.	25-0-0		
Best sloping terrace with flat and pantile covered with mortar and plastered smooth including teak reepers.	,,			
Do. with 3 courses flat tiles and three coats plaster including do.	,,			
Best tiled roofing with flat and pantiles and chunam borders including teak reepers	,,			
Do. do. including best palmyrah couples and reepers (complete) well tarred	,,			
Common tiled roofing with pantile laid on bamboo mats including wood-work complete	,,			
Best thatch roofing 9 inches thick including do. ...	,,			
Common thatch roofing with grass or leaves including do.	,,			
Corrugated iron roofing complete	,,			
Continuous sheet iron roofing complete...	,,			
Wood Work.				
Best teakwood wrought and placed in large beams ...	C. Ft.	4-0-0		
Do. do. in small beams and joists, etc.	,,	3-8-0		
Do. Wrought and fitted in trusses, etc.	,,	3-12-0		
Do. do. in barrack and office furniture	,,	4-8-0		
Jungle-wood wrought and fitted	,,	2-4-0		

Details.	Per	Rate. Estimated.	Rate. Actual.	Remarks.
Wood Work.—(Cantinued.)				
Best teak wood pannel doors and windows complete including frames and fittings but not painted... ...	Sq. Ft.	" 14 4		
Do. venetian do. do. do.	,,	1-4-4		
Do. glazed do. do. do.	,,			
Do. batten do. do. do.	,,	4 14-4		
Do. do. Windows and ventilators with ¾ inch iron bars 4 inches from centre to centre complete including do. do.	,,	1-2-4		
Iron Work.				
Iron grated doors made with ¾ inch iron 4 inches from centre to centre with horizontal bars let into stone and well tarred	Sq. Ft.			
Do. gratings fixed do. do.	,,			
Europe iron, wrought	lb.			
Native do. do.	lb.			
Painting.				
Carson's paint 1 coat	100 Sq. Ft.			
Do. do. 2 coats...	,,			
Do. do. 3 coats...	,,			
White paint 1 coat	,,	2-8-4		
Do. do. 2 coats...	,,	3-4-4		
Red paint 1 coat	,,	2-12-4		
Do. do. 2 coats...	,,	3-4-4		
Green do. 1 coat	,,	3-4-4		
Do. do. 2 coats...	,,	4-4-4		
Best wood oiling 1 coat	,,	1-8-4		
Do. do. 2 coats...	,,	1-12-4		
Do. do. 3 coats...	,,	2-4-4		
Tarring	,,			
Earth Work.				
Excavating (exclusive of trimming slopes) 1st yard in depth and depositing on bank up to 2 yards high with a lead of not more than 20 yards in light soil...	C. Yd.	" 1-6	" 1-4	
Do. do. do. in hard clay or shale	,,	4-2-4		
Do. do. do. in rocky ground	,,	" 3-4		
Extra for every additional 20 yards lead	,,			
Do. for 2nd yard in depth	,,	" 2-4		
Do. for every additional yard in depth	,,	" 2-6		
Do. do. in height	,,	0-3-4		

Details.	Per	Rate. Estimated.	Rate. Actual.	Remarks.
Earth Work.—(Continued.)				
Puddle wall	C. Yd.			
Trimming and dressing slopes	100 Sq. Yds.	1-8-4		
Turfing slopes including watering for 3 months ...	,,	6-4-4		
Quarrying.				
Quarrying and stacking when the stone can be removed with crowbar	C. Yd.			
Do. do. when blasting is required	,,			
Drilling holes inches in diam.	R. Ft.			
Do. do. inches in diam.	,,			
Training Rivers.				
Planting "nanul" grass in bed of river when material is close at hand	100 Sq. Yds.	3-2-4		
Planting wild cane and willows including watering for 3 months	,,			
Nanul grass revetment	,,	6-4-4		
Do. foundation rollers	C. Yd.	4-5-4		
Bamboo thorn fence 6 inch thick, complete	100 Sq. Yds.	4-4-4		
Large cocoanut tree horse 6 yards high with tail piece complete	each.	2-4-4		
Do. do. 5 yards do. do.	,,	2-4-4		
Do. do. 4 yards	,,	1-8-4		
Small do. to be placed under the above	,,	1-4-4		
Large Jungle tree horse 5 yards high with tail piece complete	,,	4-4-4		
Do. do. 4 yards do. do.	,,	3-4-4		
Small do. to be placed under the above	,,	2-4-4		
Bamboo horses complete	,,	1-12-4		

STATION, Viridachellum

Range Officer,

Date. 13th December 1873.

District Engineer.

No. 2 Range. South Great District.

BUILDING DATA.

TO ACCOMPANY

SCHEDULE of RATES for Half-year ending 31 March 1873. 21

Description of Work.	Materials and Labor.			Amount.		
	Quantity or Number.	Description.	Rate.	Rs.	A.	P.
		For Brick in Chunam				
	1056	Bricks per 1000	2-4-0	3	0	7
	1056	Do Carrying for 1000	0-6-0	0	6	4
	5	Carak Chunam	0-4-11	1	8	7
	10	Do Sand	0-0-6	0	5	6
	5	Coolies for Pounding Chunam	0-1-6	0	7	6
	½	Do Do	0-2-0	0	1	0
	2	Bricklayer	0-7-6	0	15	0
	1	Coolie	0-2-6	0	2	0
	6	Coolies	0-1-6	0	9	0
		Cost of 66 feet		7	7	0
		of 1 foot		0	1	9
		For Plastering 100 Sqr. feet				
	2½	Bricklayer at	0-8-0	1	4	0
	½	Men at	0-2-0	0	1	0
		Carried Over			1	5

Measured by

Description of Work.	Materials and Labor.			Amount.		
	Quantity or Number	Description.	Rate.	Rs.	A.	P.
Mauna Head Guard		Brought Over		1	5	4
	3	Small Corbie at	1-6	4	4	6
	2½	Sarad Chunam at	7	1	3	4½
	5	Do Sand at	0-6	0	2	6
		Total for Sgt		3	0	0

Description of Work.	Materials and Labor.			Amount.		
	Quantity or Number.	Description.	Rate.	Rs.	A.	P.

Station. Vizagapatam
Date. 13th December 1873

Range Officer. 1st Class

District Engineer

No. 3 or Vindhachellam Range,
South Arcot District.
Manathoor Project

SCHEDULE OF RATES
AND
BUILDING DATA
FOR THE
HALF-YEAR ENDING.

31st March 1873.

No 2860

Pro Madras. Forest

Revd the following

from the Secty Govt Rev (H.E. Dept) No 999 dy 14 June/73

do do No 594 dy 23. Oct/73

Ordered that

the following letter

be sent.

(A.L. No 87)

No 2861

To the Secy: Govt of India
P. W. D.

Sir = With reference to your letter No
999. A.J. dated 9th December 1872
and subsequent reminders, I am
directed to submit for the information
of the Govt of India, the Schedule of
rates prevailing throughout the Madras
Presidency for the half year ending
31st Decr 1872 — Owing to the want
of uniformity in the returns received
from the Newly organized Districts
this Schedule is not so complete
as might be desired, and I am to
inform you that arrangements
have been made by which a
more comprehensive return
accompanied by Estimates
& Reports shall be submitted for
the future =

I have &c

5th Novr 1873.

Duplicate S.C. & 30 Copies
of the Schedule — 27/11/73

No: 379

To Sec: Govt of India.
P. W. D.

25

Sir. In forwarding the Schedules of Rates prevailing throughout the Madras Presidency for the half Year ending 30th Sept. 1872 - called for in your Letters Marginally noted, I am directed to express regret that the information received from the diff: Districts is not so complete as could be desired, owing to the recent reorganization of the P.W. Establishments - And I am directed to state for the information of the Govt of India that the necessary steps are being taken to have the Schedules for the half Years ending 31st March last submitted in a Complete & Uniform form -

Yours

28th July 73. PM

Forwarding Schedules of Fields to the Govt of India

The Secretary

No. 3580 + 587

Govt. of {1873} Madras.

PUBLIC WORKS.

To The Secretary to the Govt of India

Dated

Recd. Encl.

G. O., 26th Nov. 1873 No. 2860-2861.

Nos. 377 & 379 to 388

Schedules of rates.

Forwarding orders on letters from the Govt of India requesting the early submission of the Schedules of rates.

Submitting with explanations Schedules of rates for the half year ending 31st Dec. 1872