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(1) பக்கங்களின் எண்ணிக்கை 38

(2) புதுக்கித் திருப்பிய நாள் 10-90

(3) ஆதாரங்குறிப்பவர் சுருக்கொப்பம்

தமிழ்நாடு ஆவணக் காப்பகம்.

தமிழ்நாடு அரசு

PWD துறை

(53)

அரசாணை எண்.
மு. கோப்புத் தாள் எண். 512

அச்சகம்
பலவகை

நாள் : 17-2-1892 198 .

மடிக்கவோ கண்டபடி கையாளவோ கூடாது

15 Sheets

ஆவண. கா-1—18,006—15-6-87.

PUBLIC WORKS DEPARTMENT, BURMA.

COMPARATIVE COST OF CERTAIN SELECTED BUILDINGS.

Abbreviations.—P denotes puckā; C denotes concrete; Pl., planked; C. I., 22°, Corrugated iron 22 B. W. G.; Sh. shingled; P. Sh., pent shingled.

Division.	Locality.	Name of building.	Single or double storied.	Description and height of walls, &c.										Cost.	Area.	Rate per superficial foot.
				Foundation.		Plinth.		Walls (to top of wall plate).			Roof.		Floor.			
				Ft.	In.	Ft.	In.	Ft.	In.		Ft.	In.		Rs.		Rs. A. P.
Rangoon.	Prome road ...	Military police barracks ...	Single ...	Teak posts	3 o	No plinth. Height of floor above ground.	5 6	Teak plank ...	7 o	Tile ...	Teak plank ...	1 2	5 2	5,157	162 × 24	1 5 2
	do ...	Military police kitchen ...	do ...	do ...	3 o	do ...	1 o	Corrugated iron ...	7 o	Corrugated iron	Mud ...	728	60 × 9	1 5 6		
	Cantonment ...	Cam p-room in Government house.	do ...	P ...	3 o	P ...	9 o	ditto	12 o	do ...	Concrete cement plastered.	1,501	20 × 15	3 o o		
	do ...	Cook-house for servants in Government house.	do ...	Teak posts	3 o	No plinth. Height of floor above ground.	6 o	ditto	6 o	do ...	Mud ...	2,288	108 × 8	2 10 4		
	do ...	Wash-house in Government house.	do ...	P ...	3 o	P ...	9 o	Teak plank ...	11 o	do ...	Asphalte and brick-on-edge.	1,674	30 × 20	2 12 7		
	Sule Pagoda road.	Record-room, P. W. D. Secretariat.	do ...	P ...	3 o	P ...	9 o	Corrugated iron ...	10 o	do ...	Concrete cement plastered.	2,631	77 × 10	3 6 7		
	Botataung ...	Assistant Port Officer's quarters	Double ...	Concrete brick masonry.	{6 6 / 2 o}	P ...	9 o	Ground floor. First floor iron posts with timber frame and ½ brick nogging.	11 8 / 9 6	P. T. (Taylor's tyle).	Ground floor concrete and asphalte; first floor plank teak.	7,131	1,625	4 6 3		
	Kabin ...	Police tiana at Kabin ...	Single ...	Pyingado posts.	4 o	No plinth. Height of floor above ground.	7 6	Teak 2-inch weather boarding.	8 o	P. Sp. Sh. ...	Plank 1" teak	2,200	900	2 7 1		

COMPARATIVE COST OF CERTAIN SELECTED BUILDINGS—continued.

Abbreviations.—P denotes pucka ; C denotes concrete ; Pl. planked ; C. I. 22°, Corrugated iron 22 B. W. G. ; Sh. shingled ; P Sh. pent shingled.

Division.	Locality.	Name of building.	Description and height of walls, &c.									Cost.	Area.	Rate per superficial foot.
			Single or double storied.	Foundation.		Plinth.		Walls (to top of wall plate).		Roof.	Floor.			
					Ft. In.		Ft. In.		Ft. In.			Rs.		Rs. A. P.
Henzada.	Ma-ubin ...	Workshed No. 1, Ma-ubin Jail	Single	C ... 1 0 P ... 2 0		*Nil* ...	...	Palisading ...	10 6	Corrugated iron 22°.	Rammed broken bricks.	4,435	2,860	1 8 10
	do ...	do No. 2, do	do	C ... 1 0 P ... 2 0		*Nil* ...	...	Palisading and 50 running feet plank.	10 6	ditto ...	Rammed broken bricks and C and asphalte.	6,270	3,300	1 14 5
	do ...	Blacksmith's shop, do	do	C ... 1 0 P ... 2 0		*Nil* ...	...	Palisading ...	9 0	ditto ...	Rammed broken bricks.	145	108	1 5 6
	do ...	Granary, do	do	C ... 0 6 P ... 2 0		P ...	1 6	P ...	13 6	ditto ...	Concrete and asphalte.	7,000	1,930	3 10 0
Arakan.	Sandoway ...	Police Magazine	Single ...	C ...	2 3	C ... 0 9 P ... 2 6		P ...	6 3 to spring.	P arched and cement plaster	Concrete and asphalte.	805	192·5 s.ft.	4 2 10
	Myebôn ...	Myoôk's Court-house ...	do ...	Pyingado posts.	3 0	*Nil*. Height of floor above ground.	8 0	Pl. ...	15 0	Sh. ...	Pl. ...	4,400	1,654	2 10 6
	Chedùba ...	Combined Myoôk's Court and thana.	do ...	do ...	3 0	ditto ...	8 6	Pl. ...	12 6	Sh. ...	Pl. ...	7,308	2,520	2 14 4
Bassein.	Yegyi ...	Thana at Yegyi	Single ; raised on piles ; lower floor enclosed by wall for defence.	Pyingado posts.	3 0	No plinth ; floor above ground.	9 6	Pyingado plank ...	16 0	Teak shingles	Teakwood ...	4,109	1,600	2 9 1

COMPARATIVE COST OF CERTAIN SELECTED BUILDINGS—concluded.

Abbreviations.—P denotes pucka; C denotes concrete; Pl. planked; C. I., 22° Corrugated iron 22 B. W. G.; Sh. shingled; P. Sh., pent shingled.

Division.	Locality.	Name of building.	Description and height of walls, &c.									Cost.	Area.	Rate per superficial foot.
			Single or double storied.	Foundation.	Ft. In.	Plinth.	Ft. In.	Wall (to top of wall plate).	Ft. In.	Roof.	Floor.	Rs.		Rs. A. P.
Bassein—concld.	Ngathaing-gyaung.	Assistant Commissioner's Court-house.	Single; raised on piles; lower floor only partly used.	Pyingado posts.	3 0	No plinth; floor above ground.	10 0	Teak plank ...	15 0	Teak shingles	Teakwood ...	9,616	2,691	3 9 2
Amherst.	Kawkareik ...	Myoôk's Court-house ...	Single ...	Timber posts	4 0	No plinth; height of floor from ground.	8 0	Pl. ...	15 0	P Sh. ...	Pl. ...	4,780	1,600	2 15 9
	Theinzeik ...	Bazaar	do ...	do	...	...	...	Corrugated iron 22°	...	Corrugated iron 22°	Asphalte ...	8,804	6,400	1 6 0
	Moulmein ...	Godown, Mission street ...	do ...	C and P wells	4 0 to 6 0	P ...	8 0 to 13 6	P ...	...	Corrugated iron 22° on 14 iron trusses.	Asphalte on concrete.	15,507	4,464	3 7 6
	Yebyu ...	Police thana	do ...	Posts ...	...	...	9 6	Pl. ...	16 0	P. Sh. ...	Pl. ...	2,775	1,296	2 2 3
	Thayetchaung	Myoôk's Court-house ...	do ...	do ...	4 0	...	8 0	Pl. ...	15 0	P. Sh. ...	Pl. ...	4,549	1,600	2 13 8

G. B. C. P. O.—No. 624, P. W. S., 4-2-92—220.

PUBLIC WORKS DEPARTMENT, BURMA.

MEMORANDUM OF CONSTRUCTION AND COST OF BRIDGES EXCEEDING 50 FEET IN LENGTH IN THE FIRST CIRCLE.

Executive divisions.	Name of bridge or nulla and situation.	Date of completion.	Description of bridge.	Kind and depth of foundation.	Number and size of spans.	Width of road-way between parapets or railings.	Height of road-way above foundations or river bed.	Total length of bridge.	Total cost.	Cost per 100 feet of length.	Remarks.
									Rs.	Rs. A. P.	
Rangoon ...	Tawlatay road, 3rd mile	March 1891	Pyingado (square) girders, bolsters joists.	Log shoe and 9 feet in depth.	Two 10 feet span and three 15 feet span.	10 feet 6 inches.	13 feet ...	75 feet ...	1,648	2,198 0 0	
Henzada	Pyinmagôn over Natmaw chaung.	July 1891...	Pyingado piles, cross heads, bolsters beams, 3-inches pyingado planking.	Piles driven 15 feet into bed.	Eleven spans of 25 feet and one of 20 feet.	10 feet 8 inches between railings.	23 feet in centre of bridge.	306 feet ...	9,807	3,205 0 0	
	Thebyu chaung ...	March 1890	Pyingado piles, cross heads, bolsters beams, 3-inches pyingado planking.	Piles driven 8 feet into bed.	Two of 23 feet and two of 20 feet span.	10 feet 8 inches between railings.	Not known ...	86 feet ...	2,533	2,945 0 0	
	Chingôn chaung ...	July 1891...	Pyingado piles, cross heads, bolsters beams, 3-inches pyingado planking.	Piles driven 8 feet into bed.	One of 30 feet and two of 11 feet span.	10 feet 8 inches between railings.	13 feet 9 inches in centre of bridge.	53 feet ...	593	1,119 0 0	
	Ouk-kanyingoo ...	July 1891...	Pyingado piles, cross heads, bolsters beams, 3-inches pyingado planking.*	Piles driven 10 feet into bed.	Four of 20 feet span.	10 feet 8 inches between railings.	8 feet 9 inches in centre of bridge.	86 feet ...	1,442	1,677 0 0	
	Acha ...	May 1891...	Abutments pyingado trestles, piers iron screw piles, cross heads 9 inches × 9 inches, 2 centre beams 10 inches × 6 inches.	Piles driven 10 feet into bed.	One span of 28 feet and two of 20 feet.	10 feet ...	15 feet ...	75 feet ...	2,943	3,924 0 0	

MEMORANDUM OF CONSTRUCTION AND COST OF BRIDGES EXCEEDING 50 FEET IN LENGTH IN THE FIRST CIRCLE—*continued*.

Executive divisions.	Name of bridge or nulla and situation.	Date of completion.	Description of bridge.	Kind and depth of foundation.	Number and size of spans.	Width of road-way between parapets or railings.	Height of road-way above foundations or river-bed.	Total length of bridge.	Total cost.	Cost per 100 feet of length.	Remarks.
									Rs.	Rs. A P.	
Arakan	Sandoway-Kinmaw road, 5th mile, No. 15.	1890-91 ...	Four pairs of iron piles and three pairs of timber piles carry cross beams, 12-inch diameter, over which come 12-inch diameter wooden corbels, 10 feet long, which on turn carry four lines of 12-inches diameter longitudinal beams supporting 3-inch thick road-way planking.	4 inches W. I. piles screwed 15 feet into ground, shore piles of wood driven 10 feet into ground. Piles braced diagonally and horizontally and two centre piers protected by iron fender piles.	Five of 30 feet and one of 10 feet.	9 feet ...	23 feet ...	160 feet ...	5,780	3,612 8 0	
	Myohaung-Mahamuni road, 7th mile, No. 6.	1890-91 ...	Single iron piled foot bridge. Two centre piers composed each of one W. I. pile, 4-inches diameter, and two shore piers of one wooden pile each. Piles carried a rolled iron, cross head, stiffened by angle iron, raking struts. The cross heads carry two longitudinal 12-inches diameter wooden girders, which latter support 3-inches thick road-way planking.	4½ inches W. I. piles screwed 12 feet into ground for two centre piers, shore piers are of 12-inches diameter wooden piles let 10 feet into ground.	Three of 20 feet.	4 feet ...	15 feet ...	60 feet ...	1,560	2,600 0 0	
	Myohaung-Mahamuni road, 6th mile, No. 3.	1890-91 ...	Single wooden piled foot bridge. All the piers composed each of one 12-inches diameter wooden pile, carrying a wooden cross head, stiffened by raking wooden struts. The cross heads carry two 12-inches diameter longitudinal girders, which in turn support the 3-inches road-way planking.	Each pier is of a single 12-inches diameter wooden pile driven 10 feet into the ground.	Four of 20 feet	4 feet ...	12 feet ...	80 feet ...	1,017	1,271 4 0	
Bassein ...	Athôke ...	.....	Timber	Timber piles ...	Nineteen of 15 feet.	8 feet ...	21 feet ...	285 feet ...	8,500	3,000 0 0	

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MEMORANDUM OF CONSTRUCTION AND COST OF BRIDGES EXCEEDING 50 FEET IN LENGTH IN THE FIRST CIRCLE—*concluded.*

Executive divisions.	Name of bridge or nulla and situation.	Date of completion.	Description of bridge.	Kind and depth of foundation.	Number and size of spans.	Width of road-way between parapets or railings.	Height of road-way above foundations or river bed.	Total length of bridge.	Total cost.	Cost per 100 feet of length.	Remarks.
									Rs.	Rs. A. P.	
Amherst	Ootoo choung bridge, 13th mile, Tavoy-Thayet choung road.	1891 ...	Brickwork abutments three 5 inches diameter iron screw pile piers. The road-way is carried on a pair of 5-inches diameter piles screwed into bed of stream to a depth varying from 12 feet to 16 feet. These piles are strengthened with a pair of stay piles being tied to them with one horizontal and one inclined angle iron tie. The main piles are braced together diagonally by angle irons 2 inches × 2 inches × ¼ inch.	South abutment rests on concrete foundations 2 feet deep, north abutment on two square brickwork well-sunk about 4 feet into the alluvial soil. The bottom of both foundations are on a level with bed of stream which has been diverted. The piles are screwed into a gravel soil which was found to exist from 12 feet to 16 feet below bed of stream.	Four of 25 feet	10 feet ...	15 feet ...	106 feet ...	10,100	9,528 0 0	
	Kazaik choung bridge, 15th mile, Tavoy-Thayet chaung road.	1891 ...	Brickwork abutments three 5 inches diameter iron screw pile piers. The road-way is carried on a pair of 5-inches diameter piles screwed into bed of stream to a depth varying from 12 feet to 16 feet. These piles are strengthened with a pair of stay piles being tied to them with one horizontal and one inclined angle iron tie. The main piles are braced together diagonally by angle irons 2 inches × 2 inches × ¼ inch.	The abutments are of brickwork resting on concrete 2 feet deep which is set on a pile bed. The piles are of pyingado, 8 inches square, driven about 1 foot 6 inches apart, centre to centre, and about 15 feet into the sub-soil. The top of these foundation piles is on a level with the bed of stream. The piers are the same as in the Ootoo choung bridge.	Two of 20 feet and two of 25 feet.	10 feet ...	20 feet 9 inches.	96 feet ...	12,200	12,708 0 0	

G. B. C P. O.—No. 624, P. W. S., 5-2-92—220.

PUBLIC WORKS DEPARTMENT, BURMA.

COMPARATIVE COST OF CERTAIN SELECTED BUILDINGS.

Abbreviations.—P denotes pucka; K P, kutcha pucka; K, kutcha; F M, flat mud; T, terraced; P L, planked; P T, pent tiled; P S, pent slated; P Sh., pent shingled; P Sp., pent split shingled; R, rubble; D S, dry stone; C, concrete; B F, brick flat; Fl., flagged; Dhy., dhogyi, *i.e.*, timber frame work filled in with mud and stone masonry; C I, corrugated iron; In., inner; O, outer; Up., upper; Gr., ground.

Division.	Locality.	Name of building.	Description and height of walls, &c.								Cost.	Area.	Rate per superficial foot.
			Single or double-storied.	Foundation.	Ft. In.	Plinth.	Ft. In.	Walls (to top of wall-plate).	Ft. In.	Roof. / Floor.			
Tharrawaddy.	.....	.....	.....	.....	...	.....	...	.....	...	..... /	Rs. ...	.....	Rs. A. P. .....
Thayetmyo.	Thayetmyo Fort.	Military prison, containing 36 cells and quarters for 4 warders.	Single ...	Concrete and brickwork.	1 0 / 2 0	Brickwork	2 0	Brick wall ...	22 0	Teakwood / Shingle — 1" teak planking on 6" × 3" joists.	57,100 / 26,634 / 83,734	28,381 sq. ft.	3 0 0 per sq. ft.
Minbu.	.....	.....	.....	.....	...	.....	...	.....	...	..... /	...	.....	.....
Myingyan.	Pakôkku ...	Telegraph office ...	Single ...	Teak posts	3 0	Teak posts	5 0	Mat in teak frame ...	8 0	Corr. Iron 24° / P. L. ...	3,261	1,496 sq. ft.	2 3 0
	Do ...	Bazaar ...	Do ...	Do ...	4 0	.....	...	Corr. Iron 24° ...	13 0	Corr. Iron 24° / P. L. ...	19,898	14,080 sq. ft.	1 6 8
Chindwin.	Mônywa ...	Telegraph office ...	Double ...	Concrete ...	2½ 0	P. Brick work.	2 0	P. L. ...	21 0	Sh. / Lower floor stone paving and concrete, upper floor 1" teak.	8,274	1,640 sq. ft.	5 7 0

G. B. C. P. O.—No. 624. P. W. S., 4-2-92—220.

Memorandum of Construction and Cost of Bridges exceeding 50 feet in length in the second Circle, Burma, P. W. D.

Executive division.	Name of bridge or of river or nulla and situation.	Date of completion.	Description of bridge.	Kind and depth of foundation.	Number and size of spans.	Width of roadways between parapets or railways.	Height of roadway above foundation or river-bed.	Total length of bridge.	Total cost.	Cost per 100 running feet of length.	Remarks.
									Rs.	Rs.	
Tharrawaddy	.....	...	.....	.....	...	...	...	...	...	...	
Thayetmyo. ...	.....	...	.....	.....	...	...	...	...	...	...	
Minbu ...	.....	...	.....	.....	...	...	...	...	...	...	
Myingyan ...	.....	...	.....	.....	...	...	...	...	...	...	
Chindwin ...	Obadaung bridge ...	September 1890.	This bridge is in two parts about 350 yards distant from each other. The total length of one bridge is 418 feet and of the other 100 feet. The three central spans of the longer bridge, each 36 feet, consist of queen post trussers carrying cross girders on which 3-inch teak planking is fixed. The remaining spans consist of similar planks laid diagonally on longitudinal girders. The wood-work throughout is of teak. The abutments are formed of rammed earth, pitched with a layer of stone boulders 2 feet thick.	The two centre piers of the longer bridge rest on teak wood piles driven 10 feet under bed of creek; all the remaining piers are raking posts sunk 10 feet below natural ground tied at the foot and braced diagonally.	3 spans 36 feet, 19 spans 20 feet, 2 spans 15 feet.	10½ feet ...	23 feet ...	518 feet ...	20,753	4,006	Materials valued at Rs. 800 were lost during the flood of 1889.

G. B. C. P. O.—No. 624, P. W. S., 4-2-92—220.

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PUBLIC WORKS DEPARTMENT, BURMA.

COMPARATIVE COST OF CERTAIN SELECTED BUILDINGS.

Abbreviations.—P denotes-pucka; K P, kutcha pucka; K, kutcha; F M, flat mud; T, terraced; Pl, planked; P T, pent tiled; P S, pent slated; P Sh., pent shingled; P Sp Sh., pent split shingled; R, rubble: D S, dry stone; C, concrete; B F, brick flat; Fl., flagged; Dhj., dhajji, *i.e.*, timber frame work filled in with mud and stone masonry; C I, 22° corrugated iron 22 B W G.; In, inner; O, outer; Up, upper; Gn. ground.

Division.	Locality.	Name of building.	Description and height of walls, &c.								Roof.	Floor.	Cost.	Area.	Rate per superficial foot.
			Single or double stoned.	Foundation.	Ft. in.	Plinth.	Ft. in.	Walls (to top of wall plate).	Ft. in.						Rs. A. P.
Upper Chindwin.	Kindat	Post office	Double	C ... P ...	2 0 1 0	P.	3 0	Pl	18 0		P Sh	Fl and Pl	5,946	1,216	4 14 0
		Dâk bungalow	Single	Teak posts	3 0	Teak posts	14 0	Pl	8 6		P Sh	Pl	4,113	1,216	3 6 0
		Court-house	Double	C	2 0	P.	4 0	Pl	28 0		P Sh	Fl and Pl	35,307	7,626	4 10 0

G. B. C. P. O.—No. 624, P. W. S., 5-2-92—220.

PUBLIC WORKS DEPARTMENT, BURMA.

COMPARATIVE STATEMENT OF SELECTED BUILDINGS CONSTRUCTED IN THE THIRD CIRCLE OF SUPERINTENDENCE FOR THE YEAR ENDING 31ST MARCH 1891.

Division.	Locality.	Name of building.	Nature of building.										Cost.	Area.	Rate per superficial foot.
			Single or double storied.	Foundation.	Ft. In.	Plinth.	Ft. In.	Walls (to top of wall-plate).	Ft. In.	Roof.	Floor.		Rs.	S. ft.	Rs. A. P.
Mandalay.	Mandalay ...	District Court-house ...	Double ...	Concrete ...	...	Flat bedded limestone.	...	Lower floor flat bedded limestone, upper floor teak planking.	...	Shingle ...	Lower, concrete stone flagging in verandah; upper, concrete on rolled beams and brick arches.		89,614	17,960	4 6 9
	do ...	Post office	do ...	do ...	...	do ...	...	Teak planking, except strong-room of stone.	...	do ...	Lower, flagged; upper, planked.		14,424	3,888	3 11 6
	do ...	Police lock-up	do ...	do ...	...	Concrete ...	...	Palisade ...	...	Corr. iron ...	Lower, concrete; upper, planked.		3,285	2,883	1 2 2
	Sagaing ...	District Court-house ...	do ...	do ...	...	do ...	...	Planked ...	...	Shingle ...	Lower, concrete; upper, planked.		30,510	7,632	3 15 11
Shwebo.	Shwebo new Cantonment.	Two half-company barracks, No. 5.	do ...	P ...	3 6	K ...	0 9	Plank ...	10 0	do ...	Upper, 1" teak; ground floor, gravel.		31,655	10,080	3 2 2
	do ...	Two half-company barracks, No. 6.	do ...	P ...	3 6	K ...	0 9	do ...	10 0	do ...	do ...		31,655	10,080	3 2 2
	do ...	Two blocks of one unit quarters, No. 3.	do ...	P ...	3 0	P ...	2 0	do ...	8 6	do ...	Upper, 1" plank; ground floor, stone concrete.		9,385	1,536	6 1 8
	do ...	Two blocks of one unit quarters No 4.	do ...	P ...	3 0	P ...	2 0	do ...	8 6	do ...	do ...		9,385	1,536	6 1 8

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COMPARATIVE STATEMENT OF SELECTED BUILDINGS CONSTRUCTED IN THE THIRD CIRCLE OF SUPERINTENDENCE FOR THE YEAR ENDING 31st MARCH 1891—(continued).

Division.	Locality.	Name of building.	Nature of building.									Cost.	Area.	Rate per superficial foot.
			Single or double storied.	Foundation.	Plinth.	Walls (to top of wall-plate).		Roof.	Floor.					
					Ft. In.		Ft. In.		Ft. In.			Rs.	S. ft.	Rs. A. P.
Shwebo—(*continued*).	Shwebo new Cantonment—(*concluded*).	British Infantry hospital ...	Double ...	P ...	3 0	P ...	2 0	Plank ...	10 0	Shingle ...	Upper, 1″ plank; ground floor, asphalte concrete.	18,046	8,352	2 2 6
	do ...	British Infantry hospital for women.	do ...	P ...	3 0	K ...	2 0	do ...	17 9	do ...	Upper, 1″ plank; ground floor, stone flagging over concrete.	23,630	4,896	4 13 5
	do ...	Commissariat Sergeants' quarters.	do ...	P ...	3 0	P ...	2 0	do ...	8 6	do ...	Upper, 1″ plank; ground floor, concrete stone.	7,683	164,531	4 10 8
	do ...	Quarter-guard and cells, British Infantry.	Single ...	P ..	3 0	P ...	2 0	do ...	10 0	do ...	Stone concrete.	20,870	3,520	5 15 1
	do ...	Married quarters, Class II, for 10 families each.	Double ...	P ...	3 0	K ...	0 9	do ...	10 0	do ...	Upper, 1″ plank; lower, gravel.	25,002	7,360	3 6 2
	do ...	Ditto ...	do ...	P ...	3 0	K ...	0 9	do ...	10 0	do ...	do ...	25,002	7,360	3 6 2
	do ...	British Infantry armourer's shop	Single ...	P ...	3 6	P ...	2 0	P ...	10 6	Corr. iron ...	P ...	8,895	211,375	4 0 0
	do ...	Followers' quarters for 40 men, British Infantry.	do ...	K ...	3 0	K ...	1 0	Plank ...	10 0	Shingle ...	Plank, 1″ teak	5,003	2,160	2 5 0
	do ...	Temporary Protestant church...	do ...	K ...	3 0	K ...	1 0	Mat ...	10 0	Thatch ...	do ...	9,904	3,264	3 0 6
	do ...	Native Infantry full company barracks.	Double ...	P ...	3 0	K ...	0 9	Plank ...	10 0	Single ...	Upper, 1″ teak; lower, gravel	19,842	7,200	2 12 5
	do ...	Ditto ...	do ...	P ...	3 0	K ...	0 9	do ...	10 0	do ...	do ...	19,842	7,200	2 12 5
	do ...	Ditto ...	do ...	P ...	3 0	K ...	0 9	do ...	10 0	do ...	do ...	19,842	7,200	2 12 5
	do ...	Ditto ...	do ...	P ...	3 0	K ...	0 9	do ...	10 0	do ...	do ...	19,842	7,200	2 12 5
	do ...	Armourer's shop, Native Infantry lines.	Single ...	P ...	3 0	P ...	2 0	P ...	10 6	Corr. iron ...	P ...	5,157	680	7 9 4
	do ...	Quarter-guard, lock-up, and solitary cells, Native Infantry.	do ...	P ...	3 0	P ...	2 0	Plank ...	10 0	Shingle ...	Plank, 1″ teak	5,331	1,440	3 11 2
	Ye-u ...	Deputy Commissioner's Court-house.	Double ...	P ...	3 0	P ...	2 0	do ...	14 0	do ...	Upper, 1″ teak; lower, concrete.	42,680	6,528	6 8 7
	do ...	Magazine for civil police ...	Single ...	P ...	3 0	P ...	1 0	P ...	12 0	Arch ...	Concrete ...	914	178	5 2 1
	do ...	Post office ...	Double ...	K ...	3 0	K ...	1 0	Plank ...	10 0	Single ...	Upper, 1″ plank; lower, asphalte.	4,321	1,024	4 3 6
	do ...	Subdivisional Court-house, Tabayaw.	Single ...	K ...	3 0	K ...	1 0	do ...	10 0	do ...	1″ plank ...	3,072	1,400	2 3 1
	do ...	Subdivisional Court-house, Tamadaw.	do ...	K ...	3 0	K ...	1 0	do ...	10 0	do ...	do ...	3,072	1,400	2 3 1

COMPARATIVE STATEMENT OF SELECTED BUILDINGS CONSTRUCTED IN THE THIRD CIRCLE OF SUPERINTENDENCE FOR THE YEAR ENDING 31ST MARCH 1891—(continued).

Division.	Locality.	Name of building.	Nature of Building.										Cost.	Area.	Rate per superficial foot.
			Single or double storied.	Foundation.		Plinth.		Walls (to top of wall-plate).		Roof.	Floor.				
					Ft. In.		Ft. In.		Ft. In.				Rs.	S. ft.	Rs. A. P.
Shwebo—(concluded).	Ye-u—(concluded).	Myoôk's Court-house at Kyunhla.	Single ...	K ...	3 0	K ...	1 0	Plank ...	10 0	Shingle ...	1" plank ...		5,389	1,400	3 13 7
	Shwebo ...	Dâk bangalow ...	Double ...	P ...	3 0	K ...	1 0	do ...	10 0	do ...	Upper, 1" plank; lower, broken brick.		4,556	1,024	4 7 2
Ruby Mines.	Mogôk ...	Military police hospital ...	Single ...	Posts in ground.	3 0	...	4 0	½" teak weather boarding.	14 0	do ...	1" teak planks on timber girders and joists.		15,200	4,257	3 9 0
	do ...	Post office ...	Double ...	Posts on concrete blocks in ground.	2 0	...	10 0	½" teak planks plain short joists with batten splices over joists.	7 0	Corr. iron ...	Lower, concrete with asphalte over-laid; upper, 1" teak planks on timber girders and joists.		7,438	1,152	6 7 0
	do ...	Military police quarter-guard and stores.	Single ...	Posts in ground.	3 0	...	2 6	½" teak weather-boarding.	10 0	do ...	1" teak planks on timber girders and posts.		4,674	1,860	2 8 0
	do ...	Piece-goods bazaar ...	do ...	do ...	3 0	...	...	Corr. iron ...	8 6	do ...	Earthen ...		15,200	7,200	2 1 9
	Thabeitkyin...	Post office ...	Double ...	do ...	3 0	...	10 9	½" teak plank, tongued and grooved.	6 6	Shingle ...	Lower, concrete with asphalte over-laid; upper, planked.		5,120	720	7 0 0
Katha	Katha ...	Post office ...	do ...	Kutcha ...	...	...	...	½" plank, tongued and grooved.	In=21 0 O= 8 0	P. S. P. Sh....	Upper, plank; lower, asphalte		6,692	1,216	6 0 0

COMPARATIVE STATEMENT OF SELECTED BUILDINGS CONSTRUCTED IN THE THIRD CIRCLE OF SUPERINTENDENCE FOR THE YEAR ENDING 31ST MARCH 1891—(concluded).

Division.	Locality.	Name of building.	Nature of building.										Cost.	Area.	Rate per superficial foot.
			Single or double storied.	Foundation.		Plinth.		Walls (to top of wall-plate).		Roof.	Floor.				
				Ft.	In.		Ft.	In.		Ft.	In.				
Wuntho.	.....	.....	.....	.....	...	...	...	.....		.....	.....	.....	Rs. ...	S. ft. ...	Rs. A. P. .....
Bhamo.	Bhamo, Fort C.	Commanding Officer's quarters.	Double ...	Posts on concrete. ...		P ...	1	6	Pl	9	6	P. Sh. ...	Concrete, 1" teak	19,321	69×44 =3,036	6 15 10
	do ...	Cook-house for unit officers' quarters.	Single ...	P. concrete	1 0	P ...	1	0	P	9	3	C. I. 20' ...	Concrete ...	6,909	2,100	3 4 2
	do ...	Block of two unit quarters for Station Staff Officer.	Double ...	Posts on concrete. ...		P ...	1	6	Pl	21	0	P. Sh. ...	Concrete, 1" teak	8,562	1,536	5 9 3
	do ...	Sergeants' mess ...	Single ...	Iron spikes in concrete. ...		P ...	1	6	Pl	16	0	do ...	Concrete ...	10,427	4,25,625	2 7 2
	do ...	Servants' quarters with stables...	Double ...	Posts		Post ...	3	0	Pl	10	0	do ...	1" teak ...	19,553	10,400	1 14 1
	do ...	Lavatory for Station hospital ...	do ...	Posts in concrete. ...		do ...	...		Pl	23	0	do ...	Earth, teak ...	2,582	480	5 6 1
	do ...	One block of three unit officers' quarters.	do ...	do		do ...	...		Pl	21	0	do ...	Concrete, 1" teak	12,077	4,304	5 3 10
	do ...	Quarters for four Native Hospital Assistants.	Single ...	do		Teak ...	3	0	Pl	10	0	P. Sh. ...	1" teak ...	3,617	2,112	1 11 4
	Bahmo Town	Civil hospital for 20 beds ...	Double ...	do		P ...	1	6	Pl	25	0	do ...	Broken bricks, 1" teak.	9,109	28,125	3 3 10
	do ...	Dâk bungalow, two quarters ...	do ...	do		P ...	...		Pl	16	0	do ...	Concrete, 1" teak	5,202	1,024	5 1 3
	do ...	Executive Engineer's office ...	Single ...	Posts		Posts ...	2	0	Pl	14	0	do ...	1" teak ...	6,521	1,440	4 8 6

G. B. C. P. O.—No. 624, P. W. S., 5-2-92—220.

PUBLIC WORKS DEPARTMENT, BURMA.

Comparative statement of selected bridges constructed in the Third Circle of Superintendence for the year ending 31st March 1891.

Division.	Name of bridge or of nulla and situation.	Date of completion.	Description of bridge.	Kind and depth of foundation.	Number and size of spans.	Width of road-way between parapets or railings.	Height of road-way above foundations or river beds.	Total length of bridge.	Total cost.	Cost per 100 feet of length.	Remarks.
						Feet.	Feet.	Feet.	Rs.	Rs.	
Mandalay ...	.....	...	.....	.....	.....	.....	.....	.....	...	...	
Shwebo ...	.....	...	.....	.....	.....	.....	.....	.....	...	...	
Katha ...	.....	...	.....	.....	.....	.....	.....	.....	...	...	
Wuntho ...	.....	...	.....	.....	.....	.....	.....	.....	...	...	
Bhamo ...	.....	...	.....	.....	.....	.....	.....	.....	...	...	
Ruby Mines ...	Kin bridge ...	31st March	Teak timber trusses of framework supporting girder and planking. The trusses are placed on stone masonry pieces longitudinal girder land spans resting on dry stone abutments.	Concrete 5 feet below ground on rocky bed.	One of 60 feet, two of 15 feet.	10 ...	22 ...	106 ...	8,300	78	

G. B. C. P. O.—No. 624, P. W. S., 4-2-92—220.

PUBLIC WORKS DEPARTMENT, BURMA.

Statement showing Memorandum of Construction and Cost of Bridges exceeding 50 feet in length in the Fourth Circle, constructed during 1890-91.

Executive division.	Name of bridge or of nulla and situation.	Date of completion.	Description of bridge.	Kind and depth of foundation.	Number and size of spans.	Width of road-way between parapets or railings.	Heights of road-way above foundation or river-bed.	Total length of bridge.	Total cost.	Cost per 100 feet of length.	Remarks.
									Rs.	Rs. a.	
Pegu ...	...	...	.....	.....	...	...	...	...	...	...	
Toungoo ...	...	...	.....	.....	...	...	...	...	...	...	
Meiktila ...	Bridge No. 73, 3rd section Myingyan-Fort Stedman road.	...	Round pyingado posts, trestles diagonally braced with squared teak longitudinal girders carried on teak cross heads and earlets with 3-inch pyingado planking nailed to the longitudinal girders.	Trestles in trenches 6 feet below bed of stream.	Three spans of 20 feet, two spans of 15 feet.	11 feet ...	11 feet ...	94 feet ...	2,403	2,556 0	
Kyauksè ...	Kinze	...	Teak pile bridge with girders and teak joist planked floor and boxing.	8 feet pile	Two spans of 20 feet, six spans of 15 feet.	11 feet ...	25 feet ...	110 feet ...	2,756	25,055 0	
	Danchaung ...	...	Do do do	8 feet pile	Seven spans of 15 feet.	12 feet ...	29 feet ...	105 feet ...	3,310	3,153 5	
	Panlaung ...	...	Pile chuster piers; trussed girders; everything of teak.	12 feet pile ...	Two spans of 60 feet. Four spans of 20 feet.	24 feet ... 11 feet ...	40 feet ... 31 feet ...	120 feet, 80 feet } 200 feet.	9,437	4,218 5	

G. B. C. P. O.—No. 624, P. W. S., 4-2-82—220.

PUBLIC WORKS DEPARTMENT, BURMA.

COMPARATIVE COST OF NEW BUILDINGS IN THE FOURTH CIRCLE CONSTRUCTED DURING 1890-91.

Division.	Locality.	Name of building.	Description and height of walls, &c.										Cost.	Area.	Rate per superficial foot.
			Single or double storied.	Foundation.	Ft. In.	Plinth.	Ft. In.	Walls (to top of wall plate).	Ft. In.	Roof.	Floor.		Rs.	Sq. ft.	Rs. A. P.
Pegu.	Thôngwa ...	Bazaar	Single ...	Posts ...	3 6	Nil ...	...	Pl. S. and W. lattice N. and E.	11 0	C. I. ...	Pl. ...		15,075	9,240	1 9 0
	Pagandaung	Enlarging bazaar	do ...	do ...	3 0	Nil ...	...	.....	9 0	P. Sh. ...	Pl. ...		2,681	1,800	1 8 0
	Pegu ...	Police barracks	do ...	do ...	3 0	Nil ...	...	Pl.	11 0	C. I. ...	Pl. ...		5,153	3,290	1 9 0
	do ...	Store godown	do ...	do ...	3 0	Nil ...	...	Pl.	9 0	C. I. ...	F. M. ...		630	512	0 13 0
	do ...	Out-offices circuit-house ...	do ...	do ...	3 0	Nil ...	...	Pl. and C. I. ...	9 0	C. I. P. Sh....	Pl. and C. ...		2,156	860	2 8 0
	do ...	Out-offices post and telegraph offices.	do ...	do ...	2 6	Nil ...	...	Pl.	6 6	Thatch ...	Pl. ...		418	540	0 12 3
Toungoo.	Ôkpyut ...	Inspection bungalow ...	Single ...	Posts ...	3 0	40 feet ...	40 0	Bamboo ...	10 0	Thatch ...	Pl. ...		1,878	1,600	1 2 4
	Shwegyin ...	Jail ward	Double ...	do ...	3 0	Nil ..	...	Plank ...	17 0	C. I. 20° ...			6,080	2,408	2 8 3
	do ...	Jail workshed	Single ...	do ...	3 0	...	...	Palisade ...	9 0	C. I. 20° ...	Rammed laterite.		1,929	15,000	1 4 6
	do ...	Jail granary	do ...	Pucka ...	3 0	Pucka ...	0 6	C. I. 20° ...	6 6	C. I. 20° ...	Asphalte ...		2,114	1,000	2 1 9
Meiktila.	Meiktila ...	Half company B. I. barrack ...	Double ...	Posts on concrete pillars.	...	...	...	½" teak plank T. and Gd.	...	Shingle ...	1" teak plank (T. and Gd. above gravel basement).		29,630	10,080	2 15 0
	do ...	Cook-house for do ...	Single ...	Concrete ...	...	Masonry ...	...	Masonry ...	...	Corrugated iron	Concrete ...		3,264	833	3 14 8
	do ...	Wash-house for do ...	do ...	do ...	...	...	...	¾" teak plank ...	...	Shingle ...	...		3,006	864	3 7 8
	do ...	Urinal for do ...	do ...	Posts in holes filled.	...	...	...	½" teak plank ...	...	...	Earth ...		186	36	5 2 8
	do ...	Latrine for do ...	do ...	do ...	...	...	...	do ...	...	...	Earth ...		2,128	744	2 13 9
	do ...	Hospital B. I. for 30 beds ...	Double ...	Posts on concrete block masonry retaining wall.	...	Masonry ...	...	do ...	...	...	Concrete with ¾" asphalte.		26,208	8,352	3 2 2
	do ...	Lavatory	do ..	Posts on concrete.	...	Nil ...	...	do ...	...	...	1' teak plank		2,801	528	5 4 10
	do ...	Latrine	do ...	do ...	...	Nil ...	...	do ...	...	...	do ...		1,438	270	5 5 2

COMPARATIVE COST OF NEW BUILDINGS IN THE FOURTH CIRCLE CONSTRUCTED DURING 1890-91—continued.

Division.	Locality.	Name of building.	Description and height of walls, &c.								Cost.	Area.	Rate per superficial foot.
			Single or double storied.	Foundation.		Plinth.		Walls (to top of wall-plate).		Roof.	Floor.			
					Ft. In.		Ft. In.		Ft. In.			Rs.	Sq. ft.	Rs. A. P.
Meiktila—continued.	Meiktila ...	Contagious disease ward ...	Single ...	Concrete		Masonry		Masonry		...	Concrete with ¾" asphalte.	6,031	1,908	3 2 6
	do ...	Cook-house	do ...	do		... ...		....		Corrugated iron	Concrete ...	1,234	315	3 14 8
	do ...	Mortuary	do ...	Posts on concrete blocks.		... ...		½" teak plank ...		Shingle ...	Concrete with asphalte	1,177	256	4 9 6
	do ...	Apothecary's quarters ...	Double ...	Posts on concrete blocks.		Masonry ...		½" plank above ...		Shingle ...	Concrete and cement plaster below 1" teak plank above.	6,796	1,239	3 14 6
	do ...	Sergeants' Mess, B. I. ...	Single ...	do ...	...	do ...	...	½" teak plank ...	...	...	Concrete with cement plaster.	9,377	4,181	2 3 10
	do ...	Quarterguard and cells ...	do ...	...	...	do ...	...	.....	...	...	...	17,173	8,755	1 15 5
	do ...	Block 2, unit quarters for officers	Double ...	...	...	do ...	...	Masonry below teak plank above.	...	...	Concrete with cement plaster below and teak plank above.	9,673	1,792	5 6 4
	do ...	Commissariat sergeant's quarters.	...	...	...	do ...	...	.....	...	...	...	6,308	1,649	3 13 2
	do ...	Magazine	Single ...	Concrete ...	...	do ...	...	Masonry ...	...	Masonry arch with asphalte.	Concrete with asphalte.	6,432	792	8 1 11
	do ...	1 Temporary officer's mess ...	Double ...	Posts ...	...	Nil ...	...	Mat	...	Thatch ...	Jungle plank	1,637	1,944	0 13 5
	do ...	1 Temporary barrack sergeant's quarters.	Single ...	...	...	Nil ...	...	.....	...	...	...	761	1,024	0 11 10
	do ...	1 block of quarters for transport followers.	do ...	Posts ...	...	Nil ...	...	Mat	...	Thatch ...	Jungle plank	2,064	2,160	0 15 3
	do ...	1 Church	...	Posts in concrete.	...	Masonry ...	...	.....	...	...	Gravel ...	7,556	3,816	1 15 8
	do ...	1 Post Office	Double ...	...	...	Nil ...	...	½" teak plank ...	...	Shingle ...	Concrete and asphalte below teak plank above.	4,463	1,024	4 5 8
	do ...	Workshed, Meiktila Jail ...	Single ...	Posts on concrete blocks.	...	Nil ...	...	4" × 2" pallisading	...	do ...	Gravel ...	2,969	1,250	2 6 0
	do ...	Female ward in Meiktila Jail ...	do ...	...	...	Nil ...	...	½" teak plank ...	...	Corrugated iron	1" teak plank	1,589	288	5 8 3
	do ...	Under-trial ward Meiktila Jail	do ...	...	...	Nil ...	...	4" × 2" pallisading	...	...	...	3,231	864	3 11 0

COMPARATIVE COST OF NEW BUILDINGS IN THE FOURTH CIRCLE CONSTRUCTED DURING 1890-91—concluded.

Division.	Locality.	Name of building.	Description and height of walls, &c.									Cost.	Area.	Rate per superficial foot.
			Single or double storied.	Foundation.	Ft. In.	Plinth.	Ft. In.	Walls (to top of wall plate).	Ft. In.	Roof.	Floor.			
												Rs.	Sq. ft.	Rs. A. P.
Meiktila—concluded.	Meiktila ...	Thana Meiktila	Double ...	Posts in concrete.	...	Nil ...	...	½" teak plank ...	...	Shingle ...	Gravel ...	4,086	1,280	3 3 1
	do ...	School, Meiktila	...	...	...	Nil ...	...	.....	...	...	...	3,332	1,536	2 2 8
	do ...	1 married barrack for 20 civil police.	Single ...	Posts ...	...	Nil ...	...	Mat	...	Thatch ...	Jungle plank	2,166	4,664	0 7 5
	do ...	Single barrack for 20 civil police	...	...	...	Nil ...	...	.....	...	...	...	160	3,344	0 7 5
	Wundwin ...	1 Post Office	...	Posts in concrete.	...	Nil ...	...	½" teak plank ...	...	Shingle ...	1" teak plank	1,675	600	2 12 8
	Meiktila road	1 Post Office, Meiktila road ...	...	...	...	Nil ...	...	.....	...	...	...	1,613	600	2 11 0
	do ...	Combined Myook's Court and thana, &c.	Double ...	Posts on concrete blocks.	...	Nil ...	...	.....	...	...	...	8,635	2,460	3 8 2
	Yamèthin ...	Hospital	do ...	Posts in ground.	...	Nil ...	...	Corrugated iron below and ½" teak planking above.	...	...	1" teak T. and Gd.	6,553	3,068	2 2 2
	do ...	Thana	do ...	...	...	Nil ...	...	½" teak planking T. and Gd.	...	...	...	3,974	1,280	3 1 8
	do ...	Married barrack for 25 civil police.	Single ...	Posts in ground.	...	Nil ...	...	Mat	...	Thatch ...	1" jungle wood	3,691	5,764	0 7 5
	Meiktila ...	Single barrack for 15 civil police	do ...	do ...	...	Nil ...	...	.....	...	...	...	1,103	2,310	0 7 7
	do ...	Sergeant Instructor's quarters...	Double ...	do ...	...	Masonry ...	...	Lath and plaster ...	...	Shingle ...	1" teak T. and Gd.	3,295	1,088	3 0 5
	do ...	Commandant's quarters, Pyawbwe.	do ...	do ...	...	Nil ...	...	Mat	...	Thatch ...	1" jungle wood	2,063	1,782	1 2 6
	do ...	Military police barracks, Yamèthin.	Single ...	do ...	...	Nil ...	...	do	...	...	Bamboo ...	974	4,260	0 3 8
Kyaukse.	Kyaukse ...	Police thana	Double ...	Posts ...	4 0	P ...	2 0	P. and Pl. ...	24 0	Sh. ...	Teak ...	2,167	575	3 12 3
	Myittha ...	ditto	do ...	do ...	4 0	P ...	2 0	P. and Pl. ...	24 0	Sh. ...	do ...	2,167	575	3 12 3
	Singaing ...	ditto	do ...	do ...	8 0	P ...	3 0	Pl.	24 0	Sh. ...	do ...	2,167	575	3 12 3
	Paleik ...	ditto	do ...	do ...	4 0	P ...	2 0	Pl.	24 0	Sh. ...	do ...	2,167	575	3 12 3
	Kume ...	Rest-house	Single ...	do ...	4 0	Posts ...	10 0	Mat	24 0	Thatch ...	do ...	783	1,280	0 9 9

G B. C. P. O.—No. 624, P. W. S., 4-2-92—220.

It is requested that in all future correspondence on this subject the department, No. and date may be quoted.

No. 1882-1306.

Burma.

PUBLIC WORKS DEPARTMENT.

To The Secretary to the Government of Madras. P. W. D. Madras.

Dated Rangoon, the 8th February 1892.

SIR,

In continuation of this office 113, W. dt 23.4.91 o/c 3838 dated 9th April 1891 forwarding copy of selected buildings and bridges in Burma, I am directed to forward for information one copy of addenda to the same, with request you will kindly have them inserted in the statement relating to each division to which they pertain.

I have the honour to be
Sir
Your most obedient Serv

P. E. Hawkins
Asst. Secretary

Offg:
Wm. S. 8/2

G. B. C. P. O.—No. 5006, P. W. 9-12-91—960.

P. W. CURRENT No. 1137

No 1131 Wd 23-4

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No. 512 Wd 17 Feby

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April 1891

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