(1) பக்கங்களின் எண்ணிக்கை 42

(2) புதுக்கித் திருப்பிய நாள் பிப்ரவரி 90

(3) ஆதாரங்குறிப்பவர் சுருக்கொப்பம் [illegible]

தமிழ்நாடு ஆவணக் காப்பகம்.

தமிழ்நாடு அரசு

P.W.D பொதுப்பணித் துறை

அரசாணை எண். (Memoradum of Constn அச்சகம்

மு. கோப்புத் தாள் எண். பலவகை

2651-W

9.10.1890

நாள் : 198 .

மடிக்கவோ கண்டபடி கையாளவோ கூடாது

ஆவண, கா-1—18,006—15-6-87.

Memorandum of construction and cost of bridges, exceeding 50 feet in length in North-Western Provinces and Oudh.

MEMORANDUM OF CONSTRUCTION AND COST OF BRIDGES EXCEEDING

Abbreviation.—C. concrete;

Executive Division.	Name of bridge or of river or nála and situation.	Date of completion.	Description of bridge.	Kind and depth of foundation.
	FIRST CIRCLE, PROVINCIAL WORKS.			
	Haidrámal bridge over Kali nadi on the Panetai and Kásganj road.	...	Brick masonry ...	13 feet ...
	Kali nadi bridge on the Aligarh and Ramghat road.	...	Ditto ...	20 „ ...
	Muttra, Kásganj and Bareilly Road.			
	Bridge in 49 mile ...	1868 ...	Masonry of kankar, arches of brick.	1½ concrete and 2½ kankar masonry.
	„ 42 „ over Isaan nadi,	1868 ...	Ditto ...	2½ kankar masonry and 1½ concrete.
	„ 26 „ drainage ...	1875 ...	Brick masonry ...	1 foot concrete and 4 masonry.
	„ 19 „ Kurwan nadi ...	1888 ...	Red stone masonry and arches of brick.	3 feet concrete and 3 masonry.
	„ 46 „ drainage ...	...	Arches of brick, masonry & kankar.	20 feet on wells ...
	Aligarh, Etah and Cawnpore Section, Grand Trunk Road.			
	Bridge in mile 279 over drainage...	1873 ...	Kankar and B. masonry,	1 foot concrete, 1½ kankar masonry.
	„ „ 282	1865 ...	Ditto ...	2 feet kankar masonry ...
	„ „ 283 ...	1865 ...	Ditto ...	2 „ ditto ...
	„ „ 288 ...	1873 ...	Ditto ...	2 „ concrete and 1½ kankar masonry.
	„ „ 299	1863		
	„ „ 303 ...	1870 ...	Ditto ...	2 feet kankar masonry ...
	„ „ 306 ...	1876 ...	Ditto ...	2½ „ ditto ...
	Delhi, Aligarh and Agra Section, Grand Trunk Road.	...	Ditto ...	2½ „ concrete ...
	Bridge in mile 12 7 furlong ...	1856		
	„ „ 2 ...	1856 ...	Brick masonry ...	2½ feet kankar masonry.
	„ „ 13 over drainage,	1875 ...	Ditto ...	Ditto ...
MEERUT ...	Iron (plate) girder bridge, over the Tons nadi on the Dehra, Rampur Mundi road, 6 miles from Dehra, Dehra Dún district.	March, 1887 ...	Ditto ...	3 feet concrete ...
			Plate girder 65 × 5 cross girder on lower boom. Floor on buckle plates.	3 feet concrete, 12 feet boulder masonry; 15 total.
	Begurzpur bridge over Kali nadi on Gházíabad, Meerut, Rurki and Landour road, Muzaffarnagar district.	Not known ...	Pakka arches ...	Open foundation ...
	Kali nadi bridge on Muzaffarnagar and Shamli road.	December, 1887 ...	Iron girder bridge one span.	Wells sunk, 21 feet ...
	Titavi bridge over Hindan nadi, on Muzaffarnagar and Shamli road.	Originally built and completed in March, 1886. Remodelled in December 1886.	Spanned by 20 arches of masonry.	Wells sunk, 14 feet ...
	Krishni bridge on Muzaffarnagar and Shamli road.	March 1884 ...	Iron girder ...	Wells and piers ...
	Bridge over the Kali nadi near Saini on Meerut and Bijnor road, Meerut district.	March, 1888 ...	Iron lattice girder over brick masonry. Abutments and piers, road way planked.	Brick work wells, 31 feet in depth.
	Choya nadi bridge at Dehat on Dehat Railway feeder road, Oudh and Rohilkhand Railway, Bulandshahr district.	1888 ...	"Lattice" iron girder bridge.	Well ...
	Dhamola river pilgrim road in the Saharanpur district.	1877 ...	Masonry	Wells 20' deep ...

2

50 FEET IN LENGTH IN NORTH-WESTERN PROVINCES AND OUDH.

P. pakka; B. brick.

Number and size of span.	Width of roadway between parapets or railings.	Height of roadway above foundation or river bed.	Total length of bridge.	Total cost.	Cost per 100 feet of length.	Remarks.
				Rs. a. p.	Rs. a. p.	
5 span of 40 feet each.	25 feet ...	24 feet ...	272 feet ...	57,530 0 0	21,150 0 0	
3 span 43 feet ...	22 „ ...	21½ „ ...	170 „ ...	30,667 0 0	18,039 0 0	
5 „ 10 × 5 feet...	21 „ ...	10½ „ ...	102 „ ...	3,876 0 0	3,800 0 0	
5 „ 10 × 5 „ ...	21 „ ...	10½ „ ...	102 „ ...	3,876 0 0	3,800 0 0	
4 „ 15 × 6 „ ...	16½ „ ...	11½ „ ...	125 „ ...	4,254 0 0	3,403 0 0	
5 „ 19 × 12 „ ...	16 „ ...	15½ „ ...	127 „ ...	5,398 0 0	4,250 0 0	
6 „ 10 × 3¾ „ ...	16 „ ...	9 „ ...	102 „ ...	9,450 0 0	9,265 0 0	
5 „ 6 × 5½ „ ...	40 „ ...	9½ „ ...	77 „ ...	4,620 0 0	6,000 0 0	
4 „ 6 × 3 „ ...	21½ „ ...	7½ „ ...	65 „ ...	1,703 0 0	2,620 0 0	
4 „ 6 × 3 „ ...	21½ „ ...	7½ „ ...	65 „ ...	1,703 0 0	2,620 0 0	
1 „ 25 × 6 „ ...	30½ „ ...	11 „ ...	62 „ ...	3,427 0 0	5,526 0 0	
2 „ 6 × 4 „ ...	18 „ ...	8 „ ...	51 „ ...	1,148 0 0	2,249 0 0	
3 „ 6 × 3 „ ...	13 „ ...	7½ „ ...	57 „ ...	1,283 0 0	2,351 0 0	
3 „ 14½ × 3 „ ...	30 „ ...	9 „ ...	91 „ ...	3,924 0 0	4,312 0 0	
3 „ 6 × 3 „ ...	20 „ ...	6½ „ ...	55 „ ...	1,238 0 0	2,250 0 0	
3 „ 6 × 3 „ ...	20 „ ...	6½ „ ...	55 „ ...	1,238 0 0	2,250 0 0	
2 „ 10 × 6½ „ ...	17 „ ...	12 „ ...	71 „ ...	2,263 0 0	3,187 0 0	
3 „ 60 feet ...	12 „ ...	23½ „ ...	256 „ 8 inches,	36,000 0 0	14,008 0 0	
3 „ 18 „ ...	23 „ ...	15 feet ...	175 „ ...	...	...	
1 „ 68 „ ...	12 „ ...	18½ „ ...	135¾ „ ...	12,721 0 0	9,565 0 0	Foundations and abutments were originally designed for on arches bridge. This bridge has a concrete and bricks on edge floor.
20 „ 22⅝ „ ...	14 „ ...	20½ „ ...	576 „ ...	42,125 0 0	7,313 0 0	
1 „ 45½ „ ...	13 „ ...	15 „ ...	90 „ ...	7,082 0 0	7,869 0 0	
3 „ 50 „ ...	13 „ 10 inches, between railings.	20 „ 2 inches, above foundation.	204 „ ...	37,491 0 0	18,378 0 0 nearly.	
1 „ 81 „ 3 inches.	12 feet ...	15'—3" ...	144 „ 3 inches,	38,000 0 0	26,388 14 1	
3 „ 25 feet ...	13 „ ...	19½ above pakka floor.	89 „ /...	15,149 0 0	17,021 0 0	

MEMORANDUM OF CONSTRUCTION AND COST OF BRIDGES EXCEEDING

Abbreviation.—C. concrete;

Executive Division.	Name of bridge or of river or nála and situation.	Date of completion.	Description of bridge.	Kind and depth of foundation.
	FIRST CIRCLE, PROVINCIAL WORKS—(*continued*).			
	Delhi, Aligarh and Agra Section, Grand Trunk Road—(continued).			
AGRA ...	Bagar nála in the Farukhabad district.	31st March 1884 ...	Arch masonry bridge of 3 spans with block kankar flooring 2 feet thick.	Concrete 6 feet deep and 5½ feet broad under piers and 6 feet deep and 9 feet broad under abutments.
	Cawnpore, Jhánsi and Saugor road in the Jalaun district, mile 63, Bandha nála bridge on—	Not known ...	Pakka arched bridge ...	Pakka masonry 7 feet in depth.
	Orai nála bridge in the Jalaun district, mile No. 71.	Ditto ...	Ditto ...	3 feet concrete 6½ feet pakka masonry.
	Bastipur nála bridge on Jalaun Dehiapur road in the Jalaun district.	31st March 1887 ...	Lattice girder bridge ...	11 feet pakka masonry ...
	Malanga nála bridge	Under construction ...	Ditto ...	11 „ ditto ...
	Ghorasi nadi, mile 151 Cawnpore, Jhánsi and Saugor road in the Jhánsi district.	Not known ...	Arched with bricks remainder rubble in lime.	Rubble in lime, depth not known.
	Kalabad nála, mile 149 on Cawnpore, Jhánsi and Saugor road in the Jhánsi district.	Ditto ...	Ditto ...	Ditto ...
	Burwa nála, mile 13 on Jhánsi and Nowgong road in the Jhánsi district.	Ditto ...	Ditto ...	Ditto ...
	Dangri nála, mile 20 on Jhánsi Nowgong road in the Jhánsi district.	1869 ...	Arched with brick in lime and the rest rubble in lime.	Ditto 12 feet ...
JHÁNSI ...	Natha-nála, mile 21, Jhánsi and Nawábganj road, Jhánsi district.	1869 ...	Ditto ...	Ditto 15 „ ...
	Bhadrai bridge, mile 25, Jhánsi and Nowgong road, Jhánsi district.	1869 ...	Ditto ...	Ditto 15 „ ...
	Moray bridge, mile 26, Jhánsi and Nowgong road, Jhánsi district.	1869 ...	Ditto ...	Ditto 12 „ ...
	Lakheri river, mile 33, Jhánsi and Nowgong road, Jhánsi district.	1870 ...	Ditto ...	Ditto 18 „ ...
	Sukhnai river, mile 41, Jhánsi and Nowgong road, Jhánsi district.	1875 ...	Ditto ...	Ditto 30 „ ...
	Sukhnai bridge, mile 47, Jhánsi and Nowgong road, Jhánsi district.	1877 ...	Ditto ...	...
	Bridge in mile 49 near Kotra in the Jhánsi district.	1862 ...	Ditto ...	Ditto 14 „ ...
	Ratansi Bokhara road, Nátin nála in the Jhánsi district.	1862 ...	Ditto ...	Ditto 10 „ ...
	Second Class roads, Mau Gursarai road.			
	Lakhari river at Rewan, Jhánsi district.	1884 ...	Ditto ...	Ditto 14 „ ...
	Tola nála in the Jhánsi district ...	1865 ...	Ditto ...	Ditto 12 „ ...

3

50 FEET IN LENGTH IN NORTH-WESTERN PROVINCES AND OUDH.

P. pakka; B. brick—(*continued*).

Number and size of span.	Width of roadway between parapets or railings.	Height of roadway above foundation or river bed.	Total length of bridge.	Total cost.	Cost per 100 feet of length.	Remarks.
				Rs. a. p.	Rs. a. p.	
3 spans of 17 feet each.	17 feet ...	18 feet above foundation or flooring of bridge.	68 feet outside abutment and 102 feet to end of wings.	4,370 0 0	6,426 5 0 or 4,284 3 0 for 100 feet including wings walls.	The bridge is of 1st class masonry throughout. The thickness of arches is 1 feet 9 inches and that of piers and abutments 3 feet and 6½ feet respectively.
3 spans 20 feet each.	20½ „ ...	16¼ feet ...	214 „ ...	Not known ...	...	
5 „ 22 „ ...	20½ „ ...	11¼ „ ...	126 „ ...	Ditto ...	...	
1 „ 60 „ ...	11 „ ...	32½ „ ...	72 „ ...	13,523 0 0	18,728 0 0	
3 „ 60 „ ...	11 „ ...	36½ „ ...	205 „ ...	37,163 0 0	18,111 0 0	
10 „ 25 „ ...	25½ „ ...	20 feet from river bed.	374 „ ...	Not known ...	Not known.	
3 „ 25 „ ...	23 „ ...	16 ditto ...	162 „ ...	Ditto ...	Ditto.	
1 „ 27 „ ...	17 „ ...	23½ ditto ...	228 „ ...	Ditto ...	Ditto.	
6 „ 18 „ ...						
1 „ 25 „ ...	20 „ ...	16 ditto ...	85 „ ...	4,000 0 0	4,706 0 0	
3 „ 30 „ ...	19 „ ...	5 ditto ...	185 „ ...	11,600 0 0	6,270 0 0	
1 „ 42 „ ...	20 „ ...	25 ditto ...	118 „ ...	7,300 0 0	6,186 0 0	
1 „ 42 „ ...	20 „ ...	25 ditto ...	125 „ ...	7,750 0 0	6,200 0 0	
3 „ 28 „ ...	18 „ ...	18 ditto ...	155 „ ...	25,000 0 0	16,129 0 0	
9 „ 50 „ ...	18¼ „ ...	46 ditto ...	582 „ ...	93,100 0 0	15,996 0 0	
3 „ 40 „ ...	18 „ ...	30 ditto ...	200 „ ...	58,000 0 0	29,000 0 0	
1 „ 40 „ ...	26 „ ...	30 ditto ...	145 „ ...	5,000 0 0	3,448 0 0	
1 „ 40 „ ...	26 „ ...	17 ditto ...	136 „ ...	4,700 0 0	3,456 0 0	
3 „ 50 „ ...	16 „ ...	36½ ditto ...	297 „ ...	56,162 0 0	18,910 0 0	
3 „ 23 „ ...	25 „ ...	18 ditto ...	147 „ ...	7,500 0 0	5,102 0 0	

MEMORANDUM OF CONSTRUCTION AND COST OF BRIDGES EXCEEDING

Abbreviation.—C. concrete;

Executive Division.	Name of bridge or of river or nála and situation.	Date of completion.	Description of bridge.	Kind and depth of foundation.
	FIRST CIRCLE, PROVINCIAL WORKS—(*concluded*).			
	Second Class Roads, Mau Gursarai Road—(concluded).			
	Patrai river in the Jhánsi district,	1874 ...	Arched with brick in lime and the rest rubble in lime.	13 feet rubble in lime ...
	Damara nála in the Jhánsi district,	1860 ...	Ditto ...	10 „ ditto ...
	Bonra nála	1868 ...	Ditto ...	15 „ ditto ...
	Lohra nála	1862 ...	Ditto ...	10 „ ditto ...
	Chaich nála	1887 ...	Iron girder bridge ...	14 „ brick masonry ...
	Tallihal lake escape bridge on Cawnpore, Jhánsi and Saugor road, Lalitpur district.	...	Rubble stone masonry bridge with brick arches.	Rubble masonry on Muram soil, depth could not be ascertained.
	Lishnut nadi bridge, Lalitpur district on Cawnpore, Jhánsi and Sangor road.	Not known ...	Brick masonry bridge with arches.	Brick masonry on rocky bed.
	Kharkhari nadi in the Lalitpur district on Cawnpore, Jhánsi and Saugor road.	...	Ditto ...	Ditto ...
	Dood Vanrar nála in Lalitpur district on Cawnpore, Jhánsi and Saugor road.	...	Ditto ...	Brick masonry on Muram soil.
JHÁNSI—(*concluded*).	Bijoria nála in Lalitpur district on Cawnpore, Jhánsi and Saugor road.	...	Ditto ...	Ditto ...
	Beana nála in Lalitpur district on Cawnpore, Jhánsi and Saugor road.	...	Brick masonry bridge with arches.	Brick masonry on Muram soil.
	Sajad nadi causeway on Cawnpore, Jhánsi and Saugor road.	...	Masonry arched ...	...
	Lalitpur and Mahroni Road.			
	Sajnam river causeway ...	Not known ...	Rubble stone masonry bridge with brick arches.	Rubble masonry on rock depth could not be ascertained.
	Jamini nadi	Ditto ...	Brick masonry bridge with brick arches.	Pakka brick masonry on rocky bed depth could not be ascertained.
	Lalitpur and Mowaiepur Road.			
	Usai nadi causeway in the Lalitpur district.	December 1886 ...	Rubble stone masonry bridge with brick arches and concrete roadway.	Rubble masonry 1 foot ...
	Sajnam nadi causeway ...	March 1888 ...	Ditto ...	Ditto 1½ feet deep.
	Banai and Banpur.			
	Sajad river causeway ...	31st March 1888 ...	Rubble masonry pier abutment and wings and brick arches.	Rubble in lime on rock depth 1½ feet.
	Lalitpur and Chanderi road, Betwa causeway at Rajghát.	January 1889 ...	Ditto ...	Ditto depth 2 feet.
	SECOND CIRCLE, PROVINCIAL WORKS.			
KUMAUN AND KUMAUN DISTRICT.	New Thul (Eastern Ramganga river).	March 1886 ...	Iron wire rope, suspension bridge.	Pakka masonry on rock above ordinary water level.
	Massi (Western Ramganga river),	March 1887 ...	Ditto ...	Ditto ...

4

50 FEET IN LENGTH IN NO[illegible]H-WESTERN PROVINCES AND OUDH.

P. pakka; B. brick—(*continued*).

Number and size of span.	Width of roadway between parapets or railings.	Height of roadway above foundation or river bed.	Total length of bridge.	Total cost.	Cost per 100 feet of length.	Remarks.
				Rs. a. p.	Rs. a. p.	
2 span of 34 feet,	18 feet ...	25 feet from river bed.	203 feet ...	23,500 0 0	11,576 0 0	
1 „ 37 „						
1 „ 25 „	25 „ ...	From bed of river 18 feet.	60 „ ...	4,200 0 0	7,000 0 0	
3 „ 33 „	25 „ ...	30 feet ...	215 „ ...	21,500 0 0	10,000 0 0	
1 „ 24 „	25 „ ...	13 „ ...	60 „ ...	3,600 0 0	6,000 0 0	
1 „ 80 „	12 „ ...	18 „ ...	156 „ ...	25,351 0 0	16,246 0 0	
2 „ 8 „ 3 „ 6 „ 2 „ 5½ „ 1 „ 7 „ 1 „ 6 „	15½ „ ...	10½ „ ...	341 „ ...	Not known ...	...	
6 „ 14 „ 1 „ 9 „	24½ „ ...	10½ „ ...	218 „ ...	Ditto ...	...	
2 „ 14⅔ „ 2 „ 13½ „ 1 „ 14½ „ 1 „ 13 „	24 „ ...	16 „ ...	254 „ ...	Ditto ...	...	
1 „ 12½ „ 3 „ 10 „ 3 „ 12 „ 3 „ 8 „	20½ „ ...	12½ „ ...	178 „ ...	Ditto ...	...	
6 „ 15½ „	23 „ ...	14½ „ ...	310 „ ...	Ditto ...	...	
9 „ 13 „	17½ „ ...	11½ „ ...	202 „ ...	...	...	
15 „ 13 „	21 „ ...	10 „ ...	300 „ ...	...	...	
6 „ 20 „	13 feet between railing.	16½ „ ...	196 „ ...	...	...	
8 „ 20½ „	21 feet between railing.	20½ „ ...	258 „ ...	...	...	
7 „ 15 „	17 feet ...	10 „ ...	165 „ ...	2,993 0 0	1,814 0 0	
12 „ 12 „	17 „ ...	10 „ ...	255 „ ...	3,754 0 0	1,915 8 0	
3 „ 6 „	20 „ ...	6½ „ ...	272 „ ...	2,657 0 0	976 8 0	
25 „ 8 „	17 „ ...	6½ „ ...	990 „ ...	7,562 0 0	764 0 0	
1 „ 210 „	5 „ ...	40 feet above bed of river.	210 feet C. to C. of pier, *i. e.*, excluding back chain.	13,082 0 0	6,230 0 0	Bridle road.
1 „ 80 „	5 „ ...	42 ditto ...	80 ditto ...	3,292 0 0	4,115 0 0	Ditto.

MEMORANDUM OF CONSTRUCTION AND COST OF BRIDGES EXCEEDING

Abbreviation.—C. concrete;

Executive Division.	Name of bridge or of river or nála and situation.	Date of completion.	Description of bridge.	Kind and depth of foundation.
	SECOND CIRCLE, PROVINCIAL WORKS—(*continued*).			
KUMAUN AND KUMAUN DISTRICT—(*concluded*).	Jooli stream Ranibagh and Naini Tal bridle road.	March 1884 ...	Masonry arch bridge ...	Pakka masonry sunk 6 + 10 feet below surface of boulder bed.
	Kosi on Almora and Ránikhet cart road.	December 1887 ...	Iron girder (warranted type) (cast iron struts and wrought iron ties).	Pakka masonry on rock above ordinary water level.
	Relagarh ...	March 1887 ...	Wooden lattice ...	Ditto ...
	Chowmassie (Eastern Nayar river) in the Garhwál district.	1886 ...	Iron wire rope suspension bridge.	Founded on rock above low water level.
	Ramgarh ravine on Ránibagh and Ránikhet cart road.	May 1888 ...	Deodar timber platform on wrought iron lattice girders stone abutments in lime-mortar.	Shallow masonry rests on the natural rock.
	Kosi river (Ránibagh and Ránikhet cart road).	Incomplete ...	Road way on brick plates and cross girders of steel between rectangular framed steel on longitudinal girders resting on stone abutments in lime and mortar.	Abutment continued down to natural rocks at L. W. L. on one side, and 2½ above L. W. L. on the other.
LUCKNOW DIVISION, UNAO DISTRICT.	Kherai nadi bridge on Behar and Buxayhar road.	31st March 1883 ...	Brick masonry ...	Concrete and brick masonry depth of foundation 8 feet.
	Masonry bridge over the Kutra or Lakhimpur and Shahjahánpur second class road.	...	Masonry bridge ...	Well foundation 3 feet deep on an average.
	Suketa nala bridge on Lakhimpur and Shahjahánpur second class road.	1880 ...	Ditto ...	Well foundation 13 feet deep on an average protected with concrete curtain wall.
KHERI DISTRICT.	Kutna bridge over Gola and Khotra third class road.	Unknown ...	Timber pile bridge on stout and scraining beam.	For pier sinking of piles 10 feet. *For abutment and wings* 11½ feet thick bed of concrete placed 8 feet below river bed. The river bed consists of clay.
	Sarain bridge on Lakhimpur, and Mohamdi, third class road.	Not known ...	Masonry bridge ...	1½ feet thick bed of concrete placed 4½ feet below river which consists of clay.
LUCKNOW DIVISION, SITAPUR DISTRICT.	Bridge over the Sarain near Bari on Chundra and Barí road.	September 1888 ...	Masonry ...	C. wells 30 feet ...
	Bridge over the Beta nála on Misrikh and Jalalpur road.	October 1886 ...	Ditto ...	C. 2 feet P. 3 feet. ...

5

50 FEET IN LENGTH IN NORTH-WESTERN PROVINCES AND OUDH.

P. pakka; B. brick—(*continued*).

Number and size of span.	Width of roadway between parapets or railings.	Height of roadway above foundation or river bed.	Total length of bridge.	Total cost.	Cost per 100 feet of length.	Remarks.
				Rs. a. p.	Rs. a. p.	
2 arches 32 feet each and 1 of 36 feet.	10 feet ...	25 feet above bed of river.	105 feet ...	7,331 0 0	7,000 0 0	Bridle road.
1 span of 80 feet ...	12 „ ...	35 „ do. ...	94 „ ...	15,326 0 0	16,304 0 0	Cart road.
1 span of 37½ feet ...	5 „ ...	22 „ do. ...	82 „ ...	1,574 0 0	1,920 0 0	Bridle road.
1 span of 180 feet centre to centre suspension towers.	5 „ ...	Left abutment 20 feet; right, 23 feet above foundation and 33 feet above bed.	189 „ ...	9,500 0 0	5,025 0 0	180 feet taken as length from back to back of suspension towers.
1 span of 120 feet clear.	13 feet between railings.	41½ above foundation.	136½ feet including abutments.	40,764 0 0	27,934 0 0	Iron work made at Roorkee, completion report under preparation.
1 span of 200 feet clear.	16 ditto ...	45 feet above lowest foundation.	210 feet centre to centre of bearings.	Estimated cost 1,30,753 0 0	Estimated cost 62,266 0 0	Steel work designed and made in Great Britain. Bridge will be completed in 1888-89.
1 span of 40 feet ...	15 feet ...	27 feet ...	123 feet ...	13,436 0 0	10,924 0 0	
„ 30 „ each.	14 feet between blocking course and 13 feet between parapets.	28 „ ...	253½ „ ...	53,137 0 0	20,961 0 0	
20 „ ...	16 feet between blocking course and 19 feet between parapets.	19 „ ...	82 „ ...	16,253 0 0	19,821 0 0	This bridge has no curved wing-wall in line with the bridge but has guide wall like those of culverts.
3 „ 33 „ each.	13 feet ...	13½ „ ...	130 „ ...	3,632 0 0	2,794 0 0	The reason for so small a rate per 100 r. feet is that all wood work was done at Rs. 1-8-0. The wood at the time having been got very cheaply from local forest and because no costly foundations were needed owing to the favorable nature of the bed of the nála.
3 „ 20 „ each.	20 „ ...	17½ „ ...	73 „ ...	2,613 0 0	3,580 0 0	The reason for so small a rate per 100 r. feet is that expensive foundations were not needed and the rates paid were also low. For instance pakka masonry Rs. 14, earthwork Rs. 1-8-0, &c.
5 „ 45 „ each.	16 „ ...	43 „ ...	378 „ ...	81,000 0 0	21,716 0 0	
3 „ 15 „ each.	15 „ ...	19 „ ...	100 „ ...	5,377 0 0	5,377 0 0	

MEMORANDUM OF CONSTRUCTION AND COST OF BRIDGES EXCEEDING

Abbreviation.—C. concrete;

Executive Division.	Name of bridge or of river or nála and situation.	Date of completion.	Description of bridge.	Kind and depth of foundation.
	SECOND CIRCLE, PROVINCIAL WORKS—(*continued*).			
KUMAUN AND KUMAUN DISTRICT—(*concluded*).	Jeoli stream Ranibagh and Naini Tal bridle road.	March 1884 ...	Masonry arch bridge ...	Pakka masonry sunk 6 + 10 feet below surface of boulder bed.
	Kosi on Almora and Ránikhet cart road.	December 1887 ...	Iron girder (warranted type) (cast iron struts and wrought iron ties).	Pakka masonry on rock above ordinary water level.
	Belagarh ...	March 1887 ...	Wooden lattice ...	Ditto ...
	Chowmassie (Eastern Nayar river) in the Garhwál district.	1886 ...	Iron wire rope suspension bridge.	Founded on rock above low water level.
	Ramgarh ravine on Ránibagh and Ránikhet cart road.	May 1888 ...	Deodar timber platform on wrought iron lattice girders store abutments in lime-mortar.	Shallow masonry rests on the natural rock.
	Kosi river (Ránibagh and Ránikhet cart road).	Incomplete ...	Road way on brick plates and cross girders of steel between rectangular framed steel on longitudinal girders resting on stone abutments in lime mortar.	Abutment continued down to natural rocks at L. W. L. on one side, and 2½ above L. W. L. on the other.
LUCKNOW DIVISION, UNAO DISTRICT.	Kheraí nadi bridge on Rehar and Buxawhar road.	31st March 1883 ...	Brick masonry ...	Concrete and brick masonry depth of foundation 8 feet.
KHERI DISTRICT.	Masonry bridge over the Kutra or Lakhimpur and Sháhjahánpur second class road.	...	Masonry bridge ...	Well foundation 3 feet deep on an average.
	Suketa nala bridge on Lakhimpur and Sháhjahánpur second class road.	1880 ...	Ditto ...	Well foundation 13 feet deep on an average protected with concrete curtain wall.
	Kutna bridge over Gola and Khotra third class road.	Unknown ...	Timber pile bridge on stout and straining beam.	For pier sinking of piles 10 feet. *For abutment and wings* 11½ feet thick bed of concrete placed 8 feet below river bed. The river bed consists of clay.
	Sarain bridge on Lakhimpur, and Mohamdi, third class road.	Not known ...	Masonry bridge ...	1½ feet thick bed of concrete placed 4½ feet below river which consists of clay.
LUCKNOW DIVISION, SITAPUR DISTRICT.	Bridge over the Sarain near Bari on Chundra and Bari road.	September 1888 ...	Masonry	
	Bridge over the Beta nála on Misrikh and Jalalpur road.	October 1886 ...	Ditto ...	C. wells 30 feet ... C. 2 feet P. 2 feet ...

5

50 FEET IN LENGTH IN NORTH-WESTERN PROVINCES AND OUDH.

P. pakka; B. brick—(*continued*).

Number and size of span.	Width of roadway between parapets or railings.	Height of roadway above foundation or river bed.	Total length of bridge.	Total cost.	Cost per 100 feet of length.	Remarks.
				Rs. a. p.	Rs. a. p.	
2 arches 22 feet each and 1 of 36 feet.	10 feet ...	25 feet above bed of river.	105 feet ...	7,331 0 0	7,000 0 0	Bridle road.
1 span of 80 feet ...	12 „ ...	35 „ do. ...	94 „ ...	15,326 0 0	16,304 0 0	Cart road.
1 span of 37½ feet ...	5 „ ...	22 „ do. ...	82 „ ...	1,574 0 0	1,920 0 0	Bridle road.
1 span of 180 feet centre to centre suspension towers.	3 „ ...	Left abutment 20 feet; right, 23 feet above foundation and 33 feet above bed.	189 „ ...	9,500 0 0	5,026 0 0	180 feet taken as length from back to back of suspension towers.
1 span of 120 feet clear.	13 feet between railings.	41½ above foundation.	136½ feet including abutment.	40,764 0 0	27,924 0 0	Iron work made at Roorkee, completion report under preparation.
1 span of 200 feet clear.	16 ditto ...	45 feet above lowest foundation.	210 feet centre to centre of bearings.	Estimated cost 1,30,759 0 0	Estimated cost 62,266 0 0	Steel work designed and made in Great Britain. Bridge will be completed in 1888-89.
1 span of 40 feet ...	15 feet ...	27 feet ...	128 feet ...	13,436 0 0	10,924 0 0	
„ 30 „ each,	14 feet between blocking course and 13 feet between parapets.	28 „ ...	253½ „ ...	53,137 0 0	20,961 0 0	
20 „ ...	16 feet between blocking course and 19 feet between parapets.	19 „ ...	82 „ ...	16,253 0 0	19,821 0 0	This bridge has no curved wing-wall in line with the bridge but has guide wall like those of culverts.
3 „ 33 „ each,	13 feet ...	13½ „ ...	130 „ ...	3,632 0 0	2,794 0 0	The reason for so small a rate per 100 r. feet is that sál wood work was done at Rs. 1-8-0. The wood at the time having been got very cheaply from local forest and because no costly foundations were needed owing to the favorable nature of the bed of the nála.
5 „ 20 „ each,	20 „ ...	17½ „ ...	73 „ ...	2,613 0 0	3,580 0 0	The reason for so small a rate per 100 r. feet is that expensive foundations were not needed and the rates paid were also low. For instance pakka masonry Rs. 14, earthwork Rs. 1-8-0, &c.
5 „ 45 „ each.	16 „ ...	43 „ ...	378 „ ...	81,000 0 0	21,716 0 0	
3 „ 15 „ each.	15 „ ...	19 „ ...	100 „ ...	6,377 0 0	5,377 0 0	

MEMORANDUM OF CONSTRUCTION AND COST OF BRIDGES EXCEEDING

Abbreviation.—C. concrete;

Executive Division.	Name of bridge or of river or nala and situation.	Date of completion.	Description of bridge.	Kind and depth of foundation.
	SECOND CIRCLE, PROVINCIAL WORKS—(*concluded*).			
ROHILKHAND, BIJNOR DISTRICT.	Gargam nadi bridge on Bijnor and Nagina road.	31st March 1887 ...	Lattice girder with lead on cross plate girders resting on lower booms wing-walls in straight lines with parapets and girders.	Wells 12 in number 34 feet deep including curbelling at tops upper wooden curbs 4½ feet internal 9 feet external diameter, curbelling in wells 3 feet deep of brick rings set with bonded together with 5 feet concrete.
	Ban bridge on Bijnor and Nagina road.	31st October 1880 ...	Arched opening, pakka flooring with curtain walls 5 feet below, bed of stream Long-curved wing-walls, floor covered with 1 foot of earth by design. Inverted arches under small spans about bed level of stream.	Ordinary stepped pakka 7 feet 9 inches deep below floor and 8 feet 9 inches below bed of stream.
ROHILKHAND DIVISION, BAREILLY DISTRICT.	Nakuttia bridge on Bareilly, Fatehgarh and Gursahaiganj road.	March 1886 ...	Iron girder bridge ...	Well foundations 20 and 20 feet deep.
ROHILKHAND DISTRICT, BUDAUN DISTRICT.	Dhaisore nadi bridge ..	1889 ...	Ditto ...	42½ below 3 feet of bed well foundation.
	Bridge over Asufpur on Bissouli and Asufpur road.	1889 ...	Pakka masonry bridge ...	4½ feet concrete and 1½ pakka masonry.
	Aril bridge over Budaun and Shahjahanpur road.	March 1885 ...	Iron girder bridge ...	50 feet well sinking ...
SHAHJAHANPUR DISTRICT.	Ghatiaghát bridge over Goomti river on Pawayan and Kochar road.	March 1888 ...	Warren girder ...	Cylindrical wells 2 feet to each pier sunk to about 30 feet.
	THIRD CIRCLE, PROVINCIAL WORKS.			
FYZABAD DIVISION, FYZABAD DISTRICT.	Thirawa nala bridge, on Tanda and Jaunpur road.	March 1879 ...	Iron lattice girders on masonry abutments and pier.	Well foundations 20 feet deep, clay bottom.
	Mirha nala bridge on Fyzabad and Rae Bareli road.	March 1876 ...	Iron lattice girder pier and abutments of pakka masonry.	On well foundation 18 feet deep.
	Wooden bridge on Tons river Tanda and Jaunpur road.	Not known ...	Wooden girder piers and abutments of pakka brick works and planked road way and wooden railings.	Well foundation 20 feet deep.
FYZABAD DIVISION, GONDA DISTRICT.	Koana bridge at Sindhúraghát ...	Unfinished ...	Iron lattice girders, road way carried on cross iron girders and buckled plates.	Well foundation 37 feet deep.
FYZABAD DIVISION, PARTABGARH DISTRICT.	Sai nadi bridge on Allahabad, Sultánpur and Fyzabad road at Bellaghát.	22nd March 1876 ...	Iron girders on masonry abutments and piers.	Well foundation ...
FYZABAD DIVISION, BAHRAICH DISTRICT.	Bhakla river bridge on Bahraich and Bhinga road.	Unfinished ...	Iron girder bridges, piers and abutments of pakka brick work.	Well foundation 50 feet deep from bed of river.
BENARES DIVISION, BASTI DISTRICT.	Iron girder bridge over Koana nadi on Fyzabad, Basti and Gorakhpur Trunk Road.	March 1877 ...	Iron girder bridge ...	Well foundations 20½ feet below low water level. R. L. of L. W. L. 258·00 R. L. of S. B. F. L. 280·50 R. L. of O. F. H. L. 274·00 Girder bed ... 283·50 Formation level of road ... 290·50 Depth of girder 6 feet.

50 FEET IN LENGTH IN NORTH-WESTERN PROVINCES AND OUDH.

P. pakka; B. brick—(*continued*).

Number and size of span.	Width of roadway between parapets or railings.	Height of roadway above foundation or river bed.	Total length of bridge.	Total cost.	Cost per 100 feet of length.	Remarks.
				Rs. a. p.	Rs. a. p.	
75½ feet ...	12 feet ...	20 feet above top of walls.	135½ feet ...	40,500 0 0	30,000 0 0	
2 spans of 13½ feet ... 2 „ 4 „	21 „ ...	12 feet above bed of stream and 13 feet above floor level.	91 „ ...	1,559 0 0	1,713 0 0	
2 spans of 40 feet, 1 „ 60 „	12 „ ...	13½ feet ...	196 „ ...	33,987 0 0	17,340 0 0	
2 „ 40 feet each. 1 „ 10 feet,	12 „ ...	11½ „ ...	92 „ ...	24,744 0 0	26,896 0 0	
5 „ 40 feet each.	14 „ ...	12 „ ...	19½ „ ...	2,057 0 0	16,549 0 0	
5 „ 50 feet each.	12 „ ...	Above foundation 17 feet.	171 „ ...	46,000 0 0	17,000 0 0	
2 × 60 feet ...	12 „ ...	22 feet ...	310 „ ...	*About 60,800 0 0	12,452 0 0	*Including about Rs. 7,400 in approach.
2 × 60 „ ...	18 „ ...	19 „ ...	168 „ ...	28,456 0 0	16,938 0 0	
1 × 55½ „ ... 2 × 57½ „	12 „ ...	18 „ ...	161 „ ...	26,762 0 0	16,622 0 0	
3 × 60 „ ...	15 „ ...	27 „ ...	215 „ ...	Not known	...	
5 × 65 „ ...	16½ „ ...	38½ „ ...	205 „ ...	64,848 0 0	31,608 0 0	Estimated cost.
3 × 50 „ ...	16 „ ...	23½ „ ...	472½ „ ...	1,54,473 0 0	32,692 0 0	
3 spans of 50 feet each.	18 „ between railings.	50½ feet height of roadway above lowest point of river bed.	241½ „ ...	68,031 0 0	28,302 0 0	Ditto.
			249 „ ...	1,28,428 0 0	51,577 8 2	Ditto.

MEMORANDUM OF CONSTRUCTION AND COST OF BRIDGES EXCEEDING

Abbreviation.—C. concrete;

Executive Division.	Name of bridge or of river or nallah and situation.	Date of completion.	Description of bridge.	Kind and depth of foundation.
	THIRD CIRCLE, PROVINCIAL WORKS.—(*continued*).			
BENARES DIVISION, GORAKHPUR DISTRICT.	Iron girder bridge over Tarraina nadi in mile 31 of Ghazipur, Deoriahát and Gorakhpur Trunk Road.	September, 1880 ...	Iron girder bridge ...	Wells sunk 50 feet ...
	Rind nadi bridge at Salempur Mahora in mile 6 of Jhinjhak and Rasulabad, 2nd class road.	31st March, 1886 ...	The bridge is of 3 spans, the side ones are 25 feet each and have segmental arches, the centre opening has an iron girder of 40 feet. The foundation of piers is on two wells of eight feet inside and 11 feet outside diameter and of abutments and wing walls on six wells, two under abutment of eight feet inside diameter, and 11 feet outside diameter and those under wing walls of seven inside diameter. The thickness of piers above foundation is six feet and of abutment eight feet at base and 7 feet at top. The side arches spring from a height of 17½ feet and have a rise of 8 feet and thickness of arch at crown 1 foot 10½ inches. The girder is a plate girder 4½ feet high having roadway over lower florage. The cross girders are 4 feet apart and have buckle plates rivetted to them over which kankar metalling is given. The parapet is 4½ feet above roadway. The masonry in foundations wells and superstructure is all 1st class brick work.	Wells sunk to a depth of 23 feet under bed of the stream.
ALLAHABAD DIVISION, CAWNPORE DISTRICT.	Sehari nála bridge, mile 8 Jhinjhak and Rasulabad road.	31st March, 1887 ...	This bridge is spanned by a lattice girder of 35 feet having roadway over lower florage. The cross girders are 4½ feet apart to which buckled plates are rivetted, the foundations and superstructure are all of brick work in lime mortar and flooring of 2 feet thick of concrete. The chain walls are given both on up-stream and down-stream sides at a distance of 9 feet from the bridge. The bridge has one span of 15 feet, its foundations rest on very hard soil. The thickness of abutment above foundation is 5 feet 6 inches at base and 4 feet 6 inches at top.	Brick work in lime mortar depth 7½ feet under bed.

50 FEET IN LENGTH IN NORTH-WESTERN PROVINCES AND OUDH.

P. pakka ; B. brick—(*continued*).

Number and size of span.	Width of roadway between parapets or railings.	Height of roadway above foundation or river bed.	Total length of bridge.	Total cost.	Cost per 100 feet of length.	Remarks.
				Rs. a. p.	Rs. a. p.	
3 spans of 60 feet each.	18 feet ...	30½ feet ...	216½ feet ...	83,314 0 0	38,482 0 0	
2 spans 25 feet each. 1 span 40 feet each.	12 feet between parapets over springs and 17 feet to 23 feet between parapets of wing walls.	28½ „ ...	161 „ ...	31,620 0 0	19,634 0 0	
1 span of 35 feet ...	12 feet over girder, 18 feet between wing-walls.	15½ „ ...	63 „ ...	4,501 0 0	7,144 0 0	

MEMORANDUM OF CONSTRUCTION AND COST OF BRIDGES EXCEEDING

Abbreviation.—C. concrete;

Executive Division.	Name of bridge or of river or nála and situation.	Date of completion.	Description of bridge.	Kind and depth of foundation.
	THIRD CIRCLE, PROVINCIAL WORKS—(*concluded*).			
ALLAHABAD DIVISION, CAWNPORE DISTRICT.	Ken nadi bridge on Seriagaut and Rura, 3rd Class road.	31st March 1868 ...	The arch is segmental and springs from a height of 7 feet and has a rise of 3 feet, and thickness at crown 1½ feet, and height of parapet above road way is 2 feet; the flooring is of brick on edge over 7½ feet concrete.	Concrete 8 feet, 1st class brick work in lime mortar 2 feet total depth of foundation under bed level 5 feet.
ALLAHABAD DIVISION, FATEHPUR DISTRICT.	Sasurkhaderi bridge ...	1867 ...	Lattice girder bridge of one span of 60 feet on solid abutments of brick-work and splayed wing-walls 18 feet long.	Solid foundation of concrete 8 feet deep and of brickwork 4 feet deep.

8

50 FEET IN LENGTH IN NORTH-WESTERN PROVINCES AND OUDH.

P. pakka; B. brick—(*concluded*).

Number and size of span.	Width of roadway between parapets or railings.	Height of roadway above foundation or river bed.	Total length of bridge.	Total cost.	Cost per 100 feet of length.	Remarks.
				Rs. a. p.	Rs. a. p.	
One span of 15 feet,	12 feet, over spring 17½ feet to 25 feet between parapets over wing-wall's.	12¾ feet. ...	52½ feet ...	2,936 0 0	5,592 0 0	
One span 60 feet ...	12 feet ...	10½ „ ...	68 „ ...	11,500 0 0	16,911 0 0	

Statement showing comparative cost of certain selected buildings in North-Western Provinces and Oudh.

PUBLIC WORKS DEPARTMENT, NORTH

COMPARATIVE COST OF CER

Abbreviations:—P. denotes pucka. P. O. pucka outer. K. P. kutcha pucka. P. K. P. pucka kutcha pucka. K. P. K. and K. P. pucka kutcha and kutcha pucka. R. rubble. R. P. rubble stone pucka P. S. pucka stone. Fl. flagged. S. Fl. stone flag flooring. C. I. 22° corrugated iron. 22 M. kutcha masonry. R. M. rubble masonry. K. T. kankar and tar. B. E. brick on edge.

Division.	Locality.	Name of building.	Description and height					
			Single or double storey.	Foundation.		Plinth.		
					Feet.			Feet.
		FIRST CIRCLE.						
	Aligarh ...	Collector's kutcherry	Single ...	Block kankar ...	2¼	P. ...	...	1½
	Ditto ...	New Treasury do. ...	Do. ...	C. and P. M. ...	3	" ...	...	2
	Ditto ...	Guard house ...	Do. ...	Kankar ...	2	... ...	...	1
	Ditto ...	Abkári godown (excise)	Do. ...	P. ...	2½	... ...	...	
	Ditto ...	Ditto	Do. ...	C. and P. M. ...	1½	... ...	...	
	Ditto ...	Ditto	Do. ...	...	...	... ...	...	
	Ditto ...	Ditto	Do. ...	...	...	... ...	...	2
	Ditto ...	Ditto	Do. ...	...	2½	P. ...	...	1
	Ditto ...	Sadar Dispensary	Do. ...	C.	2½	... ...	...	3
	Ditto ...	Ditto	Do. ...	...	3½	" ...	...	
	Ditto ...	Ditto	Do. ...	" ...	2	" ...	...	1
	Ditto ...	Dead-house	Do. ...	K. P. ...	1	P. M. ...	...	
	Ditto ...	Tahsíli and 1st class police station ...	Do. ...	C. and M. ...	4½	... ...	...	¾
	Ditto ...	Judge's Court	Do. ...	P. M. and K. M.	2½	" ...	...	1¼
	Ditto ...	Munsiff	Do. ...	P. M. ...	1½	" ...	...	1½
	Ditto ...	Dák Bungalow	Do. ...	" ...	2½	" ...	...	1½
	Ditto ...	Church	Do. ...	P. ...	2	P. ...	...	1½
	Ditto ...	Public [illegible]s godown	Do. ...	C. ...	2	P. M. ...	...	1½
	Ditto ...	Police Magazine	Do. ...	P. ...	2	P. ...	...	½ ft.
	Ditto ...	Postal Workshops	Do. ...	C. and P. ...	2½	" ...	...	...
	Ditto ...	Ditto	Do. ...	C. and kankar.	2	... ...	...	½ ft.
	Ditto ...	Ditto	Do. ...	" ...	3	P. M. ...	...	½ "
	Ditto ...	Ditto	Do. ...	C. ...	1½	" ...	...	1 "
	Ditto ...	Ditto	Do. ...	" ...	2	K. M. ...	...	½ "
MEERUT ...	Ditto ...	Ditto	Do. ...	Kankar ...	1½	" ...	...	2 "
	Ditto ...	Ditto	Do. ...	C. ...	2½	Kankar ...	...	1 "
	Ditto ...	Ditto	Do. ...	Kankar ...	1	" ...	...	1 "
	Ditto ...	Ditto	Do. ...	C. ...	1	" ...	...	
	Ditto ...	Superintendent's house	Do. ...	" ...	1½	P. M. ...	...	
	Ditto ...	District Jail Barrack ... No. 1	Do. ...	P. M. ...	1½	... ...	...	
	Ditto ...	Ditto ... " 2	Do. ...	C. and P. M. ...	2½	... ...	...	
	Ditto ...	Ditto ... " 3	Do. ...	" ...	2½	... ...	...	
	Ditto ...	Ditto ... " 4	Do. ...	" ...	3	... ...	...	
	Ditto ...	Ditto ... " 5	Do. ...	" ...	2½	... ...	...	
	Ditto ...	Ditto ... " 6	Do. ...	P. M. and kankar.	3½	... ...	...	
	Ditto ...	Ditto ... " 7	Do. ...	" ...	2½	... ...	...	
	Ditto ...	Ditto ... " 8	Do. ...	" ...	2½	... ...	...	
	Ditto ...	Ditto ... " 9	Do. ...	" ...	3½	... ...	...	
	Ditto ...	Ditto ... " 10—11	Do. ...	C. and P. ...	3½	... ...	...	
	Ditto ...	Ditto ... " 12	Do. ...	P. ...	2	... ...	...	
	Ditto ...	Ditto ... " 13	Do. ...	" ...	2	... ...	...	
	Ditto ...	Ditto ... " 14—15	Do. ...	P. M. and C. ...	3½	... ...	...	
	Ditto ...	Ditto ... " 16	Do. ...	" ...	1½	... ...	...	
	Ditto ...	Ditto ... " 17	Do. ...	" ...	2	... ...	...	
	Ditto ...	Ditto ... " 18	Do. ...	" ...	2	... ...	...	
	Ditto ...	Workshops	Do. ...	C. and P. M. ...	2½	... ...	...	
	Ditto ...	Ditto	Do. ...	" ...	2½	... ...	...	
	Ditto ...	Cook-house	Do. ...	" ...	2½	... ...	...	
	Ditto ...	Offices	Do. ...	P. M. and C. ...	2	... ...	...	
	Ditto ...	Fort.	Do. ...	P. M. ...	2	... ...	...	
	Ditto ...	Magazine	Do. ...	C. ...	1½	P. M. ...	...	½
	Ditto ...	Bungalow I	Do. ...	" ...	2	" ...	...	½
	Ditto ...	Ditto II	Do. ...	" ...	3	" ...	...	½
	Ditto ...	Cook-house	Do. ...	" ...	3	" ...	...	½

10

WESTERN PROVINCES AND OUDH.

TAIN SELECTED BUILDINGS.

kutcha. In. P. inner pucka. F. M. flat mud. M. P. mud plaster. T. terraced. Pl. planked. P. T. pent tiled. masonry. D. S. dry stone. S. S. stone slabs. C. concrete. R. K. P. rubble stone in clay. B. F. brick flat. B. W. G. In. inner. O. outer. K. kankar. P. M. pucka masonry. P. B. pucka brickwork. M. masonry. K. F. B. flat bricks. J. A. Jack arches. T. A. tied arch. A. arched. S. stone.

of walls, &c.

Walls to top of wall of plate.			Roof.	Floor.	Cost.	Area.	Rate per superficial foot.
		Feet.			Rs.	Supl. feet.	Rs. a. p.
P. M.	...	24	Terraced arch on beams.	Brick on edge and terrace.	55,744	21,368	2 8 0
		20					
		13					
"	...	20	Arch concrete and girder.	Flagged ...	7,266	2,895	2 8 0
K.	...	7½	Tiled ...	K. ...	291	1,265	0 4 0
K. P.	...	10	Country tiled ...	" ...			
"	...	10	Arch ...	" ...			
"	...	6	Country tiled ...	" ...	2,770	5,540	0 8 0
"	...	6	" ...	" ...			
K.	...	6	" ...	" ...			
K. P.	...	22,19	Tiled arch ...	Brick on edge ...	7,474	2,737	2 0 0
P.	...	13					
		130	Arch ...	" ...	4,720	4,720	1 0 0
"	...	17½,15½	Arch country ...	Terraced ...	10,510	7,020	1 8 0
K. P.	...	8	Tiled ...	K. ...	189	504	0 6 0
K.	...						
P.	...	16,12	Terrace arch on beams.	P. K. ...	31,540	15,770	2 0 0 tahsíli 17,923 Police station 13,617
K. P.	...	20	" ...	Terraced ...	16,770	11,180	1 8 0
"		14	Arch beams girder.	Flag stone ...	7,774	5,183	1 8 0
P.	...	20,12	Terrace and arch on beams.	Terraced ...	9,036	5,985	1 8 0
		15	Terrace on beams ...	" ...	5,290	2,070	2 8 0
P. P.	...	11	Tiled arch ...	K. ...	1,209	806	1 8 0
P.	...	12	Arch on beams	Terraced ...	2,809	1,445	2 0 0
P. M.	...	21,15½	Arch on girder ...	Flagged ...	12,541	7,531	1 11 0
Kankar	...	11	Iron sheet ...	Concrete ...	5,473	5,580	1 0 0
"	...	12	" ...	" ...	2,521	2,760	1 0 0
K. P.	...	14½	Terrace ...	T. ...	3,317	3,337	1 0 0
"	...	14½	" ...	" ...	1,241	1,241	1 0 0
Kankar	...	7	Allahabad tiled ...	K. ...	18,741	29,986	0 10 0
"	...	7	Iron sheet ...	T. ...	3,080	3,080	1 0 0
"	...	15	" ...	" ...	4,413	4,413	1 0 0
"	...	7	Allahabad tiled ...	K. ...	1,638	3,276	0 8 0
"	...	6	" ...	Concrete ...	770	1,540	0 8 0
"	...						
K. P.	...	19,16	Terrace on beam ...	Terrace and stone ...	15,382	7,666	2 9 0
P.	...	15½	Arch tied ...	Terraced ...	2,620	2,460	1 1 0
"	...	15½	Arch ...	" ...	2,620	2,460	1 1 0
"	...	15½	" ...	" ...			
"	...	15	" ...	K. ...	1,099	980	1 4 0
"	...	15½	" ...	Terraced ...	2,620	2,460	1 1 0
"	...	16½	" ...	K. ...	1,110	1,540	0 12 0
K.	...	16½	Allahabad tiled ...				
"	...	16½	" ...	" ...	1,110	1,540	0 12 0
"	...	15½	Tied arch ...	" ...	1,099	880	1 4 0
"	...	15½	" ...	" ...	1,099	880	1 4 0
"	...						
P.	...	19	" ...	T. and K. ...	3,983	4,889	0 13 0
"	...	13½	Terrace on beam ...	Terraced ...	3,099	2,552	1 8 0
K. P.	...	15	Allahabad tiled ...	K. ...	2,319	4,639	0 8 0
K.	...	13	Country tiled ...	" ...	946	1,892	0 8 0
"	...	15	Allahabad tiled ...	" ...	308	616	0 8 0
"	...	15	" ...	" ...	374	748	0 8 0
K. P.	...	12	Terrace on beam ...	Terraced ...	1,858	1,858	1 0 0
K.	...	16	Allahabad tiled ...	K. ...	1,353	2,706	0 8 0
"	...	12	" ...	" ...	1,309	2,618	0 8 0
"	...	16	Tied arch ...	" ...	1,823	608	3 0 0
"	...	14	Allahabad tiled ...	" ...	814	1,628	0 8 0
P. M.	...	15	Arch ...	K. T. ...	5,464	2,727	2 0 0
P.	...	19	" ...	Terraced ...	8,990	4,495	2 0 0
"	...	15	Tiled ...	" ...	4,543	2,022	1 8 0
"	...	18	Arch ...	K. ...	2,780	1,390	2 0 0

PUBLIC WORKS DEPARTMENT, NORTH-WESTERN PROVINCES AND OUDH.

COMPARATIVE COST OF CERTAIN SELECTED BUILDINGS—(*continued*).

Abbreviations:—P. denotes pucka. P. O. pucka outer. K. P. kutcha pucka. P. K. P. pucka kutcha pucka. K. P. K. and K. P. pucka kutcha and kutcha pucka. R. rubble. R. P. rubble stone pucka P. S. pucka stone. Fl. flagged. S. Fl. stone flag flooring. C. I. 22° corrugated iron. 22 M. kutcha masonry. R. M. rubble masonry. K. T. kankar and tar. B. E. brick on edge. kutcha. In. P. inner pucka. F. M. flat mud. M. P. mud plaster. T. terraced. Pl. planked. P. T. pent tiled. masonry. D. S. dry stone. S. S. stone slabs. C. concrete. R. K. P. rubble stone in clay. B. F. brick flat. B. W. G. In. inner. O. outer. K. kankar. P. M. pucka masonry. P. B. pucka brickwork. M. masonry. K. F. B. flat bricks. J. A. Jack arches. T. A. tied arch. A. arched. S. stone.

Division.	Locality.	Name of building.	Single or double storey.	Foundation.	Feet.	Plinth.	Feet.	Walls to top of wall of plate.	Feet.	Roof.	Floor.	Cost. Rs.	Area. Supl. feet.	Rate per superficial foot. Rs. a. p.
		FIRST CIRCLE—(*continued*).												
MEERUT—(*concluded*).	Hadnaganj	Police station	Single	P.	3		2½	P.	13	Arch	K. T.	5,811	5,205	1 2 0
	Sikandra Rao	Tahsíli	Do.	Kankar	2	P.	3	"	10	T. P.	T.	7,498	4,800	1 8 8
	Ditto	Tahsíldári house	Do.	K. P.	2½	K. P.		K. P.	10	K.	K.	2,925	4,014	0 11 7
	Ditto	Chaprassis' lines	Do.	"	2			"	8	K. tiled	"	1,170	2,580	0 6 10
	Ditto	Ditto	Do.	"	2		2½	"	8	"	"	449	760	0 9 6
	Ditto	Police station	Do.	C.	2	Kankar	2	P.	11	P. T.	T.	6,769	6,649	1 0 3
	Ditto	Road inspection bungalow	Do.	P.	2	P.		K. P.	12	Thatched	"	2,391	1,680	1 6 9
	Ditto	Outhouses	Do.	K. P.	2			"	8	Tiled	K.	675	1,120	0 11 0
	Ditto	Latrines	Do.	"	2		1	"	8	"	"	129	154	0 13 6
	Háthras Railway station.	Post office Railway station	Do.	Kankar	1	Kankar		Kankar and brick	12	T.	B. F.	3,881	1,570	2 2 5
	Dehra Dún	Combined Post and Telegraph Office,	Do.	P.	2½	P.	1	P.	16	Arched	T.	6,808	3,431	2 0 0 very nearly,
	Ditto	Outhouses	Do.	"	1½	"	1	"	8	"	Earthen	1,394	891	1·54
	Ditto	Latrines ditto	Do.	"	2	"	½	"	8	"	T.	148	84	1·76
	Ditto	Small Cause Court	Do.	"	3	"	1½	"	19 ft. and 16½	"	K. and T.	1,106	4,517	2·46
	Muzaffarnagar	Post office	Do.	"	3	"	1	"	15½	J. A.	B. E.	4,969	2,449	2·02
	Jansath	Tahsíli and Police	Do.	K. P.	3	K. and P.	2	K. P.	26½	T. A.	K.	12,089	22,137	0·54
	Muzaffarnagar	Zila school	Do.	"	2¾	P.	1½	P.	13½	A.	T.	3,290	3,994	0·82
	Shamli	School	Do.	P.	2	"	1	"	15	T. A.	S. S.	6,702	2,331	2·87
	Kairana	Tahsíli	Do.	C. and P.	1½ & 1	"	2	K. P.	16–12	"	P. M.	13,012	6,082	2·14
	Ditto	Munsifi	Do.	"	1½ & 1 P.	"	1½	"	19	"	Stone	5,942	2,532	2·34
	Muzaffarnagar	Dispensary	Do.	P.	2¼	"	1	P.	13	"	S. S.	19,079	9,214	2·07
	Ditto	Church	Do.	"	2	"	1½	"	10	S.	P. T.	4,802	1,025	4·67
	Gordhanpur	Police station	Do.	K. P.	3	"	1½	"	8	P. Arched	K.	3,967	4,450	·89
	Khatowli	Ditto	Do.	"	2	"	1	"	10	P. T.	"	4,126	3,751	1·10
	Shahpur	Ditto	Do.	"	2	"	2	"	12	"	"	4,479	1,870	2·39
	Charthawal	Ditto	Do.	K. P.	2	"	1	"	12	"	"	3,348	2,434	1·37
	Chowsana	Ditto	Do.	P.	4½	"	1½	"	9½	Arched	T. floor	3,023	2,497	1·21
	Kairana	Ditto	Do.	"	3	"	1½	"	12½	Arch	"	4,114	3,671	1·12
	Muzaffarnagar	Dák Bungalow	Do.	"	2			K. P.	15	Thatch	C.	2,000	1,607	1·24
	Baghpat	Tahsíli School	Do.	C. P.	2	"	1½	P. and K. P.	16	T. A.	F. L.	3,112	1,690	1 13 6
	Moradnagar	Halkabandi School	Do.	C.	1½	K. P.	1½	"	11	"	M.	997	1,043	0 15 3
	Mowana	Dispensary	Do.	C. and P.	2	P.	1	"	13½	"	B. E.	2,635	2,260	1 9 7
		Ditto cook-house	Do.	C.	1½	K. P.	1	K. P.	8 × 11	P. T. Country	M.	218	155	1 6 6
		Ditto latrine	Do.	"	1½	"	1	"	8 × 11	"	"	218	155	1 6 6
	Meerut	Distillery liquor godown	Do.	C. and P.	3	P.	1	P. and K. P.	10½	T. A.	B. E.	1,487	1,100	1 5 8
		Guard room	Do.	"	2½	"	¾	"	10¾	"	M.	967	673	1 2 3
		Muharrir's quarter	Do.	"	2½	"	¾	P. K. P.	10¾	"	"	679	497	1 6 0
		Still shed	Do.	P. K. and K. P.	1¾	K. P.	½	K. P.	7–12	P. T. Country	"	761	1,203	0 10 1
		Fermenting shed	Do.	"	1¾	"	¾	" {B. Wall 13, C. Pillar 9, F. do. 6}	13 / 9 / 6	"	"	744	2,000	0 6 0
	Ditto	Police Inspector's quarters	Do.	C. and P.	2½	P.	1	K. P. and P.	18	T. A.	"	4,030	2,635	1 8 6
		Do. servants' house	Do.	"	2½	"	½	"	10	"	"	1,188	997	1 3 1
		Do. cook-room	Do.	"	2½	"	½	K. and P.	10	"	"	282	173	1 10 1
	Jarcha	Police station (3rd class) office and havaláts, &c.	Do.	C.	1½	P. masonry	1	P. Masonry	12	Vaulted Terrace	K.	4,161	913·75	1 12 2
		Constables' lines and barracks	Do.	"	1½	"	1	K. P.	8¾	"	"		1,445	
	Khanpur	Police stations (3rd class) office and havaláts, &c.	Do.	"	1½	P.	1	P.	12	"	"	4,200	935·15	1 11 5
		Constables' lines and barracks	Do.	"	1½	"	1	P. and K. P.	8¾	"	"		1,509	
		Police stations (1st class) police and havaláts, &c.	Do.	"	2	"	1	P.	10	"	"	4,400	1,091·25	1 4 2
		Constables' lines and barracks	Do.	"	2	"	1¼	K. P.	8½	"	"		2,389	
	[illegible]		Do.	C. P. B.	1½	P. B.		"	18	Arched on girder	Stone flagged	6,091	2,516	2·42

PUBLIC WORKS DEPARTMENT, NORTH-

COMPARATIVE COST OF CER

Abbreviations:—P. denotes pucka. P. O. pucka outer. K. P. kutcha pucka. P. K. P. pucka kutcha pucka. K. P. K. and K. P. pucka kutcha and kutcha pucka. R. rubble. R. P. rubble stone pucka P. S. pucka stone. Fl. floored. S. Fl. stone flag flooring. C. I. 22° corrugated iron. 22 M. kutcha masonry. R. M. rubble masonry. K. T. kankar and tar. B. B. brick on edge.

Division.	Locality.	Name of building.	Description and height							
			Single or double storey.	Foundation.			Plinth.			
						Feet.				Feet.
		FIRST CIRCLE—(*continued*).								
		Agra district.								
	Agra ...	3rd class police station at Dauki—								
		Office block	Single	...	C. and P. B.	...	2½	P. B.	...	1
		Constables' lines ...	Do.	...	,,	...	2½	,,	...	1
		Latrines	Do.	...	C.	...	1	,,		1½
		Muttra district.								
	Muttra ...	1st class police station at Buldeo—								
		Office block	Do.	...	C.	...	1½	,,	...	1
					P. brick	...	1			
		Constables' lines ...	Do.	...	,,	...	1	,,	...	1
		Cook-room	Do.	...	,,	...	1	,,	...	½
	Ditto ...	Munsifi at Mahaban—								
		Main room	Do.	...	C.	...	1½	,,	...	1½
		Verandah	Do.	...	P. Brick	...	1	,,	...	1½
AGRA ...		*Etah district.*			,,	...	1	,,		
	Etah ...	Opium buildings—								
		Opium godown ...	Do.	...	P. B. K. and C.,		2½	,,	...	1
		Cook-house	Do.	...	,,	...	1½	,,	...	1
		Jail buildings—								
		Hospital ...	Do.	...	C. and P. B.	...	2 & 2½	P. and B.	...	1½
	Do. ...	2nd class police station at Jaithra ...	Do.	...	,,	...	2½	P. B.	...	1
		Etáwah district.								
	Etáwah ...	Tahsili Auraiya								
	Ditto ...	Munsif at Etáwah ...	Do.	...	,,	...	2½	,,	...	1
	Ditto ...	Church at Etáwah ...	Do.	...	,,	...	3	,,	...	1½
			Do.	...	,,	...	4½	,,	...	1
		Fatehgarh district.								
	Fatehgarh ...	1st class police station at Gursahaiganj—								
	Ditto ...	Office block								
	Ditto ...	Constables' lines ...	Do.	...	P. B.	...	1	,,	...	1
	Ditto ...	Latrines ...	Do.	...	,,	...	1	,,	...	1
	Ditto ...	District Engineer's office ...	Do.	...	C.	...	1	,,	...	½
		Jalaun district.	Do.	...	P. B.	...	1½	,,	...	1½
	Kilpi ...	Tahsili								
	Do. ...	Police station	Do.	...						¼
	Orai ...	Post-office	Do.	...			3			1
	Do. ...	Sessions court	Do.	...			3½			6
	Do. ...	Deputy Commissioner's kutcherry ...	Do.	...			2½			1½
	Kunch ...	Deputy Collector's quarters	Do.	...			2			2½
	Do. ...	Combined tahsili and thana ...	Do.	...			5			2½
	Orai ...	District Jail—	Do.	...			3			1½
JHANSI ...		Barrack No. 1	Do.	...			4			1
		Do. No. 2	Do.	...			3			1
		Do. No. 3	Do.	...			3			1½
		Female barrack	Do.	...			1½			1½
		Civil-jail do.	Do.	...			2½			1
		Havalat do.	Do.	...			2			¾
		Factory	Do.	...			1½			½
		Lunatic asylum	Do.	...			2			2
		Solitary cells	Do.	...			1			1
		Office and gate	Do.	...			2½			
			Double	...			2			

WESTERN PROVINCES AND OUDH.

TAIN SELECTED BUILDINGS—(*continued*).

kutcha. In. P. inner pucka. F. M. flat mud. M. P. mud plaster. T. terraced. Pl. planked. P. T. pent tiled. masonry. D. S. dry stone. S. S. stone slabs. C. concrete. R. K. P. rubble stone in clay. B. F. brick flat. B. W. G. In. inner. O. outer. K. kankar. P. M. pucka masonry. P. B. pucka brickwork. M. masonry. K. F. B. flat bricks. J. A. Jack arches. T. A. tied arch. A. arched. S. stone.

of walls, &c.

Wall to top of wall of plate.		Roof.	Floor.	Cost.	Area.	Rate per superficial foot.
	Feet.			Rs.	Supl. feet.	Rs. a. p.
P. B.	12	Tied arch ...	Brick on edge ...	1,656	900	1 13 5
K. P. B.	8½	,, ...	Kankar ...	2,392	1,444	1 10 3
K. P.	6	Open ...	,, ...	113	127	0 14 3
P. B.	Room 12′ verandah 9½ to tie rods.	Tied arch ...	Stone flag ...		1,027	
K. P. B.	Room 9½ verandah 8½ to tie rods.	,, ...	Kankar ...	6,498	1,092	1 13 7
,, ...	8 to tie rods ...	,, ...	,, ...		430	
K. P. and P.	20	Jack arches on girder,	Stone flag ...			
P. B.	14	Jack arch on rails ...	,, ...	6,293	2,852	2 7 5
P. B. K.	20 and 11 to tie rods.	,, ...	Stone flag ...	10,691	5,869	1 13 5
K. P. B.	8 ditto ...	,, ...	Kankar ...	314	243	1 4 8
P. B. and K. P. B. ...	14 & 10 do....	,, ...	Stone flag ...	5,302	3,538	1 8 0
,, ...	14 and 11·3	Tied arch ...	P. B. and kankar ...	5,327	3,485	1 8 5
P. B.	10	Terraced ...	Terraced and K. ...	15,081	11,016	1 5 0
,, ...	15½	Vaulted ...	Terraced ...	5,050	2,891	1 12 0
,, ...	15	,, ...	,, ...	10,800	3,998	2 11 2
K. P.	12	Tied arch ...	Brick on edge ...	2,176	1,062	2 0 9
,, ...	8½	,, ...	Kankar ...	3,636	2,568	1 6 9
P. B.	6	Open ...	,, ...	104	127	0 13 3
,, ...	19′	Terraced ...	Terraced ...	4,452	1,719	2 9 2
...	25	P. T. ...	P. T. and B. F. ...	...	14,308	...
...	22	,, ...	Stone and P. T. ...	18,200	18,689	0 15 5
...	12½	Arched roof ...	B. E. and stone ...	5,078	4,548	1 1 10
...	20½	P. T. and tiled ...	P. T. ...	...	13,508	...
...	29½	Tiled and P. T. ...	,, ...	67,671	20,900	3 3 7
...	18½	Tiled and arched roof,	,, ...	2,738	6,160	0 7 1
...	17½	P. T. ...	,, ...	15,740	23,403	0 8 0
...	17	Tiled ...	K. ...	Not known,	4,176	
...	17	,, ...	,, ...	Ditto ...	1,690	
...	16	,, ...	,, ...	Ditto ...	1,690	
...	17	,, ...	,, ...	Ditto ...	1,890	
...	18	,, ...	,, ...	Ditto ...	1,025	
...	15	,, ...	,, ...	Ditto ...	1,250	
...	15	,, ...	,, ...	Ditto ...	3,475	
...	15½	,, ...	,, ...	Ditto ...	750	
...	17	,, ...	,, ...	Ditto ...	3,216	
...	18	,, ...	,, ...	Ditto ...	3,565	
...	23½	P. T. and tiled ...	P. T. ...	Ditto ...	1,750	

PUBLIC WORKS DEPARTMENT, NORTH-WESTERN PROVINCES AND OUDH.

COMPARATIVE COST OF CERTAIN SELECTED BUILDINGS—(*continued*).

Abbreviations:—P. denotes pucka. P. O. pucka outer. K. P. kutcha pucka. P. K. P. pucka kutcha pucka. K. kutcha. In. P. inner pucka. F. M. flat mud. M. P. mud plaster. T. terraced. Pl. planked. P. T. pent tiled. P. K. and K. P. pucka kutcha and kutcha pucka. R. rubble. R. P. rubble stone pucka masonry. D. S. dry stone. S. S. stone slabs. C. concrete. R. K. P. rubble stone in clay. B. F. brick flat. P. S. pucka stone. Fl. flagged. S. Fl. stone flag flooring. C. I. 22° corrugated iron. 22 B. W. G. In. inner. O. outer. K. kankar. P. M. pucka masonry. P. B. pucka brickwork. M. masonry. K. M. kutcha masonry. R. M. rubble masonry. K. T. kankar and tar. B. E. brick on edge. F. B. flat bricks. J. A. Jack arches. T. A. tiel arch. A. arched. S. stone.

Division.	Locality.	Name of building.	Description and height of walls, &c.										Cost.	Area.	Rate per superficial foot.
			Single or double storey.	Foundation.			Plinth.			Wall to top of wall of plate.	Roof.	Floor.			
					Feet.			Feet.		Feet.			Rs.	Supl. feet.	Rs. a. p.
		FIRST CIRCLE—(*concluded*).													
		Jalaun district—(concluded).													
Jhánsi—(concluded).	Jalaun ...	Tahsíli ...							3½						
		Police station	Double ...	...	6½	...		3							
	Madhogarh ...	Road bungalow	Single ...	...	3	...		2							
		Tahsíli	Do. ...	...	4	...		6							
			Do. and double.	...	3	...									
		Lalitpur district.													
	Lalitpur ...	Deputy Commissioner's new kutcherry,	Single ...	C. ...	3	R. in lime ...		3		12 & 24	Tiled P. T. ...	P. T. ...	Not known.	7,068	
		Old portion... ...		R. in lime ...	2			3		1 & 10 & 8, 16	P. T. and tiled ...	K. P. ...	Ditto.	7,600	
	Ditto ...	Police barrack for treasury guard ...	Do. ...	Ditto ...	2	,, ...		2		9 & 18	Thatched ...	P. T. ...	Ditto.	4,720	
	Ditto ...	Suitors' shed	Do. ...	C. ...	4½ ft.	,, ...		9		13, 8 & 2·5	P. T. ,, ...	,, ...	Ditto.	9,216	
	Ditto ...	Police hospital	Do. ...	,, ...	1½ ft.	,, ...		1½							
	Ditto ...	Tahsíli	Do. ...	,, ...	1½ ft.	,, ...		1½							
	Ditto ...	Police office and reserve lines ...	Do. ...	P. brick work...	2	P. brick work...		3							
	Mahraoni ...	District Board's office	Do. ...	R. in lime ...	3	R. in lime ...		3							
		Police station	Do. ...	Ditto ...	3	,, ...		1½							
	Ditto ...	Middle class school	Do. ...	R. in lime ...	3½	,, ...		1							
			Do. ...	C. ...	1½	,, ...									
	Narhat ...	Police station office		R. in lime ...	2			1							
	Ditto ...	Lime ...	Do. ...	C. ...	3	,, ...		1							
	Gona ...	Inspection bungalow		R. in lime ...	1½										
	Lalitpur ...	Zila school	Do. ...	D. S. ...	2	,, ...		1							
	Ditto ...	Boarding house	Do. ...	P. ...	2	P. Brick ...		1							
	Ditto ...	Dead-house	Do. ...	C. ...	5	,, ...		1							
				P. brick ...	2										
			Do. ...	C. ...	1½	P. Brick ...		1							
				P. brick work ...	3										
		Jhánsi district.													
	Jhánsi ...	District Engineer's office and bungalow.	Do. ...	P. B. on C. ...	2½	P. B. ...		2							
	Ditto ...	Outhouses, District Engineer's bungalow.	Do. ...	,, ...	2½	,, ...		1½							
	Ditto ...	Cook-house ditto ditto,	Do. ...	P. B. masonry on C.	2½	P. with bricks...		1½							
	Ditto ...	Deputy Commissioner's kutcherry ...	Do. ...	P. B. ...	7½	P. B. ...		3							
	Ditto ...	Commissioner's kutcherry ...	Do. ...	K. P. rubble and P. B.	5	Plinth included in the foundation.		...							
	Man Ghát Kotra ...	Assistant Commissioner's kutcherry...	Do. ...	P. B. on C. ...	5	P. with brick ...		2							
		Police station	Do. ...	,, ...	4	P. B. ...		½							
		SECOND CIRCLE.													
		Kumaon district.													
	Almora ...	Junior Assistant Commissioner's and Deputy Collector's Court.	Do. ...	Coursed rubble masonry set in clay on soft rock.	4 × 3	Coursed rubble masonry set in clay.		2½ × 1½							
	Ditto ...	New tahsíli				...		2½ × 2							
	Ranikhet ...	Civil Treasury	Double ...	On soft rock ...	3 × 2			2 × 2							
			Single ...	,, ...	2½ × 2	Coursed rubble masonry set in clay.		2 × 2							
KUMAON ...	Ditto ...	Post-office				P. pointed ...		2 × 1½							
	Ditto ...	Dead-house	Do. ...	,, ...	3 × 3	,, ...		2½ × 1							
	Ranmagar ...	Post-office	Do. ...	,, ...	2½ × 2	,, ...		2½ × 1							
			Double ...	,, ...	3 × 2	,, ...									
	Pauri ...	Nazarat		on boulder formation.				1							
	Ditto ...	Dák bungalow	Single ...	Rubble masonry,	4	,, ...		½							
	Ditto ...	Dák outhouses	Do. ...	R. M. ...	2½	,, ...		½							

PUBLIC WORKS DEPARTMENT, NORTH-WESTERN PROVINCES AND OUDH.

13

COMPARATIVE COST OF CERTAIN SELECTED BUILDINGS—(*continued*).

Abbreviations :—P. denotes pucka. P. O. pucka outer. K. P. kutcha pucka. P. K. P. pucka kutcha pucka. K. kutcha. In. P. inner pucka. F. M. flat mud. M. P. mud plaster. T. terraced. Pl. planked. P. T. pent tiled. P. K. and K. P. pucka kutcha and kutcha pucka. R. rubble. R. P. rubble stone pucka masonry. D. S. dry stone. S. S. stone slabs. C. concrete. R. K. P. rubble stone in clay. B. F. brick flat. P. S. pucka stone. Fl. flagged. S. Fl. stone flag flooring. C. I. 22° corrugated iron. 22 B. W. G. In. inner. O. outer. K. kankar. P. M. pucka masonry. P. B. pucka brickwork. M. masonry. K. M. kutcha masonry. R. M. rubble masonry. K. T. kankar and tar. B. E. brick on edge. F. B. flat bricks. J. A. Jack arches. T. A. tied arch. A. arched. S. stone.

Division.	Locality.	Name of building.	Single or double storey.	Foundation.	Foundation, Feet.	Plinth.	Plinth, Feet.	Wall to top of wall of plate.	Wall, Feet.	Roof.	Floor.	Cost, Rs.	Area, Supl. feet.	Rate per superficial foot, Rs. a. p.
		SECOND CIRCLE—(*continued*).												
		Unao district.												
LUCKNOW ...	Unao	Village school at Indamau	Single ...	Kankar ...	1½	K. P. ...	¼	K. ...	9	F. M. ...	K.	120	408	0·29
	Ditto ...	Dead house Unao ...	Do. ...	C. ...	1½	P.	¼	K. P. and P. ...	12	Jack arched on rolled iron beam.	Brick on edge ...	774	402	1·92
	Ditto	Committee building and District Engineer's office.	Do. ...	C. and P. brick work.	3	" ...	1	K. P. ...	14	Double Allahabad tiling.	B. F. ...	2,403	2,541	·981
	Ditto ...	Middle class school at Bangarmau ...	Do. ...	C. ...	1½	" ...	2	" ...	8	Single ditto ...	Kankar ...	4,329	3,796	1·14
	Ditto ...	Dispensary and consulting room at Hasanganj.	Do. ...	C. and K. P. ...	2	K. P. ...	1	K. and K. P. ...	11	Country tiling ...	" ...	697	1,006	·69
	Ditto ...	Cooking shed, police lines at Unao ...	Do. ...	C. ...	1½	P. ...	½	K. P. ...	7	Corrugated iron roofing.	K. ...	750	883	·85
		Lucknow district.												
	Lucknow ...	Shed for males in Lunatic Asylum...	Single ...	" ...	2	" ...	2	" ...	10	Single P. T. ...	B. F. ...	1,364 8 0	998	1·367
	...	Shed for females in Lunatic Asylum,	Do. ...	" ...	2	" ...	2	" ...	10	" ...	" ...	835 10 6	634	1·323
	...	Witness shed for City Magistrate's office.	Do. ...	Sand and C. ...	8½ / 1½	"	2	P. ...	17	Jack arches on Oudh and Rohilkhand Rails.	Brick on edge ...	3,367 7 10	2,209	1·524
	...	Steeping shed at distillery ...	Do. ...	C. ...	2	*Nil.* ...	...	Old rails ...	7	C. I. 22 B. W. G. ...	Rammed earth ...	3,464	3,770	·917
		Bara Banki district.												
	Bara Banki ...	Deputy Commissioner's kutcherry, new,	Single ...	C. and P.	1 / 1	P.	1½	Main ... / Verandah ...	19 / 11	Vaulted ...	Brick on edge ...	15,336	8,513	1·802
	...	Latrine	Do. ...	C. ...	1½	"	½	P. K. ...	8½	" ...	Kankar ...	489	503	·969
	Fatehpur ...	Tahsili at	Do.	C. main ... / P. Verandah ...	2 / 1½ / 2	"	1	P. and K. P. ...	13	" ...	B. F. ...	14,555	7,471	1·948
	...	Latrine	Do. ...	C. ...	1½	" ...	½	" ...	8½	" ...	Kankar ...	489	503	·969
	Ramsanehi ...	Verandah to tahsil	Do. ...	" ...	2	" ...	2	Rails ...	9	Jack arches on rails,	B. F. ...	618	376	1·646
	Bahrámghát ...	Outhouses to Dák Bungalow ...	Do. ...	K. P. ...	¾	K. P. ...	1½	M. ...	8	P. T. ...	K. ...	727	1,036	·719
	Hydergarh ...	Rest-house	Do. ...	K. ...	1	K. ...	1	K. ...	12½	" ...	B. F. ...	492	1,260	·391
	...	Outhouses	Do. ...	" ...	1	" ...	½	" ...	7	" ...	K. ...	66	510	·130
	...	Cook-house	Do. ...	" ...	1	" ...	½	" ...	7	" ...	" ...	58	319	·125
	Kursi ...	Rest-house	Do. ...	K. M. ...	1	K. M. ...	1	Main ... / Verandah ...	12½ / 7	" ...	B. F. ...	474	1,260	·375
	Fatehpur ...	Ditto	Do. ...	" ...	1	" ...	1	Main ... / Verandah ...	12½ / 7	" ...	" ...	541	1,260	·427
	...	Outhouses	Do. ...	M. ...	1	M. ...	½	Mud ...	8	" ...	K. ...	52	286	·182
		Kheri district.												
	Lakhimpur ...	Staging Bungalow	Do.	C. ... / P. ...	2 / ½	P. 1st	1½	P. ... / K. P. ...	14½	T. A. ...	Chowka tiles ...	4,421	2,418	1·85
	...	Inspector of School's office ...	Do.	C. 1st ... / P. ...	2 / 1	"		P. 2nd ... / K. P. 2nd ...	16	" ...	T. ...	3,703	2,673	1·39
	...	Zila school boarding-house ...	Do.	C. ... / C. K. P. 2nd ...	1 / 1	K. P. 2nd		" ...	15	S. T. for verandah / D. T. for room as sesna timber.	F. B. ...	5,057	4,085	1·24
	Aurangabad ...	Middle class school ...	Do. ...	C. ...	1½	P. 1st ...	2	" ...	13	S. T. and sal timber...	" ...	2,388	1,617	1·48
	Lakhimpur ...	Outhouses to Deputy Inspector's office,	Do. ...	P. B. ...	1½	P. B. ...	1	K. B. ...	7	S. T. Jamoon timber,	K. ...	632	1,183	1·54
	...	Branch school	Do. ...	B. K. ...	1	"		K. P. ...	10	Ditto ...	" ...	863	1,921	1·45
		Sitapur district.												
	Sitapur ...	Sadár Dispensary	Do.	C. ... / P. ...	1 / 1	P. ...	1½	K. P. wall P. arching flat roof on sál beams.	17	Terraced ...	(F. chowka) ...	8,604	6,412	1·3
	Sidhauli ...	Branch Dispensary	Do.	C. ... / P. ...	1 / 1	" ...	1	K. P. roof tiled on sáintha rolls; floor flagged.	12	Tiled ...	" ...	2,700	2,033	1·3
	Sitapur ...	Town Hall	Do.	C. ... / P. ...	1½ / 1	" ...	2	K. P. roofing with scale pattern tile ceiling with teak planks, flooring with tesselated tile.	22	" ...	" ...	18,200	5,558	2·3

PUBLIC WORKS DEPARTMENT, NORTH-

COMPARATIVE COST OF CER

Abbreviations :—P. denotes pucka. P. O. pucka outer. K. P. kutcha pucka. P. K. P. pucka kutcha pucka. K. P. K. and K. P. pucka kutcha and kutcha pucka. R. rubble. R. P. rubble stone pucka P. S. pucka stone. Fl. flagged. S. Fl. stone flag flooring. C. I. 22° corrugated iron. 22 M. kutcha masonry. R. M. rubble masonry. K. T. kankar and tar. B. E. brick on edge.

Division.	Locality.	Name of building.	Description and height of walls, &c.									
			Single or double storey.	Foundation.			Plinth.			Wall to top of wall of plate.	Roof.	Floor.
		SECOND CIRCLE—(*concluded*).				Feet.			Feet.	Feet.		
ROHILKHAND—(*concluded*).	Budaun	Post-office	Single	P.		2	P. masonry		1	Wall K. P.		
	Ditto	Collector's kutcherry, Budaun	Do.	„		4	P.		2	„ 13	Arched	Brick on edge
	Ditto	And additions to treasury guard	Do.	„		2′	P.		9″	„ 19½	Terraced on timber	Terraced
	Gunaur	Tahsíli at Budaun office	Do.	„		11″	P.		2½	„ 15½	Tie arched	K.
	Budaun	Tahsildár and Peshkár's quarters	Do.	Sand and C.		2	P.		1′-6″	K. P. 19½	Arched	Brick on edge
	Ditto	Circuit house	Do.	P.		2	P. masonry		2	P. 14′-3″	Tie arched	Flat brick
	Ditto	Munsifi Budaun	Do.	„		3	P.		2½	K. P. 20	Terrace on timber	Terrace
	Ditto	Ditto at Bisauli	Do.	K. P.		2½′	K. P.		3	P. 24	Arch timber	„
	Ditto	Church at Budaun	Do.	P.		2½′	P.		2′-6″	„ 14	Tile	Brick on edge
	Ditto	High School, Budaun	Do.	P. brickwork		20	P.		2	„ Main 25½ Ver. 14½	Arched	Terraced
	Ditto	Boarding house	Do.	„		11½	P.		1½	„ 17	Terrace on timber	Brick on edge
	Pilibhít	Tahsíli School, Budaun	Do.	„		21″	P.		1½	K. P. 8	Arched	Tiled floor
		Munsifi at Pilibhít	Do.	C.		2½	P.		2	„ 18	1 Arched and 2 tiled,	„
	Ditto	Havalát at Pilibhít								„ 20	Jack arch over iron grider and rail.	B. F.
		Male and female barracks										
		Ditto cook house	Single	C.		2	P.		1	„		
		Ditto latrine	Do.	„		2	P.		1	„ 19	P. T.	Mud
	Pilibhít	Guard room	Do.	„		2	P.		1	„ 10	„	„
		Collector's kutcherry	Do.	„		2	P.		1	P. „ 10	„	„
			Do.	C. and P.		2	P.		2	„ 12½	„	„
	Ditto	Police hospital								K. 20 up to top.	Jack arches on girders in main room and beams in verandah.	B. F.
	Ditto	Treasury guard room								K. P. 13½	P. T.	„
	Ditto	District Board's office	Do.	„		1½	P.		2	„ 15½	„	Mud
	Ditto	Police Lines, Pilibhít	Do.	„		2	P.		1	„ 16	P. T. and T. The roof of two main rooms is of single Allahabad tile and two side rooms together with verandah of Jack arches over E. I. Rails.	B. F.
		THIRD CIRCLE.										
		Fyzabad district.								„		
	Milkipur	VII Class Post-office and Runners' quarters.		C.		2	P.		1	„ 8½	Arched	Mud
	Tanda	Tahsíli		P.		½				P. and K. P.		
	Ditto			C.		3	P.		1		Tied arch	Kankar and tar
	Ditto	Addition to Tahsíldár's Court room,		P.		1½				P. and K. P.		
	Ditto	Treasury guard room and cook room,		K.			K. and K. P.		½			
FYZABAD	Akbarpur	Tahsíli		Kankar		5	P.		1½	P. and K. P.		
	Ditto	Treasury		C.		2						
				P.		1						
	Ditto	Thána		Kankar		5	P.		1½	P		
				C.		2						
	Ditto			P.		1						
	Ditto	Akbarpur thána, stable and cook house,		Kankar		5	P.		1	P. and K. P.		
		Gonda district.		C.		2						
	Balrampur			P.		1						
	Ditto	VII class Post-office								P. and K. P.		
		Runners' quarters		C.		2½	P.					
				P.		1						

15

WESTERN PROVINCES AND OUDH.

TAIN SELECTED BUILDINGS.

kutcha. In. P. inner pucka. F. M. flat mud. M. P. mud plaster. T. terraced. Pl. planked. P. T. pent tiled. masonry. D. S. dry stone. S. S. stone slabs. C. concrete. R. K. P. rubble stone in clay. B. F. brick flat. B. W. G. In. inner. O. outer. K. kankar. P. M. pucka masonry. P. B. pucka brickwork. M. masonry. K. F. B. flat bricks. J. A. Jack arches. T. A. tied arch. A. arched. S. stone.

Cost.	Area.	Rate per superficial foot.
Rs.	Suprl. feet.	Rs. a. p.
4,800	2,400	2 0 0
53,326	26,941	2 0 0
5,933	2,656	1 14 0
5,050	2,651	2 2 1
4,772	3,799	1 4 5
14,245	6,381	2 4 0
12,344	5,496	2 3 4
2,475	2,475	1 0 0
7,020	2,340	3 0 0
9,622	5,680	1 11 0
5,058	3,479	1 7 0
7,423	3,232	2 4 8
5,490	2,570	2 2 2
...	...	...
2,324	1,569	1 7 8
613	439	1 6 3
404	439	0 12 5
1,529	1,499	1 0 3
45,564	14,231	3 3 4
1,410	1,269	0 11 6
1,655	1,762	0 15 0
4,810	2,710	1 12 5
1,800	4,871	0 25 8
2,148	1,103 / 325	1 8 1
5,297	2,303	2 4 8
2,628	1,168	2 3 5
647	1,355	0 8 5
7,643	3,987	1 15 1
334	148	2 5 11
6,917	4,988	1 6 2
1,410	1,093	1 4 8
1,202	873	1 6 6

21

PUBLIC WORKS DEPARTMENT, NORTH-WESTERN PROVINCES AND OUDH.

COMPARATIVE COST OF CER TAIN SELECTED BUILDINGS—*(concluded)*.

Abbreviations :—P. denotes pucka. P. O. pucka outer. K. P. kutcha pucka. P. K. P. pucka kutcha pucka. K. P. K. and K. P. pucka kutcha and kutcha pucka. R. rubble. R. P. rubble stone pucka. K. P. S. pucka stone. Fl. flagged. S. Fl. stone flag flooring. C. I. 22° corrugated iron. 22 kutcha. In. P. inner pucka. F. M. flat mud. M. P. mud plaster. T. terraced. Pl. planked. P. T. pent tiled. M. kutcha masonry. R. M. rubble masonry. K. T. kankar and tar. B. E. brick on edge. masonry. D. S. dry stone. S. S. stone slabs. C. concrete. R. K. P. rubble stone in clay. B. F. brick flat. B. W. G. In. inner. O. outer. K. kankar. P. M. pucka masonry. P. B. pucka brickwork. M. masonry. K. F. B. flat bricks. J. A. Jack arches. T. A. tied arch. A. arched. S. stone.

Division.	Locality.	Name of building.	Description and height of walls, &c.						Cost.	Area.	Rate per superficial foot.
			Single or double storey.	Foundation.	Feet.	Plinth.	Feet.	Wall to top of wall of plate. Feet.	Roof.	Floor.	Rs.	Suptl. feet.	Rs. a. p.
		THIRD CIRCLE—*(concluded)*.											
		Allahabad district.											
ALLAHABAD—*(concluded)*.	Allahabad ...	Constructing a tent godown for General and Public Works Department, Secretariat.	Single ...	Concrete ... 2′ Pucka ... 1′		Pucka brick ...	1′	Pucka brick ... 15′	Brick vaulting on rolled girders for main rooms and jack arches on girders for verandah.	Stone flagged ...	14,267	6,163	2 5 0
		Constructing Police Guards' Quarters at Allahabad High Court.	Do. ...	Concrete ... 1½′ Pucka ... 1½′		...	1′						
	Karchana ...	Second class police station ...	Do. ...	Concrete ... 1½′ P. brick work ... 1½′		P. brick work ...	1′	...	Terraced on rolled iron joists.	„ ...	5,178	3,329	1 8 5
	Sirsa ...	New Treasury room	Do. ...	Concrete ...	6″	P. brick ...	0″	Second class brick ... 10′	Tied arch ...	Stone flags for office and earthen fuller lines.	4,565	4,199	1 1 5
	Allahabad ...	Muir Central College ...	Double ...	Concrete and ashlar stone.	Average depths. 9′-1½″	Ashlar stone ...	...	P. brick work ... 15′	Terraced on East Indian Rails for main roof on country tiling for verandah.	Main floor pucka verandah earthen.	614	7,060	0 14 4
	Handia ...	New district court buildings ...	Single ...	Concrete ... 1½′ P. brick work 1st class.	1½′	P. brick work 1st class.	2′	Ashlar and plain brick work, 31′—3″ for main rooms and 26′—6″ for verandah.	Vaulted brick and stone.	Flagged and mosaics,	6,28,606 (Includes the cost of the towers).	33,695	18 10 6
		New tahsili—											
		(i) Office block	Do. ...	Concrete ... 1½′ First class brick work.	1½′	1st class brick work pucka.	1½′	Main rooms, 1st class brick work. Vary from 20′ to 23′—6″.	On Jack arches ...	2″ stone flags over 6″.	71,084	26,428 s. ft.	2 11 6
		(ii) Chaprási lines ...	Do. ...	Concrete ... 1½′ Second class brick work.	1½′	Second class brick work pucka.	1′	Verandahs, 1st class P. brick work. 12½′	Arched tied ...	Concrete ...	7,053	2,333 „	3 0 5
		Bánda district.						First class brick work ... 16′	Jack arches on rolled joists.	2″ flag stones over 6″ concrete.			
	Kalinjar ...	Tahsili school	Single ...	Concrete ... 3′ P. masonry ... 3′		P. masonry ...	2½′	Second class brick work (pucka). 8½′	Tied arches ...	Rammed earth ...	3,674	1,107	1 8 2
	Bánda ...	Assistant Surgeon's quarters ...	Do. ...	Concrete ... 1½′ Pucka ... 1½′		Pucka ...	½′	Pucka ... 14½′	Tiled ...	Flagged ...	3,539	2,256	1 9 1
	Mow ...	Barracks for tahsili chaprásis' lines,	Do. ...	„ ...	2′	„ ...	1′	K. P. ... 16′	P. T.	Concrete ...	1,247	2,673	0 7 5
		Fatehpur district.						Main wall K. P. ... 9′ Verandah walls K. P. ... 6′	Country tiled ...	...	2,462	1,670	1 7 6
	Berhampur ...	New Opium Godown at... ...	Single ...	Concrete ... 1½′ Pucka ... 1½′		„ ...	1′	K. P. all walls and 1′ over top of walls pucka. ...	Single Allahabad tiled.	Rammed kankar in godowns and stone flags in dwelling rooms.	9,203	6,813	1 5 7
		Jaunpur district.											
	Badshahpur ...	Inspection house	Single ...	Concrete ... 2′ Pucka ... 1½′		„ ...	1′	Main wall K. P. ... 16½′ Top of wall pucka ... 1 Verandah wall K. P. ... 6½′	„ ...	Pucka terraced ...	1,913	1,585	1 3 4

21]

O. No. 1137

2651 Pension Department.

PROCEEDINGS OF THE MADRAS GOVERNMENT.

READ the following paper

Memorandum from the Public Works Department dated 5th Septr. 1890, No. No. 3639 C.

Order. 29. September 1890 No. 1081

Recorded.

/ true Extract /

Ag. Under Secretary to Govt.

H.C.
Please put up
the papers when
returns from W

To
The Under Secretary to Govt.
Public works Deptt.

Sent

Recorded

Wm
7.10.90

Sam

No 38392 - 5-9-90.

No 2651 W 4/9 Oct 90

Rd 1-10-90

Rec 7/10.

PUBLIC WORKS DEPARTMENT, NORTH-

COMPARATIVE COST OF CER

Abbreviations:—P. denotes pucka. P. O. pucka outer. K. P. kutcha pucka. P. K. P. pucka kutcha pucka. K. P. K. and K. P. pucka kutcha and kutcha pucka. R. rubble. R. P. rubble stone pucka P. S. pucka stone. Fl. flagged. S. Fl. stone flag flooring. C. I. 22° corrugated iron. 22 M. kutcha masonry. R. M. rubble masonry. K. T. kankar and tar. B. E. brick on edge.

Division.	Locality.	Name of building.	Description and height					
			Single or double storey.	Foundation.		Plinth.		
					Feet.			Feet.
		SECOND CIRCLE—(*concluded*).						
ROHILKHAND—(*concluded*).	Budaun	Post-office	Single	P.	2	P. masonry		1
	Ditto	Collector's kutcherry, Budaun	Do.	,,	4	P.		2
	Ditto	And additions to treasury guard	Do.	,,	2′	P.		9″
	Gunaur	Tahsíli at Budaun office	Do.	,,	11″	P.		2½
	Budaun	Tahsildár and Peshkár's quarters	Do.	Sand and C.	2 2	P.		1′-6″
	Ditto	Circuit house	Do.	P.	3	P.		2
	Ditto	Munsifi Budaun	Do.	,,	2½	P.		2½
	Ditto	Ditto at Bisauli	Do.	K. P.	2½	K. P.		3
	Ditto	Church at Budaun	Do.	P.		P.		2′-6″
	Ditto	High School, Budaun	Do.	P. brickwork	20	P.		2
	Ditto	Boarding house	Do.	,,	11½	P.		1½
	Pilibhít	Tahsíli School, Budaun	Do.	,,	21″	P.		1½
	Ditto	Munsifi at Pilibhít	Do.	C.	2½	P.		2
		Havalát at Pilibhít						
		Male and female barracks	Single	C.	2	P.		1
		Ditto cook house	Do.	,,	2	P.		1
	Pilibhít	Ditto latrine	Do.	,,	2	P.		1
	Ditto	Guard room	Do.	,,	2	P.		1
	Ditto	Collector's kutcherry	Do.	C. and P.	6	P.		2
	Ditto	Police hospital						
	Ditto	Treasury guard room	Do.	C.	2	K. P.		1½
	Ditto	District Board's office	Do.	,,	1½	P.		1
			Do.	,,	1½	P.		2
	Ditto	Police Lines, Pilibhít	Do.	,,	2	P.		1
		THIRD CIRCLE.						
		Fyzabad district.						
	Milkipur	VII Class Post-office and Runners' quarters.		C.	2	P.		1
				P.	½			
	Tanda	Tahsíli		C.	3	P.		1
				P.	1½			
	Ditto	Addition to Tahsildár's Court room,		C.	3	P.		1
	Ditto	Treasury guard room and cook room,		P.	1½	K. and K. P.		½
				K.				
FYZABAD	Akbarpur	Tahsíli		Kankar	5	P.		1½
				C.	2			
				P.	1			
	Ditto	Treasury		Kankar	5	P.		1½
				C.	2			
				P.	1			
	Ditto	Thána		Kankar	5	P.		1½
				C.	2			
				P.	1			
	Ditto	Akbarpur thána, stable and cook house,		Kankar	5	P.		1
				C.	2			
				P.	1			
		Gonda district.						
	Balrampur	VII class Post-office		C.	2½	P.		...
	Ditto	Runners' quarters		P.	1			

15

WESTERN PROVINCES AND OUDH.

TAIN SELECTED BUILDINGS.

kutcha. In. P. inner pucka. F. M. flat mud. M. P. mud plaster. T. terraced. Pl. planked. P. T. pent tiled. masonry. D. S. dry stone. S. S. stone slabs. C. concrete. R. K. P. rubble stone in clay. B. F. brick flat. B. W. G. In. inner. O. outer. K. kankar. P. M. pucka masonry. P. B. pucka brickwork. M. masonry. K. F. B. flat bricks. J. A. Jack arches. T. A. tied arch. A. arched. S. stone.

of walls, &c.

Wall to top of wall of plate.		Roof.	Floor.	Cost.	Area.	Rate per superficial foot.
	Feet.			Rs.	Sqpl. feet.	Rs. a. p.
Wall K. P.						
,,	13	Arched	Brick on edge	4,800	2,400	2 0 0
,,	19½	Terraced on timber	Terraced	53,320	26,911	2 0 0
,,	15½	Tie arched	K.	4,393	2,306	1 14 0
,,	19½	Arched	Brick on edge	5,650	2,651	2 2 1
K. P.						
P.	14′-3″	Tie arched	Flat brick	4,772	3,789	1 4 5
,,	20	Terrace on timber	Terrace	14,245	6,281	2 4 0
K. P.	93	Arch timber	,,	12,344	5,456	2 3 4
P.	14	Tile	Brick on edge	2,475	2,475	1 0 0
	Main 25½	Arched	Terraced	7,020	2,340	3 0 0
,,	Ver. 14½					
,,	17	Terrace on timber	Brick on edge	9,622	5,689	1 11 0
,,	8	Arched	Tiled floor	5,068	3,479	1 7 0
K. P.	18	1 Arched and 2 tiled,	,,	7,423	3,232	2 4 8
,,	20	Jack arch over iron girder and rail.	B. F.	5,490	2,579	2 2 2
,,	...	...	...	...	...	...
,,	19	P. T.	Mud	2,324	1,539	1 7 8
,,	10	,,	,,	613	389	1 8 3
,,	10	,,	,,	404	389	0 13 5
,,	10	,,	,,	1,439	1,439	1 0 8
P.	12½	Jack arches on girder	P.	45,664	14,231	3 3 0
	25 up to top.	in main room and beams in verandah.				
K.						
K. P.	13½	P. T.	B. F.	1,410	1,369	0 11 6
,,	15½	,,	Mud	1,655	1,762	0 15 0
,,	16	P. T. and T. The roof of two main rooms is of single Allahabad tile and two side rooms together with verandah of Jack arches over R. I. Rails.	B. F.	4,810	2,710	1 12 5
,,	8½	Arched	Mud	5,000	4,374	0 15 8
P. and K. P.	...	Tied arch	Kankar and tar	2,148	1,103 / 820	1 8 1
P. and K. P.	Main 12½′ spring. Verandah 8½′ ,, Hunter's quarters 2′ spring	,,	Brick on edge	5,297	2,303	2 4 8
P. and K. P.				2,628	1,138	2 3 5
K. and pillar of K. P.	Main 14½′ Verandah 10′ Ridge 13′	Jack arch on girder, Country tiling on battens.	Brick on edge K.	6,117	1,855	0 6 6
P. and K. P.	Main 16′ Verandah 12′	Tied arch	Brick on edge	7,643	3,337	1 15 1
P	8′ Spring of A.	Domed	Terraced	884	140	2 5 11
P. and K. P.	Main 16′ tie beams. Side 11½′ do. Verandah 8′ beams.	Main double tiling. Side single	Flat brick	6,917	2,988	1 6 2
P. and K. P.	10½′ up to springing.	Tied arched	Kankar	1,410	1,093	1 4 3
P. and K. P.	Main 17′ crown. Verandah 9½′ crown.	Terraced	Brick on edge	1,902	873	1 6 6