

Enclosure to P. W. D. Circular No. III Public Works.

PUBLIC WORKS DEPARTMENT, BENGAL.

STATEMENT OF CONSTRUCTION, AREAS AND COST OF PRINCIPAL BUILDINGS (IMPERIAL AND PROVINCIAL) IN THE ORISSA CIRCLE.

ABBREVIATIONS.—p, pucca; k p, kutcha pucca; p k p, pucca and kutcha pucca; d w, daub and wattle; cor, corrugated; d, dressed; ter, terraced; b l, brick in lime; b m, brick in mud; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s t, pent single tiled; p d t, pent double tiled; t, thatched; b f, brick flat; f, flagged; in, inner; o, outer; u, upper; gr, ground.

Division.	Locality.	Name of building.	DESCRIPTION AND HEIGHT OF WALLS.										Cost.	Area.	Rate per superficial foot.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
			Single or double storied.	Foundation.		Plinth.	Walls (to top of wall-plate).	Roof.	Floor.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
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Division.	Locality.	Name of building.	Description and Height of Walls.	Cont.	Area.	Rate per support- cial foot.
Single or double storied.	Foundation.	Plinth.	Walls (to top of wall- plate.)	Roof.	Floor.	
	Concrete.	Masonry.				
		Ft. In.	Ft. In.			
Durgabazar	...	...	...	...	...	...
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Division—continued.

Jail.													
Durgabazar	Entrance, Office and godown	single	...	stone	3 0	...	...	...	...	16 3 ter	356 stone pav- ing 803 tiled	2,658	2 8 0
...	Constable's accommodation	do	...	k p	2 0	k p	1 6 k p	...	...	10 6 t	...	863	0 13 0
...	Warder's sleeping accommodation	do	...	do.	2 0	do	1 0 do	...	...	9 8 pantile	...	1,185	1 0 0
...	Do No. 2	do	...	p	4 0	...	...	...	...	11 9 ter	...	417	1 4 0
...	Do cook-room	do	...	k p	2 0	k p	0 6 k p	...	...	8 3 pantile	...	477-9	1 0 0
...	Jailor's quarters	do	...	{ p	2 0	...	1 0 p	...	...	11 0 ter	...	999	1 8 0
...	Solitary Cell No. 1	do	...	stone	1 0	...	0 6 p	...	...	10 6 do	...	401-6	1 8 0
...	Do do No. 2	do	...	stone	3 6	...	2 8 p	...	...	10 6 do	...	892	1 8 0
...	Hazit and women's ward	do	...	p	2 0	...	1 3 p	...	...	12 6 do	...	2,400	2 0 0
...	Dhenky shed	do	...	stone	3 3	...	...	...	...	9 0 do	...	227	1 0 0
...	Cook-room	do	...	p	1 6	...	...	...	...	6 0 pantile	...	618-9	0 12 0
...	European ward	do	...	...	...	...	...	...	...	10 6 do	...	756	2 0 0
...	Godown	do	...	...	...	...	...	...	...	10 0 do	...	108-6	2 0 0
...	Do No. 2	do	...	...	...	...	...	...	...	9 10 do	...	371	1 8 0
...	Workshed	do	...	...	...	...	...	...	...	4 0 pantile	...	1,039	0 8 0
...	Do No. 2	do	...	stone	3 0	...	1 6 p pillar	...	...	9 6 do	...	4,176	1 0 0
...	Do dhenky and oil shed	do	...	do	3 0	...	0 9 stone	...	...	3 0 ter	...	2,792	0 8 0
...	General ward	do	...	do	3 0	...	0 6 p	...	...	13 3 do	...	11,603	2 0 0
...	Condemned cell	do	...	do	2 0	...	0 6 { p	...	...	2 0 do	...	169	1 8 0
...	A godown in Hazit ward	do	...	p	3 0	...	0 3 p	...	...	7 3 do	...	264	1 0 0
...	Privy	do	...	k p	1 6	...	...	...	...	7 0 do	...	94	1 0 0
...	Cook-room in female ward	do	...	p	1 6	...	...	...	...	7 6 do	...	225	1 0 0
...	Privy in do	do	...	k p	1 6	...	1 0 k p	...	...	4 6 do	...	120	1 4 0
...	Day privy	do	...	stone	3 0	...	1 3 p	...	...	10 5 do	...	565	0 13 0
...	Hospital	do	...	do	1 9	...	1 10 stone	...	...	7 8 do	...	4,187	2 0 0
...	Dead-house	do	...	p	1 6	...	...	...	...	8 0 do	...	511	2 0 0
...	Dissecting-room	do	...	p	2 0	...	0 4 p	...	...	7 5 do	...	300	1 0 0
...	Cook-room	do	...	k p	2 6	...	0 6 k p	...	...	11 0 t	...	89	1 0 0
...	Privy	do	...	do	...	...	0 5 do	...	...	6 9 ter	...	843	0 12 0
...	Civil prisoners' lock-up	do	...	...	...	...	...	...	...	...	...	109	0 12 0
...	Cook-room	do	...	...	...	...	...	...	...	...	...	...	...
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MAHARAJA

Division.	Locality.	Name of building.	DESCRIPTION AND HEIGHT OF WALLS.										Cont.	Area.	Rate per superfi- cial foot.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
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R. H. RHIND, C. E.,
Superintending Engineer, Orissa Circle.

No. 27-P. W. D. Press -28-1-81 -765.

Statement of construction, cost and length of bridges exceeding 50 linal feet in the Mahanadi Division, Orissa Circle.

Executive Division.	Name of bridge, or of river or nullah, and situation.	Date of completion.	Description of bridge.	Kind and depth of foundation.	Number and size of spans.	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.
Mahanadi Division, Khordha Sub-Division	GANJAM ROAD.	...	...	...	...	...	...	...	...	...
Do	Bridge No. 11 over Bearing nullah	...	Semi-circular arch of laterite	5' deep. Over concrete laterite masonry.	12 spans of 15½' each	20' 8"	17'	251'	...	...
Do	Do No. 13 over Jaugligaria	...	Do	5' deep. Laterite masonry.	4 do of 16'	20' 8"	16'	87'	...	...
Do	Do No. 23	...	Segmental arch of laterite masonry	4' do.	4 do of 11½' each	21' 3"	12'	74'	...	...
Do	Do No. 25	...	Do	4½' do.	4 do of 16'	21'	16'	87½'	...	...
Do	Do No. 32	...	Segmental arch of sand stone and laterite mixed.	7' do.	3 do of 16' do	15' 6" between parapets.	20' from floor level.	100'	...	...
Do	Do No. 38 over the Thadrim nullah Boyou.	...	Do	4' do.	8 do of 20' do	15' 3" do do	24' 6" do	83'	...	...
Do	Do No. 49	...	Semi-circular arch of laterite masonry.	7' do.	5 do of 13' do	16'	14'	78'	...	...
Do	Do No. 106	...	Segmental arch of laterite stones	1' 6" do.	3 do of 10' 3"	17' 1"	15' 1"	61' 2"	...	...
Do	Do No. 108 near Jenkia	...	Do	1' 2" do.	1 span of 18' 5"	18'	16' 6"	61' 6"	...	...
Do	Do No. 127	...	Do	1½' and is nearly laid on earth.	1 do of 18½'	17½'	8' 2"	50½'	...	...
Do	Do No. 130	...	Do	Foundation's depth 2', and do do.	1 do of 19½'	17½'	10'	61'	...	...
Do	Do No. 135	...	Do	2' 7" and do do	1 do of 20'	16' 5"	9' 6"	50' 3"	...	...
Do	Do No. 138	...	Do	1' 9" do do	3 spans of 15½' each	15' 5"	12' 9"	66'	...	...
Do	Do No. 139	...	Do	2' deep. Laterite masonry.	3 do of 15' 10" do	15'	16' 7"	66' 0"	...	...
Do	Do No. 141 over Jeggenathpore nullah.	...	Do	1½' on hard earth	3 do of 15½' do	16' 2"	10' 6"	65' 7"	...	...
Do	Do No. 143 over Kusmel River	...	Do	6' deep. Laterite masonry.	7 do of 20' do	14' 10"	13' 3"	217'	...	...
Do	Do No. 155	...	Do	1½' on hard earth	1 span of 20' 2"	17' 1"	11'	50½'	...	...
Do	Do No. 161 over Koilpullah nullah.	...	Do	2½' on kukur and ghooling.	3 spans of 20' each	14' 6"	14½'	80' 2"	...	...
Do	Do No. 177 over Ghabdeah nullah.	...	Semi-circular arch of laterite masonry.	6' and is nearly laid on earth.	1 span of 15' 2"	17' 11"	12' 4"	53' 7"	...	...
Do	Do No. 178	...	Segmental arch of laterite masonry	4½' deep	3 spans of 12' 5"	17' 5"	12' 7"	53' 9"	...	...
Do	Do No. 181	...	Do	4½' deep. Laterite masonry.	3 do of 16½'	15½'	17½'	63'	...	...
Do	Do No. 221	...	Do	3' do	3 do of 20' 2"	15' 1"	14½'	80' 8"	...	...
Do	Do No. 230 over Juri nullah	...	Do	1' 5" on kukur and stones.	2 do of 20' each	15'	22' 6"	131' 9"	...	...

Value could not be got from the records in Fort.

Executive Division.	Name of bridge, or of river or nullah, and situation.	Date of completion.	Description of bridge.	Kind and depth of foundation.	Number and size of spans.	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.
Mahanadi Irrigation Division.	For Road.									
Do	Bridge No. 8 in the 8th mile of the road, Mouza Remnager.	...	Laterite masonry	5' Laterite masonry	3 of 20' 9" x 12" each	17' 9"	13' 9"	51' 6"	2,553	4,959 4 8
Do	Do No. 6 in the 10th mile of the road, Prechee river (Mouza Fulnakra).	...	All brick masonry, but the north wing which consists of laterite masonry.	5' Brick do	3 of 25' 6" x 23' do	18' 6"	22'	79'	5,523	6,987 0 4
Do	Do No. 31 in the 38th mile, Muthe River (Mouza Satto Sunko).	...	Laterite masonry	5' Laterite do	7 of 21' x 8' do	19'	12'	97'	4,299	4,433 13 8
Do	Do No. 40 in the 47th mile (Mouza Alunda).	...	Do do	5' Do do	3 of 21' x 12' do	17' 3"	14'	56'	3,515	6,276 9 0
Do	Do No. 41 in the above mile (Dhandia Nullah).	...	Wooden bridge on wooden posts	...	1 of 100' x 11' do	9' 9"	15' 6"	100'	2,550	2,550 0 0
Do	Do No. 45 in the 51st mile on the Hoolkula Nullah, Atra Nullah.	...	Sand and laterite, stone masonry	7' Masonry	19 of 37 1/2' x 7' each	34'	19'	290'	15,675	5,370 13 4

J. MACMILLAN,

Executive Engineer, Mahanadi Irrigation Division,

No. 27, P. W. D. Press-28-1-81-765.

Statement of construction, cost, and length of bridges exceeding 50 lineal feet on the Orissa Trunk Road in the Bramini and Byturni Division, Orissa Circle.

Executive Division.	Name of bridge, or of river or nullah, and situation.	Date of completion.	Description of bridge.	Kind and depth of foundation.	No. and size of spans.	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.
BRAMINI-BYTURNI DIVISION.	No. 1 bridge over Gudee Moolhat Chaspara.	Not known.	Laterite masonry of 5 openings.	Pucca masonry, depth not known.	2 of 12' 6"	17' 8"	12' 6"	78' 6"			
	No. 6 bridge over Gandanais at Nooticree.	do	Brick masonry of 5 openings.	do	3 of 7' 6"	17' 3"	16' 0"	78' 5"			
	No. 16 bridge over Badakhia nullah at Tangee.	do	Do of 4 do	do	2 of 11' 8"	18' 0"	13' 5"	61' 5"			
	No. 28 bridge over Nalch Jore nullah.	do	Do of 3 do	do	3 of 14' 7"	18' 0"	17' 6"	65' 0"			
	No. 37 bridge over Byree nullah.	do	Do of 5 do	do	3 of 13' 9"	18' 0"	18' 0"	88' 0"			
	No. 41 bridge at Hasnabad ...	do	Do of 4 do	do	4 of 14' 7"	18' 0"	17' 2"	85' 0"			
	No. 47 bridge over Hasnabad ...	do	Laterite masonry of 4 openings.	do	2 of 7' 9"	18' 0"	12' 0"	60' 0"			
	No. 53 bridge over Coonaree at Nooticree.	do	Brick masonry of 6 openings.	do	2 of 12' 6"	19' 0"	14' 0"	84' 0"			
	No. 57 in 34th mile from Cuttack Gubakhuda nullah.	...	Laterite and sandstone masonry, Gothic arch.	...	7 spans 11' 6" each.	18' 0"	14' 9"	152' 6"			
	No. 60 in 36th do Noonis nullah.	...	Brick masonry, segmental arch.	...	9 do 15' each	18' 0"	19' 0"	183' 0"			
	No. 63 in do do Bono-mallypore.	...	Do do	...	3 do 15' do	17' 0"	17' 0"	176' 0"			
	No. 63 in do do Bili-pudla.	...	Do do	...	3 do 15' do	18' 0"	19' 0"	81' 0"			
	No. 65 in 37th mile do Khunditar.	...	Do do	...	12 do 15' do	18' 0"	18' 6"	240' 0"			
	No. 68 in 38th do do Makin-da Bunda.	...	Do do	...	3 do 15' do	17' 9"	14' 6"	68' 0"			
	No. 67 in 39th do do Tickor.	...	Do do	...	4 do 15' do	18' 0"	19' 6"	91' 0"			
	No. 69 in 43rd do do Sukolahi nullah.	...	Brick and sandstone masonry, Gothic arch.	...	2 do 12' do	17' 0"	16' 0"	61' 0"			
	No. 71 in do do Puthur-padda Jore.	...	Brick masonry, segmental arch.	...	3 do 10' do	18' 0"	17' 3"	57' 0"			
	No. 73 in 45th do Kani river.	...	Do do	...	8 do 15' do	18' 0"	20' 6"	163' 0"			
	No. 1 in 46th mile from Cuttack Byturni river left.	...	Do do	...	6 do 20' do	18' 6"	22' 0"	165' 0"			
	No. 3 in 49th mile from do do	...	Do do	...	8 do 20' do	18' 6"	63' 9"	203' 0"			
	No. 6 in 51st do do do	...	Do do	...	6 do 15' do	18' 6"	20' 0"	118' 0"			
	No. 11 in 56th do do across Kiboo nullah.	...	Do do	...	4 do 20' do	17' 6"	20' 0"	108' 0"			
	No. 12 in do do do	...	Do do	...	4 do 15' do	17' 3"	18' 6"	114' 0"			
	No. 15 in 68th do across Chotakopali.	...	Do do	...	8 do 15' do	18' 6"	23' 3"	62' 6"			
	No. 22 in 61st mile across Chotakopali Salundi bank.	...	Do do	...	5 do 20' do	18' 0"	22' 6"	154' 6"			

Executive Division.	Name of bridge, or of river or nullah, and situation.	Date of completion.	Description of bridge.	Kind and depth of foundation.	No. and size of spans.	Width of roadway between parapets or railings.	Height of roadway above foundations or river-bed.	Total length of bridge.	Total cost.	Cost per 100 feet of length.	Remarks.
	No. 23 in 61st mile across Chotakopali Salundi bank.	Unknown	Brick masonry, segmental arch	Unknown	3 spans 15' each.	15' 0"	15' 9"	62' 9"		...	The whole work of this bridge is of brick masonry and is good order.
	Bridge No. 30 Tulunger bridge or Sanamoo nullah.	do	6 spans of segmental arches, and the flow construction is flat and of brick masonry.	do	6 of 19' 6" each.	18' 0"	17' 8" above bed of nullah.	135' 6"		...	do.
	Kanabus river bridge No. 47 in 4th quarter, 29th mile.	do	5 spans of segmental arches; construction of flow is flat and the whole of brick masonry.	do	5 of 22' each	18' 0"	23' 6" do	124' 4"		...	do.
	Do No. 48 do	do	4 spans of segmental arches, and the flow construction is of inverted arches of brick masonry.	do	5 of 21' 6" each.	18' 3"	21' 6" do	127' 0"		...	The construction of flow is inverted arches of brick masonry, the whole is good order, but one arch near the north abutment is cracked near the key-stone. The construction of the flow is laterite, also the pier; remaining work in good order.
	Do No. 49 do	do	6 spans of segmental arches and the flow construction is flat, and made of laterite stones.	do	6 of 16' 6" each.	18' 3"	29' 0" do	136' 0"		...	The whole work of the bridge is brick masonry and in good order.
	Daisidd bridge No. 60 in 21st mile, 1st quarter, Dodinh nullah.	do	6 spans of segmental arches. The flow construction is flat, and the whole brick masonry.	do	6 of 8' each	18' 0"	20' 0" do	72' 0"		...	This was an old Mahratia bridge of 3 spans; it was lengthened by Government in 1884 into 4 spans.
	Annullah bridge No. 87, 12th mile, 4th quarter.	do	4 spans of semicircular arches; the flow constructed in flat, and whole brick masonry.	do	4 spans of which 3 of 8' 6" and 2 of 10' 6" 4 of 16' each	17' 0"	16' 0" do	50' 6"		...	Do
	Neemboe nullah bridge No. 96, 7th mile, 8rd quarter, south.	do	2 spans of semicircular arches and 2 of segmental arches, brick masonry.	do	19 of 19' each	17' 0"	22' 0"	600' 0"		...	
	No. 101 bridge in 1st mile, north of Balasore.	do	do	do	9 of 16' do	18' 0"	18' 0"	170' 0"		...	
	No. 104 do in 5th do	do	do	do	3 of 16' do	18' 0"	15' 0"	60' 0"		...	
	No. 105 do in 5th do	do	do	do	4 of 13' do	18' 0"	17' 0"	70' 0"		...	
	No. 109 do in 7th do	do	do	do	3 of 15' do	18' 0"	15' 0"	70' 0"		...	
	No. 119 do in 12th do	do	do	do	6 of 15' do	18' 0"	18' 0"	120' 0"		...	
	No. 120 do in 13th mile	do	do	do	3 of 10' do	18' 0"	17' 0"	60'		...	
	No. 122 do in 15th do	do	do	do	4 of 18' do	18' 0"	18' 0"	115' 0"		...	
	No. 123 do in 15th do	do	do	do	7 of 18' do	18' 0"	18' 0"	140' 0"		...	
	No. 124 do in 15th do	do	do	do	6 of 20' do	18' 0"	17' 0"	180' 0"		...	

BRANKINI-BYTUNARI DIVISION—(concl.)

No. 127 do in 17th do	do	do	do	do	4 of 10' do	17' 0"	17' 0"	97' 0"		...	Suspension bridge.
No. 128 do in 18th do	do	do	do	do	3 of 16' do	18' 0"	17' 0"	65' 0"		...	
No. 129 do in 18th do	do	do	do	do	3 of 15' do	18' 0"	17' 0"	65' 0"		...	
No. 131 do in 19th do	do	do	do	do	2 of 20' do	21' 0"	18' 0"	60' 0"		...	
No. 134 do in 21st do	do	do	do	do	2 of 12' do	18' 0"	12' 0"	65' 0"		...	
No. 136 do in 22nd do	do	do	do	do	3 of 15' do	18' 0"	15' 0"	63' 0"		...	
No. 137 do in 23rd do	do	do	do	do	1 of 120' do	12' 0"	15' 0"	150' 0"		...	
No. 139 do in 26th do	do	do	do	do	2 of 10' do	18' 0"	7' 0"	53' 0"		...	
No. 140 do in 27th do	do	do	do	do	2 of 10' do	19' 0"	7' 0"	55' 0"		...	
No. 141 do in 27th do	do	do	do	do	2 of 10' do	19' 0"	7' 0"	60' 0"		...	
No. 143 do in 29th do	do	do	do	do	1 of 13' do	20' 0"	8' 0"	70' 0"		...	
No. 146 do in 31st do	do	do	do	do	4 of 13' do	20' 0"	15' 0"	97' 0"		...	
No. 147 do in 32nd do	do	do	do	do	2 of 13' do	20' 0"	8' 0"	70' 0"		...	

C. E. LIVESAY,
Executive Engineer,
Branjal-Bytural Division.

Executive Division.	Locality.	Name of building.	Single or double storied.	DESCRIPTION AND HEIGHT OF WALLS.					Cost.	Area.	Rate per superficial foot.	
				Foundations.		Plinth.	Walls (to top of wall plate.)	Roof.				Floor.
				Concrete.	Masonry.							
				Ft. In.	Average. Ft. In.		Average. Ft. In.					
Gya	do	Church	Single	...	...	...	...	...	...	...	...	Rs. A. P.
	do	Compound wall	do	...	...	...	...	...	...	...	...	...
	do	Chowkedar's hut	do	...	...	...	...	...	...	...	...	...
	do	New burial ground com-	do	...	...	...	...	...	...	...	...	...
	do	pound wall	do	...	...	...	...	...	...	...	...	...
	do	Rolling room	do	...	...	...	...	...	...	...	...	...
	do	Guard room	do	...	...	...	...	...	...	...	...	...
	do	Old burial ground com-	do	...	...	...	...	...	...	...	...	...
	do	pound wall	do	...	...	...	...	...	...	...	...	...
	do	Rolling room	do	...	...	...	...	...	...	...	...	...
Arrangabad	do	Dwelling house	do	...	...	...	...	...	...	...	...	...
	do	Cook house	do	...	...	...	...	...	...	...	...	...
	do	Servant's house	do	...	...	...	...	...	...	...	...	...
	do	Stable	do	...	...	...	...	...	...	...	...	...
	do	Privy	do	...	...	...	...	...	...	...	...	...
	do	Court house	do	...	...	...	...	...	...	...	...	...
	do	Lock-up	do	...	...	...	...	...	...	...	...	...
	do	Dwelling house and Court	do	...	...	...	...	...	...	...	...	...
	do	house	do	...	...	...	...	...	...	...	...	...
	do	Cook house	do	...	...	...	...	...	...	...	...	...
Nowada	do	Servant's house	do	...	...	...	...	...	...	...	...	...
	do	Stable	do	...	...	...	...	...	...	...	...	...
	do	Post Office	do	...	...	...	...	...	...	...	...	...
	do	Nud hut out-office	do	...	...	...	...	...	...	...	...	...
	do	Residence	do	...	...	...	...	...	...	...	...	...
	do	Cook house	do	...	...	...	...	...	...	...	...	...
	do	Stable	do	...	...	...	...	...	...	...	...	...
	do	Servant's house	do	...	...	...	...	...	...	...	...	...
	do	Weighting shed	do	...	...	...	...	...	...	...	...	...
	do	Testing shed	do	...	...	...	...	...	...	...	...	...
Sherghatty	do	Office treasury	do	...	...	...	...	...	...	...	...	...
	do	Guard room	do	...	...	...	...	...	...	...	...	...
	do	Dwelling house	do	...	...	...	...	...	...	...	...	...
	do	Cook house	do	...	...	...	...	...	...	...	...	...
	do	Privy	do	...	...	...	...	...	...	...	...	...
	do	Stable	do	...	...	...	...	...	...	...	...	...
	do	Servant's house	do	...	...	...	...	...	...	...	...	...
	do	Court house	do	...	...	...	...	...	...	...	...	...
	do	Lock-up	do	...	...	...	...	...	...	...	...	...
	do	Stable of circuit house	do	...	...	...	...	...	...	...	...	...
Telita	do	Privy of do	do	...	...	...	...	...	...	...	...	...
	do	City hospital	do	...	...	...	...	...	...	...	...	...
	do	Assistant Surgeon's house	do	...	...	...	...	...	...	...	...	...
	do	Servant's house	do	...	...	...	...	...	...	...	...	...
	do	do	do	...	...	...	...	...	...	...	...	...
	do	Compound wall	do	...	...	...	...	...	...	...	...	...
	do	do	do	...	...	...	...	...	...	...	...	...
	do	do	do	...	...	...	...	...	...	...	...	...
	do	do	do	...	...	...	...	...	...	...	...	...
	do	do	do	...	...	...	...	...	...	...	...	...

PATNA

do	do	Servant's house	do	...	...	...	...	...	...	...	...
do	do	do	do	...	...	...	...	...	...	...	...
do	do	Dead house	do	...	...	...	...	...	...	...	...
do	do	Leper ward	do	...	...	...	...	...	...	...	...
do	do	Servant's house, old	do	...	...	...	...	...	...	...	...
do	do	Privy	do	...	...	...	...	...	...	...	...
do	do	Distillery	do	...	...	...	...	...	...	...	...
do	do	Government school	do	...	...	...	...	...	...	...	...
do	do	Additional school building	do	...	...	...	...	...	...	...	...
do	do	Chowkedar's hut	do	...	...	...	...	...	...	...	...
do	do	Inspection bungalow	do	...	...	...	...	...	...	...	...
do	do	Servant's house	do	...	...	...	...	...	...	...	...
do	do	Stable and cook-house	do	...	...	...	...	...	...	...	...
do	do	Bridge Bungalow	do	...	...	...	...	...	...	...	...
do	do	Road chowkee	do	...	...	...	...	...	...	...	...
do	do	Cook house	do	...	...	...	...	...	...	...	...
do	do	Road chowkee	do	...	...	...	...	...	...	...	...
do	do	Road chowkee	do	...	...	...	...	...	...	...	...
do	do	Road chowkee	do	...	...	...	...	...	...	...	...
do	do	Cook-house	do	...	...	...	...	...	...	...	...
do	do	Privy	do	...	...	...	...	...	...	...	...

JAMES KEDDIE, C. E.,
Executive Engineer, Patna Division.

Statement of construction, cost and length of bridges exceeding 500 lineal feet in the Patna Division.

Executive Division.	Name of bridge, or of river or nullah, and situation.	Date of completion.	Description of bridge.	Kind and depth of foundation.	Number and size of spans.	Width of roadway between parapets or railings.	Height of roadway above foundations or river-bed.	Total length of bridge.	Total cost.	Cost per 100 feet of length.	REMARKS.
	Mohun Bridge, mile 269, G. T. road.		Stone masonry	...	7 of 63	Feet. 22	Feet. 89	Feet. 600			
	Chunry Nulla, mile 270, G. T. road.		Ditto	...	3 of 18	22	21	100			
	Harria Nulla, mile 273, G. T. road.		Ditto	...	2 of 20	24	18	92			
	Batary River, mile 278, G. T. road.		Ditto	...	4 of 35	22	26	262			
	Ditto ditto Nulla		Ditto	...	3 of 14	20	17	51			
	Goolankri Bridge, mile 279, G. T. road.		Stone arch each end	...	Arches 150	20	28	298			
	Leelujan waterway, mile 284, G. T. road.		Stone masonry	...	1 of 49	30	23	110			
	Leelujan River, mile 284, G. T. road.		Ditto	...	6 existing spans of 49 ft., 10 given way	24	29	7,000			
	Leelujan waterway, mile 284, G. T. road.		Ditto	...	3 of 49	30	27	228			
	Junna River, mile 287, G. T. road.		Ditto	...	2 of 21	30	16	66			
	Bhoorba River, mile 291, G. T. road.		Stone masonry and brick arches and superstructure.	...	16 of 73	21	35	1,468			
	Morhur River, mile 292, G. T. road.		Ditto	...	14 of 73	20	36	1,200			
	Ghilly Nulla, mile 80, P. B. road.		Stone masonry	...	3 of 16	27	10	83			
	Kandoo Bund, mile 70, P. B. road.		Ditto	...	3 of 10	23	8	54			
	Ditto ditto		Ditto	...	3 of 10	27	9	63			
	319 mile, Drainage Bridge No. 191.		Rubble masonry and ashlar arches	...	3 of 25	22	21	143			
	314 mile, Kasal Bridge No. 192		Ditto	...	4 of 30	21	28	219			
	314 mile, Drainage Bridge No. 193.		Ditto	...	1 of 20	22	23	75			
	309 mile, Guttrain Nuddes No. 178.		Rubble masonry	...	2 of 20	27	6	95			
	317 mile, Jecarree Nuddes Bridge No. 203.		Ditto	...	4 of 15	21	15	127			
	321 mile, Adra Nuddes Bridge No. 211.		Ditto	...	5 of 35	21	24	260			
	323 mile, Josah Nuddes Bridge No. 219.		Ditto	...	2 of 15	27	18	103			
	331 mile, Poon Poon Bridge No. 240.		Pucca brick-work towers. Dredgers suspension bridge, plank flooring.	...	10 of 152	14	30	213			
	334 mile, Canal Escape Bridge No. 245.		Pucca brick-work	...	3 of 13	20	13	94			
	334 mile, Some Canal Bridge No. 246.		Brick-work, iron latticed girders	...	3 of 54	15	24	168			
	334 mile, Drainage Bridge No. 217		Brick-work	...	4 of 15	23	13	123			

No. 27, P. W. D. Press-28-1-81-765.

JAMES KEDDIE, C. E.,
Executive Engineer, Patna Division.

SHAHABAD DISTRICT, GRAND TRUNK ROAD.

ABBREVIATIONS—P, pucca; k, p, kutcha pucca; p, k, pucca and kutcha pucca; d, w, daub and wattle; cor, corrugated; d, dressed; ter, terraced; b, l, brick in lime; b m, brick in mud; r, rubble; c, c, coursed rubble; d, dry stone; c, concrete; p, s, t, pent single tiled; p, d, t, pent double tiled; t, thatched; b, f, brick flat; f, flagged; in, inner; o, outer; u, upper; gr, ground; p, r, pucca rubble; k, r, kutcha rubble.

ABBREVIATIONS—p, pucca; k p, kutcha pucca; p r, rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; 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c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s, pucca stone; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete

PATNA.

Executive P. W. D. Division.	Locality.	Name of buildings.	Single or double storied.	DESCRIPTION AND HEIGHT OF WALLS.						Roof.	Floor.	Cost.	Area.	Rate per superficial feet.
				Foundation.		Plinth.	Walls to the top of wall plate.							
				Masonry.			Ft. In.	Ft. In.	Ft. In.					
				Concrete.										
4	Buzar	Overseer's Bungalow No. 1	single	...	...	1 3 p	...	0 3 p	...	7 6 p s t & t	ter & tiled ...	Rs.	S. ft.	Rs. A. P.
5	do	do No. 2	do	...	...	2 3 p	...	1 0 p	...	8 4 do	g and brick-on-edge.	847	2,981	0 4 6
6	do	do No. 3	do	terrace all round, foundation not examined.	...	...	...	1 6 p	...	12 2 ter	ter	2,607	2,271	1 2 3
7	do	Stable No. 1	do	...	...	2 0 p	...	0 6 p	...	7 9 p d t	kankar	20,227	37,001	0 8 9
8	do	do No. 2	do	...	...	3 0 p	...	0 2 p	...	8 2 do	earthen	14,492	21,526	0 10 9
9	do	do No. 3	do	...	...	1 3 p	...	0 1 p	...	7 6 p s t	do	3,147	7,408	0 6 9
10	do	do No. 4	do	...	...	0 1 p	...	0 6 p	...	8 0 do	kankar	3,089	17,978	0 3 6
11	do	do No. 5	do	...	...	1 6 p	...	0 6 p	...	7 2 do	do	6,009	17,667	0 5 6
12	do	do No. 6	do	...	...	1 0 p	...	1 0 p	...	7 11 p d t	earth	23,611	34,698	0 10 9
13	do	do No. 7	do	...	...	1 0 p	...	1 0 p	...	7 6 p s t	do	3,920	10,400	0 6 0
14	do	Officer's quarter in Fort...	double	...	...	3 0 p	...	1 0 p	...	12 10 } p p {	ter & tiled & t	...	4,214	...
15	do	Deputy Collector and M...	single	...	...	2 6 p	...	1 0 p	...	13 5 } p s t & matted	g. ter & brick-on edge.	...	4,495	...
16	do	Gistrate's Court.	...	...	...	1 0 p	...	0 9 p	...	7 6 p s t	do	...	2,709	...
17	do	Moonsiff's Court	...	...	...	1 0 p	...	0 9 p	...	10 3 ter	ter	...	2,901	...
18	do	Lock-up	...	...	...	2 0 p	...	0 6 p	...	16 1 p s t & matted	do	...	3,397	...
19	do	Cemetery	...	...	...	1 9 p	...	0 6 p	...	6 6 do	...	...	100,800	...
1	do	P W D godown	...	...	...	1 6 p	...	1 0 p	...	8 9 p s t	brick-on-edge	...	1,659	...
1	Dehree	Dak Bungalow	single	...	...	1 6 p	...	1 0 p	...	8 9 p s t & t	ter	...	1,785	...
1	do	Road chowkey	...	...	...	1 6 p	...	0 6 p	...	9 3 do	ter, g	...	2,983	...
2	do	Late Commissariat Bungal...	...	...	...	2 0 p r	...	1 0 p r	...	9 3 do	ter	...	1,774	...
1	Snasram	Dak Bungalow	...	...	...	2 0 p r	...	1 0 p r	...	11 0 do	ter	...	2,400	...
1	do	Sub-Divisional dwelling	...	...	...	2 0 p r	...	1 3 p r	...	13 0 do	do	...	7,069	...
2	do	Lock-up	...	...	...	1 6 p	...	0 9 p	...	13 0 p s t	ter & k	...	5,727	...
3	do	Inspection Bungalow at present Kacherry.	...	...	...	0 1 p r	...	1 0 p r	...	9 7 p s t & t	ter	...	5,765	...
1	Jehanabad	Post Office	...	...	...	3 6 p	...	1 9 p	...	11 0 do	do	...	2,063	...
1	do	Road chowkey	...	...	...	2 6 p	...	0 6 p	...	9 8 } do ter	do	...	4,806	...
1	Mortyner	Road chowkey	...	...	...	2 9 p	...	1 3 p	...	0 9 p s t & t	do	...	1,268	...
1	Bhaboon	Sub-Divisional dwelling	...	...	all round pucca, foundation not examined.	...	...	1 3 p	...	10 0 do	do	...	2,250	...
3	do	Lock-up	...	...	...	1 9 p r	...	2 0 p r	...	11 9 } ter, p s t	g	...	2,364	...
2	do	Court house	...	...	...	2 0 p r	...	2 0 p r	...	18 0 ter	g	...	2,743	...
1	Durgowti	Road chowkey	...	...	...	2 6 p	...	1 6 p	...	10 3 p s t & t	ter	...	1,088	...

PART A—continued.

PART 3—continued.

SHAMSUNDAR DASS,

Head Assistant for Supdg. Engineer, Western Circle.

J. O'FLAHERTY, C. E.,

Executive Engineer, Patna Division.

Statement of construction, cost and length of bridges exceeding 50 lineal feet on the Grand Trunk Road, Shahabad District.

Name of bridge or of river or nullah and situation.	Date of completion.	Description of bridge.	Kind and depth of foundation.	Number and size of span.	Width of roadway between parapets or railings.	Height of roadway above foundations or river bed.	Total length of bridge.	Total cost.	Cost per 100 feet of length.	REMARKS.
Khornabad bridge over river Koodra.	Unknown.	Bridge of pucca rubble stone masonry. All spans arched over. Arches made of dressed rubble. Foundation of piers and abutments resting on wells 20' deep, wing walls on 10' deep wells and somewhere 8' copings of dressed stone.	Of piers and abutments, well 20' deep of wing walls, wells 10' 8" deep of pucca rubble masonry.	4 spans of 45 feet each	Ft. In.	Ft. In.	Ft. In.	Unknown.	Unknown.	
Bridge No. 78 in mile 372 of Grand Trunk Road. Drain bridge.	Ditto	Of pucca brick-work and stone beams in place of arches and floored.	Pucca brick-work 4' deep.	4 spans of 12½ feet each	30 0	8 8	65 0			
Bridge No. 79 in mile 372, Grand Trunk Road. Drain bridge.	Ditto	Of pucca masonry and arched and floored	Pucca brick-work 3' 6" deep.	4 spans of 12½ feet long	29 7	8 8	66 1			
Bridge No. 89 in 376 mile. Drain bridge.	Ditto	Of pucca brick-work, stone beams in place of arches and floored.	Pucca brick-work 3' 8" deep.	4 spans of 12½ feet each	29 6	8 8	65 0			
Bridge No. 91 in 376 mile. Drain bridge.	Ditto	Of pucca brick masonry, arched and floored.	Pucca brick-work 3' 8" deep.	4 spans of 12½ feet each	29 6	8 8	65 3			
Bridge No. 94 in 377 mile. Drain bridge.	Ditto	Pucca brick-work, stone beams in lieu of arches.	Pucca brick-work 3' 6" deep.	4 spans of 12½ feet each	29 6	8 8	65 2			
Doorgawti bridge over river Doorgawti.	Ditto	Suspension bridge (iron) links, tie rods, chain and some of the beams are of wrought iron, rest of the beams of steel wood. The roadway is of 2" x 12" planks — 1st layer fixed longitudinally, and the 2nd one cross-wise at an angle of 45°. Foot path of one layer of planks set longitudinally on each mile. Piers and abutments of ashlar masonry.	Ashlar masonry 8 feet high and wells 20 feet deep.	8 spans, centre one 186' 9" long, each of the side ones 63 feet.	14 0	28 0	331 9			
Doorgawti viaduct No. 132	Ditto	Of rubble masonry, stone beams in lieu of arches, copings of dressed stone.	Rubble masonry and pucca brick-work 5' 6" deep.	67 spans of 15 feet each	23 0	13 6	1,337 0			
Ditto ditto No. 133	Ditto	Ditto ditto	Pucca brick-work 4' 6" deep.	14 spans of 15' ...	28 0	10 0	318 0			
Ditto No. 143 in 393 mile	Ditto	Pucca brick-work, arched and floored ...	Pucca brick-work 4' 6" deep.	10 spans of 16' ...	23 0	13 0	229 0			
Ditto No. 144 in 393 "	Ditto	Ditto ditto	Pucca brick-work 4' 6" deep.	6 spans of 15' 11" ...	23 0	12 3	147 0			
Ditto No. 145 in 393 "	Ditto	Ditto ditto	Pucca brick-work 4' 6" deep.	16 feet long each span, of 6 spans	23 0	12 6	147 0			
Ditto No. 146 in 394 "	Ditto	Ditto ditto	Ditto ditto	Ditto ditto	23 0	12 6	147 0			

SHAMSUNDER DASS,

Head Assistant for Supdg. Engineer, Western Circle.

J. O'FLAHERTY, C. E.,

Executive Engineer, Patna Division.

PATNA DIVISION.

ABBREVIATIONS—p, pucca; k p, kutchha pucca; p k p, pucca and kutchha pucca; d w, daub and wattle; cor, corrugated; d, dressed; ter, terraced; b l, brick in lime; b m, brick in mdd; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s t, pent single tiled; p d t, pent double tiled; t, thatched; b f, brick flat; fl, flagged; in, inner; o, outer; u, upper; gr, ground.

Executive Division.	Locality.	Name of building.	Single or double storied.	DESCRIPTION AND HEIGHT OF WALLS.						Roof.	Floor.	Cost.	Area.	Rate per superficial foot.				
				Foundation.		Plinth.	Walls (to top of wall-plate.)	Ft. In.	Average. Ft. In.									
				Concrete.	Masonry.													
PATNA.	MUZAFFARPUR.	Collector's Kucherry	Single	...	nil ...	p	...	Average. 2 7	...	4 0	p	...	16 2	terraced	...	20,982	Rs.	
		Judge's Court	Do.	...	nil ...	p	...	2 6 do	...	4 0	do	...	...	16 2	do	...	19,432	...
		Magistrate's Court	Do.	...	nil ...	p	...	1 9 do	...	4 0	do	...	...	17 0	do	...	11,151	...
		Monsiiff's do.	Do.	...	nil ...	p	...	2 0 k p	...	4 0	k p	...	...	15 0	tiled	...	7,500	...
		Sub-Registry Office	Do.	...	nil ...	p	...	2 0 p	...	3 0	p	...	...	16 0	terraced	...	3,420	...
		Training School	Do.	...	nil ...	p	...	2 0 p	...	2 0	p	...	...	17 6	do	...	2,453	...
		Government School	Do.	...	nil ...	p	...	2 0 p	...	2 6	p	...	...	15 0	do and tiled	...	6,445	...
		Do Dispensary	Do.	...	nil ...	p	...	2 0 p	...	2 0	p	...	...	16 6	do	...	5,416	...
		Police Thanna Inspectors' and Sepoy's ward.	Do.	...	nil ...	p	...	2 0 p	...	2 0	p	...	...	11 6	terraced	...	6,365	...
		Circuit house	Do.	...	nil ...	k p	...	2 6 k p	...	2 6	k p	...	...	17 3	do and tiled	...	...	...
		Hospital in Muzafferpur Jail.	Double	...	nil ...	do	...	2 3 p	...	2 3	p	...	...	{ 12 0 } 12 9	terraced	...	3,732	...
		Overseer's bungalow	...	...	nil ...	do	...	1 6 k p	...	1 6	k p	...	...	12 0	tiled	...	...	...
		Sub-Divisional Kucherry	Single	...	nil ...	p	...	1 6 p	...	2 0	p	...	...	16 0	terraced	...	2,994	...
		Do Residence Bungalow	...	...	nil ...	k p	...	1 6 k p	...	2 0	k p	...	...	16 0	tiled	...	2,768	...

C. T. STEWART, Colonel, R. E.,

Superintending Engineer, Western Circle.

J. J. O'FLAHERTY, C. E.,

Executive Engineer, Patna Division.

PATNA DIVISION.

ABBREVIATIONS.—p, pucca; k p, kutcha pucca; p k p, pucca and kutcha pucca; d w, daub and wattle; cor, corrugated; d, dressed; ter, terraced; b l, brick in lime; b m, brick in mud; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s t, pent single tiled; p d t, pent double tiled; t, thatched; b f, brick flat; fl, flagged; in, inner; o, outer; u, upper; gr, ground.

Executive Division.	Locality.	Name of building.	Single or double storied.	DESCRIPTION AND HEIGHT OF WALLS.						Cost.	Area.	Rate per superficial foot.
				Foundation.		Plinth.	Walls (to top of wall plate.)	Roof.	Floor.			
				Concrete.	Masonry.							
				Ft. In.	Average. Ft. In.	Pucca	Average. Ft. In.	Ft. In.		Rs.	Rs. A. P.	
PATNA DIVISION. S. SUB-DIVISION.	Godzarbaugh	Min godown	double	unknown	P	unknown	0 8	{ gr p up	17 0 } ter	...	65,520	29,878 @ 2 3 1
	do	Centre do	single	do	P	3 0	0 6	p	20 6 } do	a	122,176	25,172 4 13 7
	do	Caking do	do	...	P	2 0	0 6	p	22 3 } do	a	40,364 1 8 6	
	do	Diamond do	do	none	P	2 0	0 6	p	22 9 } do	a & b l	57,159 3 10 6	
	do	Lewa khana	do	...	P	4 0	0 6	p	19 8 } do	a	14,373 3 11 10	
	do	Wash-house	do	...	P	4 0	0 6	p	19 8 } do	a	5,793 2 11 11	
	do	East or south godown	do	none	P	3 0	0 6	p	21 9 } ter	b l & a	15,912 3 14 3	
	do	West godown	do	unknown	P	3 0	0 6	p	21 9 } do	a	1,01,250 1 7 3	
	do	Office and Laboratory	do	do	P	1 6	0 6	p	18 3 } do	a	39,639 27,266 3 9 9	
	do	Alkari shed	do	do	P	1 6	0 6	p	18 3 } do	mud	27,102 7,500 2 2 8	
	do	do opium godown	do	do	P	1 6	0 6	p	9 3 } do	ter	4,979 13,008 2 11 0	
	do	East poppy do	do	do	P	2 0	0 6	p	8 10 } vaulted	bl	23,620 10,609 2 3 5	
	do	West cup do	do	do	P	2 0	0 6	p	15 3 } p d t	do	6,042 3 1 2	
	do	West do do	do	do	P	3 6	0 6	p	12 4 } do	do	11,840 5,610 2 1 7	
	do	Mustering shed	do	do	P	3 6	0 6	p	9 5 } vaulted	mud	4,368 2,983 1 2 0	
	do	Pitch boiling shed and	do	do	P	3 6	0 6	p	9 5 } vaulted	b f	850 217 3 14 1	
	do	Blacksmith's house.	do	do	P	unknown	P	0 8	10 0 } do	mud	850 217 3 14 1	
	do	do (timber yard)	do	do	P	do	P	0 6	12 0 } do & ter	b l	44,740 11,424 3 14 7	
	do	Old Dewany Jail	do	do	P	do	P	0 6	12 0 } do & ter	ter	10,346 3,509 2 15 2	
	do	Guard house	do	do	P	do	P	1 0	15 10 } ter & p s t	ter	55,391 12,996 4 4 2	
	do	Jar godown	do	double	P	2 3	P	1 0	20 6 } ter	b l	23,688 7,332 3 3 8	
	do	Principal Assistant's resi-	dence.	single	unknown	P	unknown	1 0	20 6 } do	do	13,596 2,565 5-4-9 per r. ft.	
	do	Compound wall	do	...	do	P	do	...	12 3 } ...	...	1,631 353 4-9-11 do	
	do	Revetment wall, river side	do	...	do	P	do	...	13 0 } ...	...	353 1,642 3 10 5	
	do	Lali Kotee	do	single	do	P	do	4 6	11 10 } ter	ter	6,000 1,642 3 10 5	
	do	Chest shed, No. 10	do	do	do	P	3 0	0 6	9 9 } cor	mud	29,469 8,487 3 7 6	
	do	do No. 11	do	do	do	P	3 0	0 6	9 9 } do	do	11,835 3,448 0 14 0	
	do	do No. 9 with	do	do	do	P	unknown	...	10 0 } p s t	do	14,498 0 13 0	
	do	Superintendent's Office.	do	do	do	P	do	...	8 6 } do	do	10,393 13,297 0 13 6	
	do	Plank shed No. 16	do	do	do	P	do	...	10 0 } do	do	8,263 12,070 0 10 11	
do	do No. 15	do	do	do	P	do	...	10 0 } cor	do	2,395 6,143 0 7 5		
do	Tarring shed	do	do	do	P	do	...	10 9 } do	do	7,691 6,600 1 2 8		
do	Sawyer's shed No. 13	do	do	do	P	3 0	1 0	10 9 } do	do	8,725 6,600 1 5 1		
do	do No. 14	do	do	do	P	3 0	8 6	14 9 } do	planked b l	40,021 7,190 5 9 0		
do	Saw mills	do	double	do	P	3 6	8 6	14 9 } do	...	40,021 7,190 5 9 0		

NOTE.—Buildings, 13, 25, 35 of Register are dismantled.
 * Rs. 3,963 expended between 31st May 1878, and date of completion, October 1878.
 † These sheds (10 and 11) (as shown in Register) have been dismantled and re-built.

Statement of construction, cost and length of bridges exceeding 50 lineal feet in the Bengal Presidency.

Executive Division.	Name of bridge, or of river or nullah, and situation.	Date of completion.	Description of bridge.	Kind and depth of foundation.	No. and size of spans.	Width of roadway between parapets of bridge.	Height of roadway above foundation or river-bed.	Total length of bridge.	Total cost.	Cost per 100 feet of length.	Remarks.
PATNA - PATNA SUB-DIVISION.	Kurji Bridge in 3rd mile, Bankipore and Dinapore Road.	1861	Pucca masonry	Pucca masonry—Depth of curtain wall = 5 feet.	4 spans of 14' 6" each.	Ft. In. 24 0	Ft. In. 18 0	Ft. In. 68 6	Rs. unknown ...	Rs. unknown	
	Dinapore Bullah Bridge in 7th mile.	unknown...	Ditto	Pucca masonry—Flooring 3 feet of concrete over 1 foot 8 inches of loose kunkur. Foundations go much below this.	2 of 8' 9" ... 1 of 9' 11" ... 1 of 9' 11" ... 1 of 12' 8" ...	23 9	25 0	96 6 1/2	Ditto ...	Ditto ...	One opening of 8' 9" was blocked up by silt now excavated by Irrigation Department.
	Dinapore to Khagola Road.										
	Bridge No. 1, 1st mile	Ditto	Ditto	Pucca masonry—Depth = 2 feet to springing of invert.	5 spans of 10' each.	29 9	13 6	61 4	Ditto	Ditto	
	Bridge " 3, 2nd "	Ditto	Ditto	Ditto	Pucca masonry—Depth over 4 feet.	9 spans of 10' ...	29 9	11 6	112 6	Ditto	Ditto
	Bridge " 6, 2nd "	Ditt	Ditto	Pucca masonry—Depth = 4 feet 6 inches to springing of invert.	5 spans of 10' ...	29 9	13 8	61 2	Ditto	Ditto	

{ One opening of 8' 9" was blocked up by silt now excavated by Irrigation Department.

ARNOLD HORNE
Assistant Engineer.
No. 27 P. W. D. Pruss—28.1-81—765.

C. T. STEWART, COLONEL, R. E.,
Superintending Engineer Western Circle.

J. J. O'FLAHERTY, G. E.
Executive Engineer, Patna Division.

Statement of construction, cost and length of bridges exceeding 50 lineal feet in the Hazaribagh Division.

Executive Division.	Name of bridge, or of river or nullah, and situation.	Date of completion.	Description of bridge.	Kind and depth of foundation.	No. and size of spans.	Width of roadway between parapets or railings.	Height of roadway above foundations or river-bed.	Total length of bridge.	Total cost.	Cost per 100 feet of length.	Remarks.	
BAKORTA ROAD. HAZARIBAGH. BOGDAR ROAD.	Sewary bridge on 18th mile	...	...	Rubble stone, 6½' deep ...	8 spans of 50' ...	16 4	82 6	195 0	86,658	18,700	Good order.	
	Kubri do on 17th do	...	...	Ditto, 3' do ...	2 do of 35' ...	16 4	25 0	101 0	14,352	14,210		
	West Holong on 16th do	...	...	Concrete and rubble stone, 17' deep.	2 do of 45' ...	16 4	24 0	128 0	27,894	21,400		
	East do on 14th do	1874-75	{ The abutments and piers are of rubble stone masonry, the arch and parapets, &c., are of brick-work.	Rubble stone, 6' deep ...	2 do of 35' ...	16 4	23 0	100 0	19,546	19,546		
	Jamunia on 8th do	Ditto, 7½' do ...		1 of 50' ...	16 4	27 0	136 0	20,738	20,738			
	West Satgurah on 7th do	Ditto, 6½' do ...		1 of 35' ...	16 4	18 0	65 0	7,913	14,397			
	Bogodur bridge on 1st do	Ditto, 15' do ...		3 of 25' ...	16 4	17 0	101 0	16,092	15,932			
	East Satgurah bridge	Ditto, 8' do ...		1 of 25' ...	16 4	15 8	43 0	7,828	18,200			
	Kouar bridge on 1st mile	...	...	Concrete and rubble stone 10', above 12½' piling.	3 of 30' ...	17 0	21 0	123 0	19,978	16,242		Good order.
	Bridge on 8th do	Not known	Rubble stone bridge	Not known	2 of 10' ...	19 0	12 0	51 0	Nil	...		
Botharo bridge on 12th do	1874-75	Abutments and piers are of rubble stone masonry, the arch, parapet, &c., are of brick-work.	Concrete and rubble stone, 6' deep.	2 of 50' ...	16 9	30 0	141 0	15,280	10,836			
Dhodia on 14th do	...	...	Rubble stone, 4' deep ...	2 of 50' ...	16 8	26 0	141 0	12,419	8,807			
HAZARIBAGH.	151 mile, bridge over Jhilla	Not known.	{ Rubble stone and dressed stone masonry bridge.	{	3 of 19' 2" each	21 2	18 0	139 6	{	{	In good condition.	
	165 do, do Poshoy	3 of 33' 5" do			21 3	23 0	186 0					
	163 do, do Khodia	5 of 34" do			21 6	31 0	299 0					
	165 do, Decoly bridge	3 of 18' 6" do			21 6	25 0	123 0					
	168 do, bridge over Fokerdies	2 of 29' ...			21 0	28 0	222 0					
	171 do, do Jialgarha	3 of 22' 6" ...			21 0	27 0	128 0					
	177 do, Fitkoniasorhi bridge	2 of 17' 8" ...			20 8	23 6	102 0					
	181 do, Rajah Bityay bridge	2 of 37' 4" ...			21 6	23 9	180 0					
	187 do, Bhoymadhura do	2 of 20' ...			21 2	28 0	89 0					
	187 do, Modadina do	2 of 18' 6" ...			21 2	18 0	94 0					
	188 do, Bongdarah do	3 of 21' ...	21 0	20 8	86 0							
	190 do, Kutree do	1 of 19' 3" ...	21 3	27 4	63 0							
	192 do, Bhomerduha do	3 of 29' 3" ...	21 0	26 1	187 0							
	193 do, Chinnur nullah	4 of 18' ...	21 0	13 0	131 0							
	194 do, Jhorurda bridge	3 of 20' ...	21 0	14 0	105 0							
	196 do, do	3 of 15' ...	21 3	21 3	104 0							
	198 do, Sitta nullah do	1 opening of 23' 3" ...	21 3	20 10	65 0							
	199 do, Chutter Bora do	6 of 14' 6" ...	21 0	14 0	123 0							
	200 do, Rukha do	1 of 23' ...	21 0	25 8	69 0							
	202 do, Bhagori Bhangon do	5 of 29' ...	21 0	24 0	190 0							
202 do, Iary bridge	1 of 29' ...	21 0	23 0	69 0								
207 do, bridge over Coolgo do	3 of 34' ...	21 0	30 0	174 0								
207 do, Khomeingurrah nullah	5 of 36' each	21 0	28 above river-bed	258 6	28 6	174 0						
207 do, Khomeingurrah nullah	4 of 26' do ...	20 9	20 0	143 6	20 0	143 6						

Executive Division.	Name of bridge, or of river or nullah, and situation.	Date of completion.	Description of bridge.	Kind and depth of foundation.	No. and size of spans.	Width of roadway between parapets or railings.	Height of roadway above foundations or river-bed.	Total length of bridge.	Total cost.	Cost per 100 feet of length.	REMARKS.
HAZARIBAGH.	208 mile, Bellowagurab nullah ...	1846	Rubble stone masonry bridge with parapet.	Grand Trunk Road—contd.	2 of 26' each ...	21 0	20 9	91 6	15,408	13,513	In good condition.
	211 do, Aorab do ...										
	212 do, Jemunab do ...										
	213 do, Kharab do ...										
	219 do, Kharab do ...										
	219 do, Dugla do ...										
	221 do, Chatterborowa do ...										
	225 do, Gorbura do ...										
	226 do, do river ...										
	230 do, Sarsicunda do ...										
	231 do, Palsoor do ...										
	232 do, Horratbohi do ...										
	238 do, Kobra nullah do ...										
	241 do, Burahoty do ...										
	250 do, Burakur river do ...										
	267 do, Danawa do ...										
	268 do, Gowari do ...										
	1 mile, Burhi river ...	1878	Rubble stone masonry bridge with parapet.	Berhi and Hazaribagh Road.	3 of 50' each ...	20 6	27 0	217 0	15,408	13,513	In good order.
	6 do, Kadowa nullah (No. 1) ...										
	7 do, do (No. 2) ...										
	7 do, Fechoor do ...										
	8 do, Kaola river do ...										
	10 do, Chorhi do ...										
	18 do, Sewani do ...										
	3 mile, Sukneed bridge ...										
	4 do, Khokho do ...										
	16 do, Dawn do ...										
	26 do, Iary do ...										

HAZARIBAGH, RAKHUS AND SILLES ROAD.	11 mile, Macntola bridge ...	1878	Brick masonry	Barrakur and Purulia Road.	3 of 20' ...	16 0	13 0	92 0	15,408	13,513	In good order.
	14 do, Bury do ...										
	16 do, Jharakhamar do ...										
	20 do, Oothla do ...										
	32 do, Damoy do ...										
	45 do, Purulia stream do ...										
	22 mile, Bhagajori bridge ...										
	23 do, Cosai do ...										
	Nil ...										
	Doranda Cantonment Road.										
	Doranda bridge ...										
	Bridge on the road leading to Surampore for No. 2, Doranda bridge.										

J. W. JOHNSON, C. E.

Executive Engineer, Hazaribagh Division.

SHAM LALL DASS,

Head Assistant,

For Superintending Engineer, Western Circle.

A vertical line drawing of a plant stem. The stem is thin and has several small, pointed leaves attached to it. At the top of the stem, there is a cluster of small, rounded objects, possibly flowers or fruits. The drawing is simple and appears to be a sketch or a stylized illustration.

11

Executive Division.	Locality.	Name of building.	Description and Height of Walls.										Cost.	Area.	Rate per super- ficial foot.					
			Single or double storied.	Foundation.		Plinth.	Walls (to top of wall- plate).	Roof.	Floor.											
				Concrete.	Masonry.															
										Ft. In.	Average Ft. In.									
HAZARIBAGH Division	Danwa Grand Trunk Road.	Inspection Bungalow	...	...	P	...	2 0	P	...	1 6	k p	...	11 0	thatched and tiled.	terraced	...	R.	825	...	
	Chowpatrun	do	...	...	P	...	1 0	P	...	0 6	do	...	10 6	do	do	...	400	969	0.41	
	Burhi	do	No. 1	...	b	n	1 0	p	...	...	1 6	do	...	13 0	do	do	...	1,500	3,064	0.49
	Do	do	No. 2 late	...	...	p	...	1 0	p	...	2 0	do	...	14 0	do	do	...	800	1,798	0.44
	Do	...	Dak Bungalow.	...	...	P	...	2 0	P	...	2 3	P	...	20 0	terraced	do	...	8,000	5,650	1.41
	Do	...	Telegraph Office	...	s	on	1 0	...	P	...	2 3	k p	...	13 0	thatched and tiled.	do	...	500	3,290	0.15
	Do	...	Noonsair's Kucherry	...	...	P	...	...	P	...	1 6	do	...	15 6	do	do	...	640	2,843	0.23
	Do	...	do residence	...	...	P	...	1 6	P	...	2 6	P	...	16 6	tiled	do	...	...	987	...
	Do	...	Lock-up	...	...	P	...	1 6	P	...	1 6	k p	...	14 0	thatched and tiled.	do	...	3,000	1,700	1.76
	Burkutia	...	Inspection Bungalow	...	...	P	...	1 0	P	...	1 6	k p	...	14 0	do	do	...	...	1,767	1.70
	Bogodhur	...	Dak Bungalow	...	...	P	...	2 3	P	...	1 6	do	...	14 0	do	do	...	3,000	4,280	1.17
	Do	...	Inspection Bungalow	...	...	P	...	1 9	P	...	2 0	do	...	17 3	do	do	...	5,000	1,785	1.71
	Dumri	...	Dak Bungalow	...	...	P	...	2 0	k rubble	...	1 6	do	...	8 0	do	p terraced	...	3,000	1,000	1.23
	Nimringhat	...	Inspection Bungalow	...	...	do	...	1 6	do	...	1 6	do	...	10 0	do	do	...	1,000	810	1.23
	Topechanchi	...	do	...	...	do	...	2 10	do	...	...	do	...	7 9	do	do	...	3,000	1,785	1.71
	Kandra	...	do	...	...	do	...	2 6	do	...	2 0	do	...	16 0	thatched and tiled over and partly ter- raced.	do	...	2,000	3,095.6	0.66
	Govindpore	...	Lock-up	...	...	...	...	3 0	k m	...	...	p b in mud	...	12 0	terraced	terraced	...	3,000	8,415	0.95
	Do	...	Assistant Commissioner's Court.	...	...	...	...	2 6	do	...	1 6	p b and stone in mud.	...	10 0	thatched	do	...	2,000	4,004	0.50
	Do	...	residence	...	...	do	...	2 6	...	...	0 9	do	...	12 0	do	do	...	2,500	4,675	0.54
	Borua	...	Inspection Bungalow	...	...	do	...	2 0	k r rubble masonry.	...	1 3	k r masonry	...	9 0	thatched and tiled over.	p terraced	...	1,500	986.3	1.51
Sursipooora Burhi Road.	...	do	...	...	do	...	1 0	p	...	0 6	r s do	...	13 0	do	terraced	...	not known	1,319	...	
Ouridi	...	Post Office	...	...	do	...	1 6	k p	...	1 0	k p	...	18 6	thatched and tiled.	do	...	1,403	2,177	0.64	
Do	...	Dak Bungalow	...	...	do	...	2 0	p rubble	...	1 9	p rubble	...	18 6	terraced	stone & terraced	...	11,365	3,012	3.68	
Parish Nauth Hill.	...	do	...	...	do	...	3 0	do	...	1 5	do	...	15 0	corrugated iron	terraced	...	not known	3,256	...	

[illegible][illegible]

SHAMSUNDER DASS,
Head Assistant,
for Superintending Engineer, Western Circle.

J. W. JOHNSON, C. E.,
Executive Engineer, Hazaribagh Division.

HAZARIBAGH DIVISION.—PURULIAH SUB-DIVISION.

Locality.	Name of building.	Single or double storied.	DESCRIPTION AND HEIGHT OF WALL.										Cust.	Area.	Rate per superficial foot.
			Foundation.		Plinth.	Wall to top of wall plate.	Roof.	Floor.							
			Concrete.	Masonry.											
									Average.	Ft. In.					
POLICE STATION GOURANDI.	Main bungalow	Single ...	Nil ...	Kutchia brick-work...	1 6	Kutchia brick-work faced with pucca brick.	2 0	Kutchia brick-work...	13 0	Straw thatched.	terrace ...	Rs. 1,400, as per book No. 1,462.	2,041	2,041	
	Guards' room	do ...	...	Mud wall	1 0	Mud wall	2 0	Mud wall	11 0	do	mud ...				2,976
	Stable and cook-room	do ...	...	Kutchia brick-work...	1 0	Kutchia brick wall	1 0	Kutchia brick wall	8 0	do	do				do ...	481
ROGHOMATHPORE POLICE STATION.	Main bungalow	Single ...	Nil ...	Kutchia brick-work...	1 6	Kutchia brick-work faced with pucca brick.	2 6	Kutchia brick-work...	13 0	do	terrace ...	Rs. 1,400, as per book No. 1,462.	2,041	2,041	
	Guards' room	do ...	...	Kutchia pucca and kutchia brick-work.	1 0	Kutchia brick-work...	1 6	Mud wall	11 0	do	mud ...				2,976
	Stable and cook-room	do ...	...	Mud.	1 0	Mud	1 0	Mud wall	8 0	do	do				do ...	481

P. C. DANIAHI, C. E.,
Assistant Engineer,
for Executive Engineer,
Hazaribagh Division.

ABBREVIATIONS.—p, pucca; k, kutchra pucca; p k p, pucca and kutchra pucca; d w, daub and wattle; cor, corrugated; d, dressed; ter, terraced; b l, brick in lime; b m, brick in mud; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s t, pent single tiled; p d t, pent double tiled; t, thatched; b f, brick flat; f, flagged; in, inner; o, outer; u, upper; gr, ground.

Executive Division.	Locality.	Name of building.	DESCRIPTION AND HEIGHT OF WALLS.												
			Single or double storied.	Foundation.		Plinth.	Walls (to top of wall-plate).	Roof.	Floor.	Cost.	Area.	Rate per superficial foot.			
				Concrete.	Masonry.										
													Ft. In.	Average Ft. In.	
BANGALORE.	Bangalore.	<i>Imperial buildings, Military.</i>													
		Hospital	single	...	...	...	...	...	...	...	...	...	...	...	Ra. A. P.
		Sergeant Major's Bungalow	do	p	2 0 p	2 6 p	19 0	ter	tiled	6,667	5,240	1 4 4			
		New Magazine	do	p	1 6 p	2 0 p	16 6	ter and tiled	ter and tiled	2,038	2,184	0 14 11			
		Quarter-Master Sergeant's Bungalow.	do	p	3 0 p	1 6 p	25 6	vaulted	brick-on-edge	1,192	126	9 7 11			
		Quarter Guard	do	p	1 6 p	2 0 p	15 3	ter	tiled and ter	2,039	2,380	0 13 9			
		Solitary Cells	do	p	2 0 p	1 6 p	17 0	vaulted	brick-on-edge	1,843	892	2 1 0			
		Boat guard and Armourer's shop	do	p	1 0 p	2 0 p	17 0	vaulted	do	1,312	490	2 11 9			
		...	do	p	1 0 p	2 0 kp	12 0	ter	} brick-on-edge and tiled.	853	475	1 13 8			
		...	do	p	1 0 p	2 0 kp	12 0	ter	...	760	918	0 13 3			
		<i>Civil Buildings.</i>													
		Post Office	single	...	...	...	1 6 kp	15 0	{ tiled over thatch.	ter	5,000	4,963	1 0 2		
		Bangalore.	<i>Provincial Buildings.</i>												
			Commissioner's Kucherry	single	p	1 6 p	2 0 p	19 0	ter and tiled	ter and tiled	12,540	17,662	0 11 4		
			Judge's Kucherry	do	p	1 6 p	3 0 p	21 0	do	do	28,966	18,692	1 8 11		
			Circuit House	do	p	...	4 0 p	17 0	do	ter	6,400	4,292	1 7 11		
			Collector's Court	do	p	3 0 p	3 0 p	26 0	ter	tiled	50,997	16,616	3 1 1		
	Registration Office		do	p	3 0 p	3 0 p	19 0	do	stone slab	6,891	2,800	2 6 8			
	Police Office		do	p	4 0 p	3 3 p	17 6	do	do	6,050	1,854	3 11 4			
	Moonsiff's Court		do	p	2 0 p	2 0 p	20 9	do	tiled	2,500	2,636	0 16 2			
Constable's bungalow	do		p	...	1 6 p	16 6	tile over thatch	do	2,500	2,115	1 2 10				
Bangalore.	<i>District Jail.</i>														
	Sentry box No. 1	double	p	3 0	...	19 6	vaulted	bk-on-edge	2,000	268	7 7 4				
	do do No. 2	do	p	3 0	...	19 6	do	do	2,000	227	8 12 11				
	do do No. 3	do	p	3 0	...	19 6	do	do	2,000	323	6 3 0				
	do do No. 4	do	p	3 0	...	19 6	do	do	2,000	254	7 14 0				
	do do No. 5	do	p	3 0	...	19 6	do	do	2,000	283	7 1 0				
	Jailor's residence	single	k	p	...	19 6	tiled	ter	2,100	2,333	0 14 5				
	Malkhanah and Jailor's Office.	do	p	1 6 p	1 0	14 0	do	do	8,378	2,160	1 9 0				
	Criminal ward	...	p	...	...	...	ter	do	30,738	12,230	3 3 11				
	Tread-mill shed	single	p	2 0	...	18 6	tiled	mud	4,103	4,204	0 15 7				

Executive Division.	Locality.	Name of building.	Description and Height of Walls.										Cost.	Area.	Rate per super- ficial foot.		
			Single or double storied.	Foundation.		Plinth.	Walls (to top of wall- plate.)	Roof.	Floor.								
				Concrete.	Masonry.												
Bhagultowne - concluded. Godda	{	Assistant Commissioner's Kucherry.	single	...	Average, Ft. In.	...	Average, Ft. In.	2 0	1 p	...	20 0	ter	...	Rs.	4,840	1,822	2 6 1
		do Bungalow	do	...	...	...	...	1 0	do	...	18 0	thatched	...	do	5,646	2,104	2 10 11
		First class Lock-up— Main building	do	...	...	...	...	2 6	p	...	15 0	pent ter	...	brick-on-edge			
		Compound wall	...	...	...	...	...	12 0	p	...	...	...	...	...			
		Cook-house No. 1	single	...	...	...	...	1 0	p	...	7 0	p tiled	...	mud			
		do	do	...	...	...	...	1 0	p	...	7 0	do	...	do			
		Day privy No. 1	do	...	...	...	...	...	...	...	...	...	...	p			
		do	do	...	...	...	...	...	...	...	...	...	...	do			
		do	do	...	...	...	...	...	...	...	...	...	...	do			
		Well	...	...	...	...	...	...	...	...	...	...	...	p			
																8,024	8,325	0 15 9

C. T. STEWART, Colonel R. E.,
Superintending Engineer, Western Circle.

W. CONNAN, C. E.,
Executive Engineer, Bhagulpore Division.

Statement of construction, cost and length of bridges exceeding 50 lineal feet in the Bhagulpore Division.

Executive Division.	Name of bridge, or of river or nullah, and situation.	Date of completion.	Description of bridge.	Kind and depth of foundation.	No. and size of spans.	Width of roadway between parapets or railings.	Height of roadway above foundations or river-bed.	Total length of bridge.	Total cost.	Cost per 100 feet of length.	Remarks.
BHAGULPORE.	Bridge No. 11 on the 23rd mile, Hurdha, over the River Kura Kosse.	Mar 1876 ...	Iron plate girder bridge...	Foundation on screw piles; average depth 20 feet.	14 spans, each 30 feet in length.	10 3	Average height, 21 feet above river bed.	Ft. In. 420 0	Rs. 51,653	Rs. 12,298	Only Rs. 5,801 shown as expenditure in this Office Register.
	Bridge No. 15 on the 30th mile over the river Sowrah.	do ...	The centre portion 258 feet in length is of iron plate girder. The two sides are of wood.	do do 15 " "	6 spans of 43 feet each in the centre, and 3 of 23 feet 3 inches on each side.	13 8	do 33 feet do	Ft. In. 397 4	Rs. 5,801	...	
	Bridge No. 18 on the 33rd mile.	Nov 1876 ...	Iron plate girder bridge...	do do 14 " "	8 spans of 27 feet 3 inches each.	11 2½	do 6 " do	Ft. In. 81 9	Rs. 11,123	13,606	
	Bridge No. 19 on the 33rd mile.	do ...	do	do do 8 " "	do	11 2½	do 10 " above bed.	Ft. In. 81 9	Estimated, 11,615	14,208	
	Bridge No. 22 on the 38th mile.	Aug 1876 ...	do	do do 10 " "	do	11 8	do 10 " do	Ft. In. 81 9	Estimated, 9,332	12,149	
	Bridge No. 23 on the 38th mile.	Jan 1877 ...	do	do do 15 " "	4 spans of 30 feet each.	11 6	do 8 " do	Ft. In. 120 0	Estimated, 7,169	6,968	
	Bridge No. 24 on the 41st mile—Bolgatchee over the river Fanar.	do ...	The centre portion measuring 240 feet is of Warren girder, and the two sides are of plate girder.	do do 30 " "	4 spans of 60 feet each in the centre, and 2 of 30 feet each on each side.	20 2½	do 25 " do	Ft. In. 360 0	Estimated, 86,898	24,138	
	Bridge No. 28 on the 42nd mile.	do ...	Iron plate girder bridge	do do 20 " "	7 spans of 30 feet each.	11 7	do 20 " do	Ft. In. 210 0	Rs. 19,260	9,171	
	Bridge No. 29 over the Borah nullah on the 43rd mile.	March 1877	do	do do 28 " "	17 spans of 30 feet each.	11 6	do 20 " do	Ft. In. 510 0	Rs. 58,676	11,505	
	Bridge No. 31 on the 44th mile.	Sept 1876 ...	do	do do 28 " "	8 spans of 30 feet each.	11 2	do 20 feet do	Ft. In. 210 0	Rs. 13,193	6,497	
	Bridge No. 32 over Byee nullah on the 45th mile.	Jan 1877 ...	The centre portion measuring 189 feet is of Warren girder, and the two sides are of plate girders.	do do 28 " "	3 spans of 60 feet each in the centre and 1 of 30 feet on one side, and 2 of 30 feet each on the other side.	20 2½	do 25 " do	Ft. In. 270 0	Rs. 59,582	21,697	
	Bridge No. 34 on the 46th mile.	March 1876	Iron plate girder bridge	do do 7 " "	3 spans of 30 feet each.	11 6	do 13 " do	Ft. In. 90 0	Estimated, 6,000	6,222	
	Bridge No. 35 on the 46th mile.	do ...	do	do do 10 " "	do	10 0	do 8 " do	Ft. In. 90 0	Estimated, 4,882	5,424	
	Bridge No. 36 over the Mivsalah nullah on the 47th mile.	Nov 1876 ...	do	do do 12 " "	9 spans of 30 feet each.	10 0	do 6 " do	Ft. In. 270 0	Rs. 22,627	9,380	
	Bridge No. 37 on the 48th mile.	March 1876	do	do do 20 " "	3 spans of 30 feet each.	10 0	do 10 " do	Ft. In. 90 0	Rs. 4,795	5,328	
	Bridge No. 38 over Furwas nullah on the 49th mile.	do ...	do	do do 20 " "	8 spans of 30 feet each.	10 0	do 21 feet do	Ft. In. 240 0	Estimated, 73,591	6,080	

Executive Division.	Locality.	Name of building.	DESCRIPTION AND HEIGHT OF WALLS.										Cost.	Area.	Rate per superficial foot.		
			Single or double storied.	Foundation.		Plinth.	Walls (top of wall plate).	Roof.	Floor.								
				Concrete.	Masonry.												
BHAUGPUR—could	Dingra	Imperial Buildings.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
		Post Office	single	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Provincial.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Dak Bungalow	single	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Provincial Buildings.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Maldah	Court house	partly double and partly single	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Old Residency	do	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Stable to ditto	single	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Treasure guard	do	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Police office	do	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Maldah	Public Works godown, Municipal godown and Road Cess District Engineer's godown	do	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	Circuit house	do	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	Cook-house	do	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	Civil Surgeon's office	do	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	School house	do	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
Maldah	Jail buildings	do	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	Jail hospital	do	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	Hajat ward	do	...	...	...	...	...	...	...	...	...	...	...	...	...	...	

C. T. STEWART, Colonel, R. E.,
Superintending Engineer, Western Circle.
No. 27, P. W. D. Press—28-1-81—765.

W. CONNAN, C. E.,
Executive Engineer, Bhaurpore Division.

DURDHANGA DISTRICT SUB-DIVISION.

ABBREVIATIONS—P, pucca; k, p, kutchha pucca; p, k p, pucca and kutchha pucca; d, w, daub and wattle; cor, corrugated; d, dressed; ter, terraced; b, l, brick in lime; b, m, brick in mud; r, rubble; c, r, coursed rubble; d, s dry stone; c, concrete; p, s, t, pent single tiled; p, d, t, pent double tiled; t, thatched; b, f, brick flat; f, flagged; in, inner; o, outer; u, upper; gr, ground.

Executive Division.	Locality	Name of building.	DESCRIPTION AND HEIGHT OF WALLS.										Cost.	Area.	Rate per superficial foot.	
			Single or double storied.	Foundation.		Plinth.	Walls (to top of wall-plate.)	Roof.	Floor.							
				Concrete.	Masonry.											
										Average. Ft. In.	Average. Ft. In.					
Medhobunry do	Court house	single	nil	...	p	...	1 6 p	...	2 0 p	10½' & 16'	ter p s t	...	...	4,209	2,412	174
	do	do	nil	...	...	...	2 0 p	...	2 0 p	13½' & 9'	...	...	not known	2,738		
	do	do	nil	...	p	...	2 0 p	...	2 0 p	16½' & 20½'	do	...	do	...	621	
	do	do	nil	...	p	...	2 0 p	...	2 0 p	10½' & 16½'	ter	...	4,209	2,378		
	do	do	nil	...	p	...	2 0 p	...	2 0 p	9½' & 14½'	p s t	...	2,280	3,738		
	do	do	nil	...	p	...	2 0 p	...	2 0 p	16½' x 20'	do	...	1,860	857		
	do	do	nil	...	p	...	1 6 p	...	1 9 p	10½' & 16½'	ter	...	2,431	2,421		
	do	do	nil	...	p	...	1 6 p	...	2 0 p	13½' & 9'	ter	...	2,700	2,700		
	do	do	nil	...	p	...	1 9 p	...	2 0 p	16½' & 20'	do	...	1,600	624		
	do	do	nil	...	p	...	1 9 p	...	2 0 p	16½' & 8'	ter & p s t	...	4,100	9,570		0-43
	do	do	nil	...	p	...	1 6 p	...	2 0 p	16½' & 8½'	p s t	...	not known	1,849		
	do	do	nil	...	p	...	1 6 p	...	2 0 p	14½' & 10'	do	...	do	1,988		
	do	do	nil	...	do	...	1 3 k p	...	1 6 k p	13½' & 6'	do	...	do	3,824		
	do	do	nil	...	do	...	2 0 k p	...	1 3 k p	16½' & 8'	ter & p s t	...	do	3,315		
	do	do	nil	...	p	...	1 3 p	...	1 0 p	13½' & 19'	t	...	do	12,768		
	do	do	nil	...	p	...	1 3 p	...	1 0 p	13½' & 19'	t	...	do	8,540		
	do	do	nil	...	p	...	1 3 p	...	1 0 p	13½' & 19'	t	...	do	8,692		
	do	do	nil	...	p	...	1 3 p	...	1 0 p	13½' & 19'	t	...	do	8,945		
	do	do	nil	...	p	...	1 3 p	...	1 0 p	13½' & 19'	t	...	do	8,768		
	do	do	nil	...	p	...	1 3 p	...	1 0 p	14½' & 20'	p s t	...	do	26,112		
	do	do	nil	...	p	...	1 3 p	...	1 0 p	13½' & 19'	do	...	do	13,081		
	do	do	nil	...	p	...	1 3 p	...	1 0 p	13½' & 19'	p s t	...	do	23,880		
	do	do	nil	...	p	...	1 3 p	...	1 0 p	14½' & 20'	do	...	do	27,307		
	do	do	nil	...	p	...	1 3 p	...	1 0 p	13½' & 19'	t	...	do	8,948		
	do	do	nil	...	p	...	1 3 p	...	1 0 p	13½' & 19'	t	...	do	5,845		
	do	do	nil	...	p	...	1 3 p	...	1 0 p	13½' & 19'	t	...	do	3,657		0-8 per foot
	do	do	nil	...	p	...	1 3 p	...	1 0 p	13½' & 19'	t	...	2,800			
	do	Hospital, stable No. 1	do	...	p	...	1 3 p	...	1 0 p	13½' & 19'	t	...	...			

• Since made pucca by the firm.
N. E.—The cost and area of all the buildings are taken from the register.

J. J. O'FLAHERTY, C. E.,
Executive Engineer, Patna Division.

C. T. STEWART, Colonel, R. E.,
Superintending Engineer, Western Circle.

Statement of construction, cost, and length of bridges exceeding 50 lineal feet in the Durbhanga Sub-Division.

Executive Division.	Name of bridge, or of river or nullah, and situation.	Date of completion.	Description of bridge.	Kind and depth of foundation.	No. 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.
				Nil.							

J. J. O'FLAHERTY, C. E.,
Executive Engineer, Patna Division.

27, P. W. U. Press—28.1.81—765.

[For Heads of Departments only.]

Circular No. III Public Works.

GOVERNMENT OF INDIA.

PUBLIC WORKS DEPARTMENT.

CIVIL WORKS.

Miscellaneous.

To

THE GOVERNMENTS OF MADRAS, BOMBAY, BENGAL, NORTH WESTERN PROVINCES AND
 OUDH, AND PUNJAB, IN THE PUBLIC WORKS DEPARTMENT.
 THE CHIEF COMMISSIONERS, CENTRAL PROVINCES, BRITISH BURMAH, AND ASSAM.
 THE RESIDENT AT HYDERABAD.
 THE AGENTS TO THE GOVERNOR GENERAL FOR CENTRAL INDIA, RAJPUTANA AND
 BILUCHISTAN.
 THE ACCOUNTANT GENERAL, PUBLIC WORKS DEPARTMENT.
 THE INSPECTOR GENERAL OF MILITARY WORKS.
 THE DIRECTOR GENERAL OF RAILWAYS.
 THE FOREIGN DEPARTMENT, FOR COMMUNICATION TO CHIEF COMMISSIONER OF
 MYSORE AND COORG.

Fort William, January 27, 1881.

In continuation of Circular No. XXXIII P W, dated the 23rd October 1880, the undersigned is directed to forward herewith, for information, the following statements of areas and cost of buildings, and memorandum of construction and cost of bridges exceeding 50 feet in length :—

For the Western and Orissa Circles in the Bengal Presidency.

W. P. TOMKINS, Captain, R. E.,
 Asstt. Secy. to the Govt. of India.

(90) J.P.

CIVIL WORKS.
Miscellaneous.

Received

5752

STANDARD DIVISION.

Division.	Locality.	Name of building.	DESCRIPTION AND HEIGHT OF WALLS.										Cost.	Area.	Rate per superficial foot.
			Single or double storied.	Foundation.		Plinth.	Walls (to top of wall- plate.)	Roof.	Floor.						
				Concrete.	Masonry.										
Durgabazar	Judge's Court— Office or main building Moonsiff's Court Stable College	single do do single	stone do do p	4 0 2 0 2 6 3 5	stone do do p	4 0 2 0 2 6 3 5	10 9 18 6 18 6 16 9	9,000 p tile 9,398 ter { 1,419 ter 2,046 p tile pantile ... } { 6,160 p tile 900 ter 6,000 t	37,000 0 0 7,000 0 0 1,113 0 0 26,498 0 0	8. ft. 18,500 3,500 1,113 3,248	Rs. A. P. 2 0 0 2 0 0 2 0 0 2 0 0				
Balcoobazar	Normal School.	single	p	3 0	p	1 5	16 9	{ 6,160 p tile 900 ter 6,000 t	26,498 0 0	3,248	2 0 0				
Fakirtakia	Library and Goorn class Training school Head Master's quarter Boarding-house Distillery.	single do do do single	p p stone kp p	3 0 3 0 3 5 1 5 3 0	p kp stone kp p	2 0 2 3 0 8 1 0 0 6	17 0 13 5 13 0 8 0 7 0	ter pantile. ter do mud mud	3,680 0 0 4,369 0 0 1,613 0 0 3,234 0 0 8,160 0 0	1,840 4,369 1,008 4,312 8,160	2 0 0 1 8 0 1 8 0 0 13 0 1 0 0				
Kisenpore	Distillery Staging Bungalow.	single single	p p	3 0 3 0	p kp	0 6 0 10	7 0 11 8	ter ter	8,160 0 0 8,201 0 0	8,160 2,134	1 0 0 1 8 0				
Kurmanga Mut	Main building Cook-room Stable Church.	do do do do	kp kp do kp	1 3 1 8 1 8 2 6	kp kp do stone	0 5 0 5 0 5 1 7	6 5 11 0 6 5 17 6	pantile do pantile t and ter	300 12 0 268 12 0 329 4 0 20,275 0 0	621 215 329.3 5,068.9	... 1 4 0 ... 4 0 0				
Gudgudia	Chowkedar's shed and godown Inspection bungalow— Main building Out-house	single do single do	stone kp stone kp	2 6 1 0 2 3 2 0	kp kp kp kp	1 6 1 7 2 11 8 0	17 6 6 0 18 0 8 0	stone paving ter ter do	20,275 0 0 329 4 0 1,035 0 0 357 8 0	5,068.9 329.3 1,035 715	4 0 0 1 0 0 1 0 0 0 8 0				
Toolipore	General Hospital.	double single do													

DIVISION—continued.

Durgabazar	Entrance, Office and godown	single	...	...	stone	3 0	...	...	16 3	ter	803 tiled 803 ter	5,250 0 0	2,658	2 8 0
	Constable's accommodation	do	...	...	k p	2 0	k p	1 6	10 6	t	...	647 4 0	863	0 12 0
	Warder's sleeping accommodation	do	...	...	do	2 6	do	1 0	9 8	pan tile	...	1,185 0 0	1,185	1 0 0 0
	Do No. 2	do	...	...	p	4 0	...	...	11 9	ter	...	621 4 0	497	1 4 0 0
	Do cook-room	do	...	...	k p	2 6	k p	0 6	8 3	pan tile	...	477 12 0	477.9	1 0 0 0
	Jailer's quarters	do	...	...	{ p stone	1 0	{ p stone	1 0	11 0	ter	...	5,998 8 0	999	1 8 0 0
	Solitary Cell No. 1	do	...	...	stone	3 6	stone	0 6	10 6	do	...	603 4 0	401.6	1 8 0 0
	Do No. 2	do	...	...	p	3 6	...	2 6	10 6	do	...	1,338 4 0	892	1 8 0 0
	Habit and women's ward	do	...	...	p	3 3	p	1 3	12 6	do	...	6,600 0 0	2,800	2 0 0 0
	Unkhy shed	do	...	...	p	1 6	...	...	8 0	do	...	227 0 0	227	1 0 0 0
	Cook-room	do	...	...	p	...	...	...	6 0	pan tile	...	464 1 0	618.9	0 12 0 0
	European ward	do	...	...	...	...	...	...	10 6	ter	...	1,512 0 0	758	2 0 0 0
	Godown	do	...	...	p	...	p	0 6	9 10	do	...	217 0 0	108.6	2 0 0 0
	Workshed	do	...	...	p	3 0	p	0 7	4 0	pan tile	...	371 0 0	371	1 8 0 0
	Do No. 2	do	...	...	stone	3 0	stone	1 6	9 6	do	...	519 8 0	1,039	0 8 0 0
	Do dhenny and oil shed	do	...	...	do	3 0	do	0 6	3 0	ter	...	4,176 0 0	4,176	1 0 0 0
	General ward	do	...	...	do	3 0	do	0 6	13 8	do	...	1,396 0 0	2,792	0 8 0 0
	Condemned cell	do	...	...	do	2 0	p	0 6	2 0	{ p stone	...	23,206 0 0	11,603	2 0 0 0
	A godown in Hissat ward	do	...	...	p	3 0	p	0 3	7 3	do	...	253 8 0	169	1 8 0 0
	Privy	do	...	...	k p	1 6	...	...	7 0	do	...	264 0 0	264	1 0 0 0
	Cook-room in female ward	do	...	...	p	1 6	...	...	7 6	do	...	94 0 0	94	1 0 0 0
	Day privy	do	...	...	p	...	...	...	7 6	do	...	225 0 0	225	1 4 0 0
	Hospital	do	...	...	k p	1 6	k p	1 0	4 6	pan tile	...	665 8 0	794	0 12 0 0
	Dead-house	do	...	...	stone	3 0	stone	1 3	14 0	ter	...	8,374 0 0	4,187	2 0 0 0
	Dissecting-room	do	...	...	do	...	do	1 10	10 5	do	...	1,022 0 0	611	2 0 0 0
	Cook-room	do	...	...	p	1 9	...	...	7 8	do	...	294 0 0	294	2 0 0 0
	Privy	do	...	...	p	1 6	...	...	8 0	do	...	300 0 0	300	1 0 0 0
	Civil prisoners' lock-up	do	...	...	p	2 6	p	0 5	7 5	do	...	89 0 0	89	1 0 0 0
	Cook-room	do	...	...	k p	2 6	k p	1 0	11 0	t	...	631 8 0	643	0 13 0 0
		do	...	...	...	...	do	0 5	6 9	ter	...	81 0 0	108	0 12 0 0
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MAHARAJA

Continued.

REARMED-BYTBRE DIVISION.

Division.	Locality.	Name of building.	DESCRIPTION AND HEIGHT OF WALLS.										Cont.	Area.	Rate per superf- cial foot.			
			Single or double storied.	Foundation.		Plinth.	Walls (to top of wall- plate.)		Roof.	Floor.								
				Concrete.	Masonry.		Ft. In.	Ft. In.		ter.	do							
												Ft. In.				Ft. In.		
BEARINI-BYRANTI DIVISION—(continued).	Kendrapara	PROVINCIAL																
		Civil Buildings.																
		Lock-up ...	single ...	0 ...	1 3 b1	...	2 0 b1	...	2 6 b1	...	17 0 t	...	...	74 0 0	556	0 2 1		
	Bhuddruck	Sub-divisional Officer's residence	...	0 ...	3 0 do	...	3 9 do	...	2 0 do	...	13 0 t	...	...	794 0 0	3,378	0 14 11		
		Kucherry ...	...	...	...	...	3 0 do	...	1 6 do	...	17 0 p	...	...	3,094 0 0	2,249	0 14 8		
		Kucherry ...	...	...	...	...	2 0 p	...	2 6 p	...	16 0 ter	...	...	8,954 0 0	3,113	2 14 0		
		Double storied building	double ...	...	...	...	3 0 p	...	2 0 p	...	33 0 do	...	...	6,124 0 0	1,669	3 10 8		
	Jajepore	Sub-divisional residence	single ...	...	1 0 b1	...	1 0 p	...	1 0 k p	...	18 9 t	...	...	1,737 0 0	6,677	0 4 2		
		Lock-up ...	do ...	...	...	...	2 0 p	...	3 0 p	...	16 6 t	...	...	3,400 0 0	663	4 15 8		
		Pilgrim hospital	do	...	1 0 b1	...	1 0 p	...	1 9 p	...	14 0 t	...	...	1,471 0 0	3,990	0 6 11		
Balasore	Kucherry ...	do ...	...	...	...	3 0 p	...	1 6 p	...	17 3 ter	...	...	4,907 0 0	3,625	1 5 11			
	Lock-up ...	do	...	...	...	2 0 p	...	3 0 p	...	16 6 t	...	...	3,300 0 0	663	5 7 3			
	Sub-divisional residence	do	...	...	...	3 0 p	...	2 0 p	...	18 0 t	...	...	2,336 0 0	2,830	0 14 8			
	Kucherry and other Courts	do	...	...	...	3 0	...	3 0 b1	...	19 0 flat	...	...	25,000 0 0	15,900	1 9 2			
BEARINI-BYRANTI DIVISION—(continued).	Balasore	Circuit house	do	...	...	1 6 p flat	...	1 6 do	...	18 0 do	...	...	4,000 0 0	5,532	0 10 9			
		Out-houses to do	do	...	...	...	2 6	...	3 do	...	8 0 do	...	...	15,000 0 0	67,050	0 3 7		
		Jail wards ...	double ...	...	...	...	3 0	...	2 3 do	...	2 6 do	...	...	7,638 0 0	4,801	1 4 5		
		Government School	...	...	...	...	3 0	...	1 0 do	...	14 0 p	...	...	4,207 0 0	2,340	1 12 9		
BEARINI-BYRANTI DIVISION—(continued).	Balasore	Normal School	...	...	...	2 6	...	1 0 do	...	14 0 p	...	...	...	...	...	...		
		...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	

No. 27—P. W. D. Press—28-1-81—765.

R. H. RHIND, C. E.,
Superintending Engineer, Orissa Circle.

Statement of construction, cost and length of bridges exceeding 50 lineal feet in the Mahanadi Division, Orissa Circle.

Executive Division.	Name of bridge, or of river or nullah, and situation.	Date of completion.	Description of bridge.	Kind and depth of foundation.	Number and size of spans.	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.
Mahanadi Division, Khordhah Sub-Division ...	GANJAM ROAD. Bridge No. 11 over Bearing nullah	...	Semi-circular arch of laterite	5' deep. Over concrete laterite masonry.	12 spans of 15½' each ...	20' 9"	17'	251'	...	...
Do	Do No. 13 over Jungligaria	...	Do	5' deep. Laterite masonry.	4 do of 16'	20' 9"	16'	87'	...	...
Do	Do No. 23	...	Segmental arch of laterite masonry	4' do.	4 do of 11½' each ...	21' 5"	12'	74'	...	...
Do	Do No. 25	...	Do	4½' do.	4 do of 15' do ...	21'	16'	87½'	...	...
Do	Do No. 32	...	Segmental arch of sand stone and laterite mixed.	7' do.	3 do of 16' do ...	15' 6" between parapets.	20' from floor level.	100'	...	...
Do	Do No. 38 over the Thadrim nullah Royou.	...	Do	4' do.	3 do of 20' do ...	15' 3" do do	24' 6" do	83'	...	...
Do	Do No. 48	...	Semi-circular arch of laterite masonry.	7' do.	6 do of 13' do ...	16'	14'	78'	...	...
Do	Do No. 106	...	Segmental arch of laterite stones	1' 6" do.	3 do of 10' 3" ...	17' 1"	15' 1"	61' 2"	...	...
Do	Do No. 108 near Jenkia	...	Do	1' 2" do.	1 span of 18' 5" ...	18'	16' 6"	61' 6"	...	...
Do	Do No. 127	...	Do	1½' and is nearly laid on earth.	1 do of 18½'	17½'	8' 2"	50½'	...	...
Do	Do No. 130	...	Do	Foundation's depth 2', and do do.	1 do of 19½'	17½'	10'	61'	...	...
Do	Do No. 135	...	Do	2' 7" and do do	1 do of 20'	16' 5"	9' 6"	80' 3"	...	...
Do	Do No. 138	...	Do	1' 9" do	3 spans of 15½' each ...	15' 5"	12' 9"	66'	...	...
Do	Do No. 139	...	Do	2' deep. Laterite masonry.	3 do of 15' 10" do ...	16'	16' 7"	66' 9"	...	...
Do	Do No. 141 over Jeggenathpore nullah.	...	Do	1½' on hard earth	3 do of 15½' do ...	16' 2"	10' 6"	65' 7"	...	...
Do	Do No. 143 over Kusmel River	...	Do	6' deep. Laterite masonry.	7 do of 20' do ...	14' 10"	19' 8"	217'	...	...
Do	Do No. 155	...	Do	1½' on hard earth	1 span of 20' 2" ...	17' 1"	11'	60½'	...	...
Do	Do No. 161 over Koilpullah nullah.	...	Do	2½' on kunkur and ghooling.	3 spans of 20' each ...	14' 5"	14½'	80' 2"	...	...
Do	Do No. 177 over Ghubdeah nullah.	...	Semi-circular arch of laterite masonry.	6' and is nearly laid on earth.	1 span of 15' 2" ...	17' 11"	12' 4"	63' 7"	...	...
Do	Do No. 178	...	Segmental arch of laterite masonry	4½' deep	3 spans of 12' 5" ...	17' 5"	12' 7"	63' 9"	...	...
Do	Do No. 181	...	Do	4½' deep. Laterite masonry.	3 do of 16½'	15½'	17½'	63'	...	...
Do	Do No. 221	...	Do	3' do.	3 do of 20' 2" ...	16' 1"	14½'	80' 8"	...	...
Do	Do No. 230 over Juri nullah	...	Do	1' 5" on kunkur and stones.	2 do of 20' each ...	15'	22' 6"	131' 9"	...	...

Value could not be got from the records in Port.

Executive Division.	Name of bridge, or of river or nullah, and situation.	Date of completion.	Description of bridge.	Kind and depth of foundation.	Number and size of spans.	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.
PURA ROAD.										
Mahanadi Irrigation Division.	Bridge No. 8 in the 8th mile of the road, Mouza Ramnagar.	...	Laterite masonry	5' Laterite masonry	3 of 20' 9" x 12" each	17' 8"	13' 9"	51' 6"	Rt. 2,553	Ra. A. P. 4,959 4 8
Do	Do No. 6 in the 10th mile of the road, Prachee river (Mouza Fulakra).	...	All brick masonry, but the north wing which consists of laterite masonry.	5' Brick	3 of 23' 6" x 23' do	18' 6"	22'	79'	5,523	6,957 0 4
Do	Do No. 31 in the 38th mile, Mutha River (Mouza Satto Sunko).	...	Laterite masonry	5' Laterite do	7 of 21' x 8' do	19'	12'	97'	4,299	4,433 13 8
Do	Do No. 40 in the 47th mile (Mouza Alunda).	...	Do	5' Do do	3 of 21' x 12' do	17' 3"	14'	56'	3,515	6,270 9 0
Do	Do No. 41 in the above mile (Dhandia Nullah).	...	Wooden bridge on wooden posts	...	1 of 100' x 11'	9' 8"	15' 6"	100'	2,550	2,550 0 0
Do	Do No. 45 in the 51st mile on the Hoolkulia Nullah, Atra Nullah.	...	Sand and laterite, stone masonry	7' Masonry	19 of 37 1/2' x 7' each	24'	19'	290'	15,675	5,370 13 4

No. 27, P. W. D. Press-28-1-81-755.

J. MACMILLAN,
Executive Engineer, Mahanadi Irrigation Division.

Statement of construction, cost, and length of bridges exceeding 50 lineal feet on the Orissa Trunk Road in the Bramini and Byturni Division, Orissa Circle.

Executive Division.	Name of bridge, or of river or nullah, and situation.	Date of completion.	Description of bridge.	Kind and depth of foundation.	No. and size of spans.	Width of roadway between parapets or railings.	Height of roadway above foundations or river-bed.	Total length of bridge.	Total cost.	Cost per 100 feet of length.	REMARKS.
BRAMINI-BYTURNI DIVISION.	No. 1 bridge over Ordes Moolat Chaspara.	Not known...	Laterite masonry of 5 openings.	Pucca masonry, depth not known.	2 of 12' 6"	17' 8"	12' 6"	78' 6"			
	No. 6 bridge over Gandanais at Noonticree.	do	Brick masonry of 5 openings...	do	3 of 7' 6"	17' 3"	16' 0"	78' 5"			
	No. 15 bridge over Badakhia nullah at Tanges.	do	Do of 4 do	do	3 of 11' 6"	18' 0"	13' 5"	61' 5"			
	No. 28 bridge over Nulab Jore nullah.	do	Do of 3 do	do	3 of 14' 7"	18' 0"	17' 6"	85' 0"			
	No. 37 bridge over Byree nullah.	do	Do of 6 do	do	3 of 13' 9"	18' 0"	18' 0"	88' 0"			
	No. 41 bridge at Hasanabad ...	do	Do of 4 do	do	4 of 14' 7"	18' 0"	17' 2"	85' 0"			
	No. 47 bridge over Ramjorish Soongrah.	do	Laterite masonry of 4 openings.	do	2 of 7' 9"	18' 0"	12' 0"	69' 0"			
	No. 53 bridge over Coomaree Pathjore at Kunglepore.	...	Brick masonry of 6 openings.	do	2 of 12' 6"	19' 0"	14' 0"	81' 0"			
	No. 57 in 34th mile from Cuttack Gubakhada nullah.	...	Laterite and sandstone masonry, Gothic arch.	...	7 spans 11' 6" each.	18' 0"	14' 9"	152' 6"			
	No. 60 in 36th do Noonis nullah.	...	Brick masonry, segmental arch	...	9 do 15' each	18' 0"	19' 0"	183' 0"			
	No. 63 in do do Bonomallypore.	...	Do do	...	3 do 15' do	17' 0"	17' 0"	176' 0"			
	No. 63 in do do Bili-pudla.	...	Do do	...	3 do 15' do	18' 0"	19' 0"	81' 0"			
	No. 65 in 37th mile do Khunditpur.	...	Do do	...	12 do 15' do	18' 0"	18' 6"	240' 0"			
	No. 66 in 38th do do Makinda Bunda.	...	Do do	...	3 do 15' do	17' 9"	14' 6"	68' 0"			
	No. 67 in 39th do do Tickor No. 69 in 43rd do do Boodlakha nullah.	...	Do do	...	4 do 15' do	18' 0"	19' 6"	91' 0"			
	No. 71 in do do Puthur-pudla Jore.	...	Brick and sandstone masonry, Gothic arch.	...	2 do 17' do	17' 0"	16' 0"	61' 0"			
	No. 73 in 45th do Kant river No. 1 in 46th mile from Cuttack Byturni river left.	...	Brick masonry, segmental arch	...	3 do 10' do	18' 0"	17' 3"	57' 0"			
	No. 8 in 49th mile from do do No. 6 in 51st do do do...	...	Do do	...	8 do 15' do	18' 0"	20' 6"	162' 0"			
	No. 11 in 56th do do across Ribbo nullah.	...	Do do	...	6 do 20' do	18' 6"	22' 0"	165' 0"			
	No. 12 in do do...	...	Do do	...	8 do 20' do	18' 6"	69' 9"	203' 0"			
	No. 15 in 68th do across Chotakopali.	...	Do do	...	6 do 15' do	17' 6"	16' 0"	116' 0"			
	No. 22 in 61st mile across Chotakopali Salundi bank.	...	Do do	...	4 do 15' do	17' 3"	15' 6"	114' 0"			
		...	Do do	...	8 do 15' do	18' 6"	23' 3"	62' 6"			
		...	Do do	...	5 do 20' do	18' 0"	23' 6"	154' 6"			

Executive Division.	Name of bridge, or of river or nullah, and situation.	Date of completion.	Description of bridge.	Kind and depth of foundation.	No. and size of spans.	Width of roadway between parapets or railings.	Height of roadway above foundations or river-bed.	Total length of bridge.	Total cost.	Cost per 100 feet of length.	REMARKS.
	No. 23 in 61st mile across Chotakopali Saluadi bank.	Unknown	Brick masonry, segmental arch	Unknown	3 spans 15' each.	15' 0"	15' 9"	62' 9"			
	Bridge No. 30 Tulunger bridge or Sanamoo nullah.	do	6 spans of segmental arches, and the flow construction is flat and of brick masonry.	do	6 of 19' 6" each.	18' 0"	17' 6"	135' 6"		...	The whole work of this bridge is of brick masonry and in good order.
	Kanabau river bridge No. 47 in 4th quarter, 29th mile.	do	5 spans of segmental arches; construction of flow is flat and the whole of brick masonry.	do	5 of 22' each	18' 0"	23' 6" do	124' 4"		...	Do
	Do No. 48 do	do	4 spans of segmental arches, and the flow construction is of inverted arches of brick masonry.	do	5 of 21' 6" each.	18' 8"	21' 6" do	127' 0"		...	The construction of flow is inverted arches of brick masonry, the whole in good order, but one arch near the north abutment is cracked near the key-stone.
	Do No. 49 do	do	6 spans of segmental arches and the flow construction is flat, and made of laterite stones.	do	6 of 16' 6" each.	18' 3"	29' 0" do	136' 0"		...	The construction of the flow is laterite, also the piers; remaining work in good order.
	Dairadd bridge No. 60 in 21st mile, 1st quarter, Dodninh nullah.	do	8 spans of segmental arches. The flow construction is flat, and the whole brick masonry.	do	6 of 8' each	18' 0"	20' 0" do	72' 0"		...	The whole work of the bridge is brick masonry and in good order.
	Annuliah bridge No. 87, 12th mile, 4th quarter.	do	4 spans of semicircular arches; the flow constructed is flat, and whole brick masonry.	do	4 spans of which 2 of 8' 6" and 2 of 10' 6" of 16' each	17' 0"	16' 0" do	50' 6"		...	This was an old Mahatta bridge of 2 spans; it was lengthened by Government in 1864 into 4 spans.
	Neamboe nullah bridge No. 96, 7th mile, 3rd quarter, south.	do	2 spans of semicircular arches and 3 of segmental arches, brick masonry.	do	4 of 16' each	18' 0"	16' 0" do	71' 0"		...	Do
	No. 101 bridge in 1st mile, north of Balasore.	do	Brick masonry	do	19 of 19' each	17' 0"	22' 0"	600' 0"			
	No. 104 do in 5th do do	do	do	do	9 of 16' do	18' 0"	18' 0"	170' 0"			
	No. 105 do in 5th do do	do	do	do	8 of 16' do	18' 0"	15' 0"	60' 0"			
	No. 109 do in 7th do do	do	do	do	4 of 13' do	18' 0"	17' 0"	70' 0"			
	No. 119 do in 12th do do	do	do	do	3 of 15' do	18' 0"	15' 0"	70' 0"			
	No. 120 do in 13th mile	do	do	do	6 of 15' do	18' 0"	18' 0"	120' 0"			
	No. 122 do in 15th do	do	do	do	3 of 10' do	18' 0"	17' 0"	60'			
	No. 123 do in 15th do	do	do	do	4 of 18' do	18' 0"	18' 0"	115' 0"			
	No. 124 do in 15th do	do	do	do	7 of 18' do	18' 0"	16' 0"	140' 0"			
	No. 126 do in 16th do	do	do	do	6 of 20' do	18' 0"	17' 0"	180' 0"			

BRAMINI-BYTUMI DIVISION—(concll.)

No. 127 do in 17th do	do	do	do	do	4 of 10' do	17' 0"	17' 0"	97' 0"			
No. 128 do in 18th do	do	do	do	do	3 of 15' do	18' 0"	17' 0"	65' 0"			
No. 129 do in 18th do	do	do	do	do	3 of 15' do	18' 0"	17' 0"	65' 0"			
No. 131 do in 19th do	do	do	do	do	2 of 20' do	21' 0"	18' 0"	60' 0"			
No. 134 do in 21st do	do	do	do	do	2 of 12' do	18' 0"	12' 0"	65' 0"			
No. 136 do in 22nd do	do	do	do	do	3 of 15' do	18' 0"	15' 0"	63' 0"			
No. 137 do in 23rd do	do	do	do	do	1 of 120' do	12' 0"	15' 0"	150' 0"		...	Suspension bridge.
No. 139 do in 26th do	do	do	do	do	2 of 10' do	33' 0"	7' 0"	63' 0"			
No. 140 do in 27th do	do	do	do	do	2 of 10' do	19' 0"	7' 0"	66' 0"			
No. 141 do in 27th do	do	do	do	do	2 of 10' do	19' 0"	7' 0"	60' 0"			
No. 143 do in 29th do	do	do	do	do	1 of 13' do	20' 0"	8' 0"	70' 0"			
No. 146 do in 31st do	do	do	do	do	4 of 13' do	20' 0"	15' 0"	97' 0"			
No. 147 do in 32nd do	do	do	do	do	2 of 13' do	20' 0"	8' 0"	70' 0"			

C. E. LIVESAY,
Executive Engineer,
Bramini-Bytumi Division.

Executive Division.	Locality.	Name of building.	Description and Height of Walls.						Cost.	Area.	Rate per superficial foot.			
			Single or double storied.	Foundations.		Plinth.	Walls (to top of wall plates).	Roof.				Floor.		
				Concrete.	Masonry.									
Gya		Opium Office	...	Ft. In.	Average Ft. In.	Average Ft. In.	P k & p ...	8 9 p st	...	tiled	...	Ra. 700	2,530	0 4 5
do		Weighing shed No. 1	...	Ft. In.	...	...	P k & p ...	12 0 do	...	k	...	1,500	5,494	0 4 4
do		" "	...	Ft. In.	...	...	do	12 0 do	...	k	...	1,200	2,684	0 4 4
do		" "	...	Ft. In.	...	...	do	12 0 do	...	k	...	800	2,276	0 7 5
do		" "	...	Ft. In.	...	...	do	12 0 do	...	k	...	2,000	5,616	0 8 10
do		" "	...	Ft. In.	...	...	do	12 0 do	...	k	...	600	2,025	0 4 8
do		Washing Room	...	Ft. In.	...	...	do	12 0 do	...	k	...	1,000	4,185	0 3 9
do		Testing Shed	...	Ft. In.	...	...	do	12 0 do	...	k	...	800	805	0 15 10
do		Store Room	...	Ft. In.	...	...	do	12 0 do	...	k	...	1,000	2,520	0 6 4
do		Compound Wall	...	Ft. In.	...	...	P k & p ...	14 8 do	...	k	...	2,883	6,557	0 7 0
do		Post Office	...	Ft. In.	...	...	P	14 8 do	...	k	...	1,314	...	...
do		Addition to Post Office	...	Ft. In.	...	...	P	14 0 p st	...	k	...	2,291	3,162	0 11 8
do		Clerks' and Peons' House...	...	Ft. In.	...	...	P	8 0 do	...	ter	...	336	278	1 4 1
do		Runner's House	...	Ft. In.	...	...	k p	8 0 do	...	k	...	221	115	...
do		Cook House	...	Ft. In.	...	...	do	9 6 do	...	k	...	434	83	0 9 9
do		Privy	...	Ft. In.	...	...	do	7 6 do	...	k	...	...	...	...
do		Judge's Kucherry	...	Ft. In.	...	...	do	16 6 do	...	ter	...	8,000	6,254	1 1 10
do		" Record Room	...	Ft. In.	...	...	P	15 6 Ter, p st	...	do	...	6,000	7,440	0 12 10
do		Sepoy's House	...	Ft. In.	...	...	P	11 0 p st	...	k	...	150	1,023	0 2 3
do		Magistrate's Kucherry	...	Ft. In.	...	...	P	15 0 do	...	ter	...	7,301	7,301	0 15 4
do		Hajut	...	Ft. In.	...	...	P	23 0 Ter	...	do	...	8,459	1,914	1 12 11
do		Collector's Kucherry	...	Ft. In.	...	...	P	20 0 Tiled & ter	...	do	...	12,000	8,900	1 5 6
do		Treasury	...	Ft. In.	...	...	P	21 0 Ter	...	do	...	8,000	2,655	3 6 2
do		Record Room	...	Ft. In.	...	...	P	18 4 Vaulted and ter.	...	g	...	14,347	4,264	3 6 1
do		Amiah's Room	...	Ft. In.	...	...	P	8 3 p st	...	ter	...	1,600	672	2 6 1
do		Guard Room	...	Ft. In.	...	...	P	10 0 Tiled & ter	...	do	...	1,500	8,132	0 7 7
do		Sowar's Room	...	Ft. In.	...	...	P	11 0 p st	...	do	...	1,000	3,245	0 4 11
do		Sudder Amet's Court	...	Ft. In.	...	...	P	15 8 do	...	do	...	8,000	5,750	0 8 4
do		Registrar's Office	...	Ft. In.	...	...	P	16 6 Tiled & ter	...	brick-on-edge	...	5,000	4,800	1 1 0
do		Circuit House	...	Ft. In.	...	...	P	18 0 p st	...	ter	...	8,000	6,077	1 5 0
do		Cook House	...	Ft. In.	...	...	P	11 8 do	...	do	...	600	1,980	0 4 10

Executive Division.	Locality.	Name of building.	DESCRIPTION AND HEIGHT OF WALLS.							Cost.	Area.	Rate per superficial foot.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
			Single or double storied.	Foundations.		Plinth.	Walls (to top of wall plate.)	Roof.	Floor.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
				Concrete.	Masonry.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
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75	252	0 4 11
80	441	0 1 9 1
80	336	0 3 9 1
250	900	0 4 5 1
60	666	0 1 2 1
520	520	0 0 7 1
15,620	15,620	0 11 8 1
13,791	8,200	0 11 7
6,000	...	...
4,145	...	...
2,500	...	...
300	...	...
400	...	...
1,000	...	...
1,849	...	...
2,240	...	...
256	...	...
1,849	...	...
630	...	...
1,444	...	...
266	...	...
100	...	...

JAMES KEDDIE, C. E.,
Executive Engineer, Patna Division.

Statement of construction, cost and length of bridges exceeding 500 lineal feet in the Patna Division.

Executive Division.	Name of bridge, or of river or nullah, and situation.	Date of completion.	Description of bridge.	Kind and depth of foundation.	Number and size of spans.	Width of roadway between parapets or railings.	Height of roadway above foundations or river-bed.	Total length of bridge.	Total cost.	Cost per 100 feet of length.	Remarks.
	Mohania Bridge, mile 269, G. T. road.		Stone masonry	...	7 of 63	22	39	600			
	Chunary Nulla, mile 270, G. T. road.		Ditto	...	3 of 18½	23	21	100			
	Hurria Nulla, mile 272, G. T. road.		Ditto	...	2 of 20	24	18	93			
	Bahary River, mile 278, G. T. road.		Ditto	...	4 of 35	23	28	262			
	Ditto ditto Nulla		Ditto	...	3 of 14	26½	17	51½			
	Goolamkri Bridge, mile 279, G. T. road.		Stone arch each end	...	Girders 150	20½	28	298			
	Leelajan waterway, mile 284, G. T. road.		Stone masonry	...	Arches 3 of 18½	30	28	110			
	Leelajan River, mile 284, G. T. road.		Ditto	...	8 existing spans of 40 ft., 10 given way 3 of 49	24	29	7,000			
	Leelajan waterway, mile 284, G. T. road.		Ditto	...	3 of 49	80	27	228			
	Junna River, mile 287, G. T. road.		Ditto	...	2 of 21	80	16	68			
	Bhoorba River, mile 291, G. T. road.		Stone masonry and brick arches and superstructure.	...	16 of 73	21	85½	1,468			
	Morhar River, mile 292, G. T. road.		Ditto ditto	...	14 of 73	20	88	1,200			
	Gobilly Nulla, mile 80, P. B. road.		Stone masonry	...	3 of 15	27	10	83½			
	Kundoo Bund, mile 70, P. B. road.		Ditto	...	3 of 10	28	9½	54			
	Ditto ditto		Ditto	...	3 of 3	27	9	68			
	318 mile, Drainage Bridge No. 191.		Rubble masonry and abutment arches	...	3 of 25	22½	21	143			
	314 mile, Kaseai Bridge No. 192.		Ditto	...	4 of 80	21	28	219			
	314 mile, Drainage Bridge No. 193.		Ditto	...	1 of 20	23	23	75			
	809 mile, Goutrain Nuddes No. 178.		Rubble masonry	...	2 of 20	27½	6½	95			
	317 mile, Jecaree Nuddes Bridge No. 203.		Ditto	...	4 of 15	21	15	127			
	321 mile, Adru Nuddes Bridge No. 211.		Ditto	...	5 of 35	21	24½	260			
	323 mile, Joseah Nuddes Bridge No. 219.		Ditto	...	2 of 15	27	18	103			
	331 mile, Poon Poon Bridge No. 240.		Pucca brick-work towers, Draigom suspension bridge, plank flooring.	...	10 of 192	14	80	212			
	334 mile, Canal Escape Bridge No. 245.		Pucca brick-work	...	3 of 13	20	13	94			
	334 mile, Soane Canal Bridge No. 246.		Brick-work, iron latticed girders	...	3 of 54	15	24	168			
	334 mile, Drainage Bridge No. 247.		Brick-work	...	4 of 15	22	13	123			

No. 27, P. W. D. Press—28-1-81—765.

JAMES KEDDIE, C. E.,
Executive Engineer, Patna Division.

SHAHABAD DISTRICT, GRAND TRUNK ROAD.

ABBREVIATIONS—p, pucca; k p, kutcha pucca; p k p, pucca and kutcha pucca; d w, daub and wattle; cor, corrugated; d, dressed; ter, terraced; b l, brick in lime; b m, brick in mud; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s t, pent single tiled; p d t, pent double tiled; t, thatched; b f, brick flat; f, flagged; in, inner; o, outer; u, upper; gr, ground; p r, pucca rubble; k r, kutcha rubble.

Executive Division.	P. W. D. No.	Locality.	Name of buildings.	Single or double storied.	DESCRIPTION AND HEIGHT OF WALLS.						Roof.	Floor.	Cost.	Area.	Rate per superficial foot.		
					Foundation.		Plinth.	Walls to the top of wall plate.	Ft. In.	Ft. In.						Ft. In.	
					Concrete.	Masonry.											
																	Ft. In.
	1	Arrah	Post Office	single	...	...	2 0	...	...	2 0	...	13 10 terrace	...	...	...	Rs.	Rs. A. P.
	2	do	Opium Agent's Office	...	...	...	2 6	...	...	1 0	...	7 0 p s t & t	...	...	brick-on-edge ter, tiled and	unknown	1,976
	3	do	Jail enclosure wall	...	...	...	2 0	...	...	0 6	...	11 0 ter	...	...	brick-on-edge.	...	361,301
	4	do	Solitary cell	...	...	...	2 6	...	...	1 7	...	10 6 ter	...	...	ter	...	2,070
	5	do	Jail Hospital	...	...	...	...	...	...	2 7	...	14 6 do	...	...	do	...	4,441
	6	do	do Office	...	...	...	2 3	...	...	1 3	...	6 0 p s t & matted	...	...	do	...	1,111
	7	do	Civil Jail	...	...	...	2 3	...	...	2 3	...	7 7 p s t	...	...	earthen	...	1,096
	8	do	Jailor's Bungalow	...	...	...	2 6	...	...	2 3	...	9 3 p s t & t	...	...	ter	...	2,221
	9	do	Judge's Court	...	...	...	2 6	...	...	2 6	...	18 4 ter	...	...	s & tar	...	6,271
	10	do	Sudder Allah's Court	...	...	...	2 4	...	...	2 0	...	13 6 p s t	...	...	tiled	...	4,182
	11	do	Moonsiff's do	...	...	...	2 1	...	...	2 0	...	14 6 do	...	...	do & s	...	2,863
	12	do	Collectorate	...	...	...	...	...	...	2 0	...	20 0 ter	...	...	s	...	32,961
	13	do	New hazut attached to Magistrate's Court	...	...	...	1 6	...	...	1 9	...	13 3 do	...	...	ter	...	4,351
	14	do	Circuit House	...	...	...	2 0	...	...	2 6	...	28 0 ter & p s t	...	...	s	unknown	6,338
	15	do	School do	...	...	...	2 3	...	...	2 10	...	16 6 ter	...	...	ter, s and	...	11,743
	16	do	Head Master's Bungalow	...	...	...	1 0	...	...	2 0	...	16 0 p s t & t	...	...	brick on edge.	...	2,943
	17	do	Church	...	...	...	2 10	...	...	2 6	...	25 0 ter	...	...	ter & tiled	...	6,198
	18	do	Cemetery at Monlabugh...	...	...	...	1 0	...	...	1 3	...	9 6	...	...	...	...	...
	19	do	Distillery	...	...	...	2 6	...	...	2 0	...	9 3 p s t	...	...	brick on edge	...	908
	20	do	Tread-mill-shed	...	...	...	2 8	...	...	1 0	...	7 8 ter	...	...	& mud.	...	26,276
	21	do	Registry Building	...	...	...	2 6	...	...	3 0	...	17 6 do	...	...	earthen	...	2,057
	22	do	P W D godown	...	...	...	1 6	...	...	0 9	...	7 9 p s t	...	...	s	...	1,870
	23	do	Telegraph Office	...	...	...	2 0	...	...	2 4	...	13 6 ter	...	...	earthen & brick-on-edge.	...	1,633
	24	do	Main ward or hazut	...	...	...	2 0	...	...	1 3	...	17 0 arched	...	...	ter	...	2,322
	25	do	Post Office	...	...	...	2 3	...	...	2 0	...	14 0 ter	...	...	do	...	18,478
	26	do	Stud Officer's quarter	...	...	...	1 0	...	...	3 3	...	7 3 } ter, p s t & t	...	...	tiled	...	2,733
	27	do	New gram godown	...	...	...	2 3	...	...	3 3	...	15 7 terraced	...	...	s & tar	...	4,368
	28	do		...	...	...	2 3	...	...	3 3	...	15 7 terraced	...	...	s	...	10,029
	29	do		...	...	...	2 3	...	...	3 3	...	15 7 terraced	...	...	s	...	4,768

PATNA—continued.

Executive P. W. D. Division.	Locality.	Name of buildings.	Single or double storied.	DESCRIPTION AND HEIGHT OF WALLS.						Roof.	Floor.	Cost.	Area.	Rate per superficial feet.
				Foundation.		Plinth.	Walls to the top of wall plate.							
				Concrete.	Masonry.		Ft. In.	Ft. In.	Ft. In.					
4	Buxar	Overseer's Bungalow No. 1	single	...	...	...	1 3	0 3	...	7 8	ter & tiled	Rs.	s. ft.	Rs. A. P.
5	do	do No. 2	do	...	...	...	2 3	1 0	...	8 4	do	847	2,981	0 4 6
6	do	do No. 3	do	terrace all round, foundation examined.	...	...	2 0	1 6	...	12 2	ter	1,542	2,651	0 9 3
7	do	Stable No. 1	do	...	...	...	2 0	0 6	...	7 9	pdt	2,607	2,271	1 2 3
8	do	do No. 2	do	...	...	...	2 0	0 6	...	8 2	do	20,227	37,001	0 8 9
9	do	do No. 3	do	...	...	...	2 0	0 6	...	7 6	pat	14,492	21,526	0 10 9
10	do	do No. 4	do	...	...	...	1 3	0 1	...	8 0	do	8,147	7,408	0 6 9
11	do	do No. 5	do	...	...	...	0 1	0 6	...	7 2	do	3,949	17,978	0 8 6
12	do	do No. 6	do	...	...	...	1 6	0 6	...	7 11	pdt	6,009	17,067	0 5 6
13	do	do No. 7	do	...	...	...	1 0	1 0	...	7 6	pat	23,811	34,638	0 10 9
14	do	Officer's quarter in Fort.	double	...	...	...	2 0	0 6	...	12 10	ter & tiled & t	8,920	10,400	0 6 0
15	do	Deputy Collector and Magistrate's Court.	single	...	...	...	2 6	1 0	...	13 5	ter & tiled & t	...	4,214	...
16	do	Moonsiff's Court.	...	...	...	...	1 0	0 9	...	8 4	pat & matted	...	4,495	...
17	do	Church.	...	...	...	...	1 0	0 9	...	7 6	pat	...	2,709	...
18	do	Lock-up	...	...	...	...	2 0	0 9	...	10 3	ter	...	2,901	...
19	do	Cemetery	...	...	...	...	1 9	0 6	...	16 1	pat & matted	...	3,397	...
1	Dehree	P. W. D. godown	...	...	...	...	1 6	0 6	...	8 9	pat	...	100,800	...
1	do	Dak Bungalow	single	...	...	...	1 6	0 6	...	8 9	pat & t	...	1,659	...
1	do	Road chowkey	...	...	...	...	1 6	0 6	...	8 9	pat & t	...	1,785	...
2	do	Late Commissariat Bungalow.	...	...	...	...	2 0	0 6	...	9 3	do	...	2,983	...
1	Sasaram	Dak Bungalow	...	...	...	...	2 0	0 6	...	9 3	do	...	1,774	...
1	do	Sub-Divisional dwelling house.	...	...	...	...	2 0	0 6	...	11 0	do	...	2,400	...
2	do	Lock-up	...	...	...	...	1 6	0 6	...	12 0	do	...	7,069	...
3	do	Inspection Bungalow at present Kucherry.	...	...	...	...	1 6	0 6	...	13 0	pat	...	5,727	...
1	Jehanabad	Post Office	...	...	...	...	2 6	1 0	...	9 7	pat & t	...	5,765	...
do	do	Road chowkey	...	...	...	...	2 6	0 6	...	11 0	do	...	2,062	...
1	Mortyner Bhaboon	Road chowkey	...	...	...	...	2 9	0 6	...	8 6	do ter	...	4,608	...
1	do	Sub-Divisional dwelling house.	...	...	...	...	2 9	0 6	...	0 8	pat & t	...	1,258	...
3	do	Lock-up	...	...	...	...	1 9	0 6	...	10 0	do	...	2,250	...
2	do	Court house	...	...	...	...	2 6	0 6	...	11 9	ter, pat	...	2,364	...
1	Durgowti	Road chowkey	...	...	...	...	2 6	0 6	...	15 6	do	...	2,743	...

J. O'FLAHERTY, C. E.,
Executive Engineer, Patna Division.

SHAMSUNDER DASS,
Head Assistant for Supdg. Engineer, Western Circle.

Statement of construction, cost and length of bridges exceeding 50 lineal feet on the Grand Trunk Road, Shahabad District.

Name of bridge or of river or nullah and situation.	Date of completion.	Description of bridge.	Kind and depth of foundation.	Number and size of span.	Width of roadway between parapets or railings.	Height of roadway above foundations or river bed.	Total length of bridge.	Cost per 100 feet of length.	REMARKS.
Khoornabad bridge over river Koodra.	Unknown.	Bridge of pucca rubble stone masonry. All spans arched over. Arches made of dressed rubble. Foundation of piers and abutments resting on wells 20' deep, wing walls on 10' deep wells and somewhere 8' copings of dressed stone.	Of piers and abutments, well 20" deep of wing walls, wells 10' 8" deep of pucca rubble masonry.	4 spans of 45 feet each	20 6	57 0	248 0	Unknown.	Unknown.
Bridge No. 78 in mile 372 of Grand Trunk Road. Drain bridge.	Ditto	Of pucca brick-work and stone beams in place of arches and floored.	Pucca brick-work 4' deep.	4 spans of 12½ feet each	30 0	8 8	65 0	...	...
Bridge No. 79 in mile 372, Grand Trunk Road. Drain bridge.	Ditto	Of pucca masonry and arched and floored.	Pucca brick-work 3' 6" deep.	4 spans of 12½ feet long	29 7	8 8	66 1	...	...
Bridge No. 89 in 376 mile. Drain bridge.	Ditto	Of pucca brick-work, stone beams in place of arches and floored.	Pucca brick-work 3' 9" deep.	4 spans of 12½ feet each	29 6	8 8	65 0	...	...
Bridge No. 91 in 376 mile. Drain bridge.	Ditto	Of pucca brick masonry, arched and floored.	Pucca brick-work 3' 9" deep.	4 spans of 12½ feet each	29 6	8 8	65 8	...	...
Bridge No. 94 in 377 mile. Drain bridge.	Ditto	Pucca brick-work, stone beams in lieu of arches.	Pucca brick-work 3' 6" deep.	4 spans of 12½ feet each	29 6	8 8	65 2	...	...
Doorgawti bridge over river Doorgawti.	Ditto	Suspension bridge (iron) links, tie rods, chain and some of the beams are of wrought iron, rest of the beams of al wood. The roadway is of 2" al planks — 1st layer fixed longitudinally, and the 2nd one cross-wise at an angle of 45°, foot path of one layer of planks set longitudinally on each mile. Piers and abutments of ashlar masonry.	Ashlar masonry 8 feet and walls 20 feet deep.	8 spans, centre one 186' 9" long, each of the side ones 63 feet.	14 0	28 0	831 9	...	...
Doorgawti viaduct No. 133	Ditto	Of rubble masonry, stone beams in lieu of arches, copings of dressed stone.	Rubble masonry and pucca brick-work 6' 6" deep.	67 spans of 15 feet each	28 0	13 6	1,337 0	...	...
Ditto ditto No. 133	Ditto	Ditto ditto	Pucca brick-work 4' 6" deep.	14 spans of 15'	28 0	10 0	318 0	...	...
Ditto No. 143 in 393 mile	Ditto	Pucca brick-work, arched and floored	Pucca brick-work 4' 6" deep.	10 spans of 16'	23 0	12 0	229 0	...	...
Ditto No. 144 in 393 "	Ditto	Ditto ditto	Pucca brick-work 4' 9" deep.	6 spans of 15' 11" ...	23 0	13 3	147 0	...	...
Ditto No. 145 in 393 "	Ditto	Ditto ditto	Pucca brick-work 4' 6" deep.	16 feet long each span, of 6 spans	23 0	12 6	147 0	...	...
Ditto No. 146 in 394 "	Ditto	Ditto ditto	Ditto ditto	Ditto ditto	23 0	12 6	147 0	...	...

SHAMSUNDER DASS,
Head Assistant for Supdg. Engineer, Western Circle.

J. O'FLAHERTY, C. E.,
Executive Engineer, Patna Division.

PATNA DIVISION.

ABBREVIATIONS.—P, pucca; k p, kutcha pucca; p k p, pucca and kutcha pucca; d w, daub and wattle; cor, corrugated; d, dressed; ter, terraced; b l, brick in lime; b m, brick in mud; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s t, pent single tiled; p d t, pent double tiled; t, thatched; b f, brick flat; f, flagged; in, inner; o, outer; u, upper; gr, ground.

Executive Division.	Locality.	Name of building.	Single or double storied.	DESCRIPTION AND HEIGHT OF WALLS.					Cost.	Area.	Rate per superficial foot.									
				Foundation.		Plinth.	Walls (to top of wall-plate.)	Roof.				Floor.								
				Concrete.	Masonry.															
PATNA.	MIZUPURH.	Collector's Kucherry	Single	...	nil ...	P	...	Average. Ft. in. 2 7	...	Average. Ft. in. 4 0	P	...	18 2	terraced	...	terraced and tiled	...	Ra. ...	20,982	
		Judge's Court	Do.	...	nil ...	P	...	2 6	do	...	4 0	do	...	16 2	do	...	do	...	19,432	
		Magistrate's Court	Do.	...	nil ...	P	...	1 9	do	...	4 0	do	...	17 0	do	...	do	...	11,151	
		Mooniff's do.	Do.	...	nil ...	P	...	2 0	k p	...	4 0	k p	...	15 0	tiled	...	tiled	...	7,600	
		Sub-Registry Office	Do.	...	nil ...	P	...	3 0	P	...	3 0	P	...	16 0	terraced	...	terraced	...	3,420	
		Training School	Do.	...	nil ...	P	...	2 0	P	...	2 0	P	...	17 6	do	...	brick-on-edge	...	2,453	
		Government School	Do.	...	nil ...	P	...	2 0	P	...	2 6	P	...	15 0	do and tiled	...	brick-on-edge and boarded.	...	6,445	
		Do Dispensary	Do.	...	nil ...	P	...	2 0	P	...	2 0	P	...	16 6	do	...	tiled	...	6,416	
		Police Thanna Inspectors' and Sepoys' ward.	Do.	...	nil ...	P	...	2 0	P	...	2 0	P	...	11 6	terraced	...	brick-on-edge and terraced.	...	5,365	
		Circuit house	Do.	...	nil ...	k p	...	2 6	k p	...	2 6	k p	...	17 3	do and tiled	...	terraced	...	...	
		Hospital in Muzafferpur Jail.	Double	...	nil ...	do	...	2 3	p	...	3 0	P	...	12 0	terraced	...	tiled	...	...	3,732
		Overseer's bungalow	...	...	nil ...	do	...	1 6	k p	...	1 6	k p	...	12 0	tiled	...	terraced	...	...	...
		Sub-Divisional Kucherry	Single	...	nil ...	P	...	1 6	P	...	2 0	P	...	16 0	terraced	...	do	...	...	2,994
		Do Residence Bungalow	...	...	nil ...	k p	...	1 6	k p	...	2 0	k p	...	16 0	tiled	...	do	...	...	2,768
SERTUMARH.	SERTUMARH.	Collector's Kucherry	Single	...	nil ...	P	...	Average. Ft. in. 2 7	...	Average. Ft. in. 4 0	P	...	18 2	terraced	...	terraced and tiled	...	Ra. ...	20,982	
		Judge's Court	Do.	...	nil ...	P	...	2 6	do	...	4 0	do	...	16 2	do	...	do	...	19,432	
		Magistrate's Court	Do.	...	nil ...	P	...	1 9	do	...	4 0	do	...	17 0	do	...	do	...	11,151	
		Mooniff's do.	Do.	...	nil ...	P	...	2 0	k p	...	4 0	k p	...	15 0	tiled	...	tiled	...	7,600	
		Sub-Registry Office	Do.	...	nil ...	P	...	3 0	P	...	3 0	P	...	16 0	terraced	...	terraced	...	3,420	
		Training School	Do.	...	nil ...	P	...	2 0	P	...	2 0	P	...	17 6	do	...	brick-on-edge	...	2,453	
		Government School	Do.	...	nil ...	P	...	2 0	P	...	2 6	P	...	15 0	do and tiled	...	brick-on-edge and boarded.	...	6,445	
		Do Dispensary	Do.	...	nil ...	P	...	2 0	P	...	2 0	P	...	16 6	do	...	tiled	...	6,416	
		Police Thanna Inspectors' and Sepoys' ward.	Do.	...	nil ...	P	...	2 0	P	...	2 0	P	...	11 6	terraced	...	brick-on-edge and terraced.	...	5,365	
		Circuit house	Do.	...	nil ...	k p	...	2 6	k p	...	2 6	k p	...	17 3	do and tiled	...	terraced	...	...	
		Hospital in Muzafferpur Jail.	Double	...	nil ...	do	...	2 3	p	...	3 0	P	...	12 0	terraced	...	tiled	...	...	3,732
		Overseer's bungalow	...	...	nil ...	do	...	1 6	k p	...	1 6	k p	...	12 0	tiled	...	terraced	...	...	...
		Sub-Divisional Kucherry	Single	...	nil ...	P	...	1 6	P	...	2 0	P	...	16 0	terraced	...	do	...	...	2,994
		Do Residence Bungalow	...	...	nil ...	k p	...	1 6	k p	...	2 0	k p	...	16 0	tiled	...	do	...	...	2,768

C. T. STEWART, Colonel, R. E.,

Superintending Engineer, Western Circle.

J. J. O'FLAHERTY, C. E.,

Executive Engineer, Patna Division.

PATNA DIVISION.

ABBREVIATIONS.—p, pucca; k p, kutcha pucca; p k p, pucca and kutcha pucca; d w, daub and wattle; cor, corrugated; d, dressed; ter, terraced; b l, brick in lime; b m, brick in mud; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s t, pent single tiled; p d t, pent double tiled; t, thatched; b f, brick flat; f, flagged; in, inner; o, outer; u, upper; gr ground.

Executive Division.	Locality.	Name of building.	DESCRIPTION AND HEIGHT OF WALLS.										Cost.	Area.	Rate per superficial foot.	
			Single or double storied.	Foundation.		Plinth.	Walls (to top of wall plate.)	Roof.	Floor.	Ra.	Ra. A. P.					
				Concrete.	Masonry.							Average. Ft. in.				Ft. in.
PATNA DIVISION. F.C.D. DIVISION.	Goolisrbaugh	Minia godown	double	unknown	P	unknown	Pucca	0 8	{gr p up	17 0 } 20 6 } 23 3 } 23 0 }						

NOTE.—Buildings 13, 25, 35 of Register are dismantled.
 * Ra. 5,963 expended between 31st May 1878, and date of completion, October 1878.
 † These sheds (10 and 11) (as shown in Register) have been dismantled and rebuilt.

Executive Division.	Locality.	Name of building.	Single or double storied.	Foundation.			Plinth.	Walls (to top of wall plate).	Roof.	Floor.	Cost.	Area.	Rate per superficial foot.
				Concrete.		Masonry.							
				Ft. In.	Average. Ft. In.	Average. Ft. In.							
PATNA DIVISION.	Goolbarbaugh	Aqueduct drawing bridge.	...	unknown	...	...	...	...	...	...	Ra.	148	Ra. A. P.
	do	New water-supply	...	do	...	...	...	...	...	...	74	1,250	{ 0.8-0.00 Ra. 185 per 100 r. ft. }
	do	Main reservoir	...	do	...	...	...	...	...	...	11,543	{ 2 9 6 }	
	do	89 small tanks	single	do	...	...	...	...	...	...	3,393	1 0 11	
	do	New shed No. 5	do	do	...	...	...	...	...	...	3,416	1 1 2	
	do	do No. 6	do	do	...	...	...	...	...	...	3,203	1 6 10	
	do	do No. 7	do	do	...	...	...	...	...	...	4,450	2 9 3	
	do	Church	do	do	...	...	...	...	...	...	6,912	0 14 4	
	Patna city	Charitable dispensary	do	do	...	...	...	...	...	...	7,000	7,791	17-6.8 per r. ft.
	do	Burial ground enclosure	...	do	...	...	...	...	...	...	19,615	1,125'9"	
SUB-DIVISION.	Therwange	Bungalow	single	do	...	...	...	...	...	...	5,000	2,809	1 12 5
	Bankipore	Opium Agent's dwelling	do	do	...	...	...	...	...	...	50,000	12,575	3 15 8
	do	house.	do	do	...	...	...	...	...	...	8,314	5,516	1 8 1
	do	Sub-Deputy Opium Agent's Office.	do	do	...	...	...	...	...	...	5,635	5,779	0 15 7
	do	Weighing shed	do	do	...	...	...	...	...	...	1,600	5,500	0 4 4
	do	Store room on West jar godown.	do	do	...	...	...	...	...	...	...	...	...
	do	New Post Office	do	do	...	...	...	...	...	...	...	...	...
	do	and	do	do	...	...	...	...	...	...	...	...	...
	do	Residence	do	do	...	...	...	...	...	...	...	...	...
	do	Public Works storing yard Office.	do	do	...	...	...	...	...	...	...	...	...
SUB-DIVISION.	do	Old college building	double	do	...	...	...	...	...	...	...	...	...
	do	West wing do	do	do	...	...	...	...	...	...	...	...	...
	do	Judge's Kucherry	single	do	...	...	...	...	...	...	...	...	...
	do	Collectorate	do	do	...	...	...	...	...	...	...	...	...
	do	Malkhana and District Superintendent's Office.	do	do	...	...	...	...	...	...	...	...	...
	do	New Hajut	do	do	...	...	...	...	...	...	...	...	...
	do	Commissioner's Kucherry	do	do	...	...	...	...	...	...	...	...	...
	do	Bungalow	do	do	...	...	...	...	...	...	...	...	...
	do	Church	do	do	...	...	...	...	...	...	...	...	...
	do	Enclosure wall, Cemetery N.	do	do	...	...	...	...	...	...	...	...	...
SUB-DIVISION.	do	do S	do	do	...	...	...	...	...	...	...	...	...
	do	Jailor's bungalow	single	do	...	...	...	...	...	...	...	...	...
	do	Enclosure wall	do	do	...	...	...	...	...	...	...	...	...
	do	Ward No. 20	do	do	...	...	...	...	...	...	...	...	...
	do	do No. 21	do	do	...	...	...	...	...	...	...	...	...
	do	do No. 22	do	do	...	...	...	...	...	...	...	...	...
	do	do No. 23	do	do	...	...	...	...	...	...	...	...	...
	do	do	do	do	...	...	...	...	...	...	...	...	...
	do	do	do	do	...	...	...	...	...	...	...	...	...
	do	do	do	do	...	...	...	...	...	...	...	...	...

[illegible]

3 This probably does not include upper storey of European ward 31 ; No. 34 (in Register) called European ward would be more correctly styled *Civil ward* ; No. 31 of Register is really No. 33 ; No. 33 of Register really (19), No. 30 of Register is dismantled.

† This includes a k p privy-house, area = 110 a. ft.
 • Deduct 191 from cost for k out-houses.

This includes out-houses { $k = 1, 6, 4$ }
 included in the *Infantry Barrack*, (No. 51) on
 { $n = 4$ } 6 ft and 4

|| This includes most out-houses $\left\{ \begin{array}{l} k = 3000 \text{ s ft} \text{ and } 2 \text{ wells (3 animals)}, \\ x = 9040 \text{ s ft} \end{array} \right.$

oo This includes also cost of out-houses $\left\{ \begin{array}{l} k p = 4,295 \text{ s ft} \\ x = 500 \text{ s ft} \end{array} \right.$

ARNOLD HORNE,
Assistant Engineer.

Superintending Engineer Western Circle.

J. J. O'FLAHERTY, C. E.,
Executive Engineer, Patna Division.

Statement of construction, cost and length of bridges exceeding 50 lineal feet in the Bengal Presidency.

Executive Division.	Name of bridge, or of river or nullah, and situation.	Date of completion.	Description of bridge.	Kind and depth of foundation.	No. and size of spans.	Width of roadway between parapets of bridge.	Height of roadway above foundation or river-bed.	Total length of bridge.	Total cost.	Cost per 100 feet of length.	Remarks.
PATNA—PATNA SUB-DIVISION.	Kurji Bridge in 3rd mile, Bankipore and Dinapore Road.	1861	Pucca masonry	Pucca masonry—Depth of curtain wall = 5 feet.	4 spans of 14' 6" each.	Ft. In. 24 0	Ft. In. 18 0	Ft. In. 65 6	Ra. unknown	Ra. unknown	One opening of 8' 9" was blocked up by silt now excavated by Irrigation Department.
	Dinapore Bullah Bridge in 7th mile.	unknown	Ditto	Pucca masonry—Flooring 3 feet of concrete over 1 of 8' 11" 1 of 9' 11" 1 of 8' 11" Foundations go much below this.	2 of 8' 8" 1 of 8' 11" 1 of 9' 11" 1 of 12' 3" ...	23 9	25 0	98 6½	Ditto	Ditto	
	Dinapore to Khagole Road.										
	Bridge No. 1, 1st mile	Ditto	Ditto	Pucca masonry—Depth = 2 feet to springing of invert.	5 spans of 10'	29 9	12 6	61 4	Ditto	Ditto	
	Bridge " 3, 2nd "	Ditto	Ditto	Pucca masonry—Depth over 4 feet.	9 spans of 10' ...	29 9	11 6	113 6	Ditto	Ditto	
	Bridge " 6, 2nd "	Ditt	Ditto	Pucca masonry—Depth = 4 feet 6 inches to springing of invert.	5 spans of 10' ...	29 9	13 3	61 2	Ditto	Ditto	

ARNOLD HORNE

Assistant Engineer.

No. 27 P. W. D. Press—28.1.61—765.

C. T. STEWART, COLONEL, R. E.,

Superintending Engineer Western Circle.

J. J. O'FLAHERTY, C. E.

Executive Engineer, Patna Division.

Statement of construction, cost and length of bridges exceeding 50 lineal feet in the Hazaribagh Division.

Executive Division.	Name of bridge, or of river or nullah, and situation.	Date of completion.	Description of bridge.	Kind and depth of foundation.	No. and size of spans.	Width of roadway between parapets or railings.	Height of roadway above foundations or river-bed.	Total length of bridge.	Total cost.	Cost per 100 feet of length.	Remarks.
HAZARIBAGH—BOGDARA ROAD.	Sewany bridge on 18th mile	...	...	Rubble stone, 6½' deep	3 spans of 50' ...	Ft. In. 16 4	Ft. In. 82 6	Ft. In. 195 0	Ra. 86,558	Ra. 18,700	Good order.
	Kabri do on 17th do	...	...	Ditto, 8' do	2 do of 85' ...	16 4	26 0	101 0	14,853	14,210	
	West Holong on 15th do	...	...	Concrete and rubble stone, 17' deep.	2 do of 45' ...	16 4	24 0	128 0	27,394	21,400	
	East do on 14th do	...	...	Rubble stone, 6' deep	2 do of 85' ...	16 4	23 0	100 0	19,546	19,546	
	Jumunia on 8th do	1874-75	The abutments and piers are of rubble stone masonry, the arch and parapets, &c., are of brick-work.	Ditto, 7½' do	2 of 50'	16 4	27 0	135 0	27,994	20,736	
HAZARIBAGH ROAD.	West Satgarah on 7th do	...	...	Ditto, 6½' do	1 of 85'	16 4	18 0	55 0	7,913	14,387	Good order.
	Bogodhur bridge on 1st do	...	...	Ditto, 15' do	3 of 25'	16 4	17 0	101 0	16,092	15,932	
	East Salpurrah bridge	...	...	Ditto, 8' do	1 of 25'	16 4	15 8	43 0	7,826	18,200	
	Koonar bridge on 1st mile	...	...	Concrete and rubble stone 10', above 12½' piling.	3 of 80'	17 0	21 0	123 0	19,978	16,242	
	Bridge on 8th do	Not known	Rubble stone bridge	Not known	2 of 10'	19 0	12 0	51 0	Nil	...	
HAZARIBAGH ROAD.	Bokharo bridge on 12th do	1874-75	Abutments and piers are of rubble stone masonry, the arch, parapets, &c., are of brick-work.	Concrete and rubble stone, 8' deep.	2 of 50'	10 9	30 0	141 0	15,280	10,896	Good order.
	Dhodia on 14th do	...	...	Rubble stone, 4' deep	2 of 50'	16 9	26 0	141 0	12,419	8,807	
	151 mile, bridge over Jhilla	Not known.	...	Grand Trunk Road.	3 of 19' 3" each	21	19 0	139 6			
	156 do, do Pothooy	...	...		3 of 23' 5" do	21 8	29 0	186 0			
	162 do, do Khodia	...	...		5 of 34" do	21 6	31 0	299 0			
HAZARIBAGH.	165 do, Daooly bridge	1846	Rubble stone and dressed stone masonry bridge.		3 of 18' 6" do	21 6	26 0	123 0			In good condition.
	168 do, bridge over Fokeerde	...	...		2 of 29'	21 0	28 0	222 0			
	171 do, bridge over Jialgarha	...	...		3 of 22' 6" do	21 0	27 0	128 0			
	177 do, Fitteoniarzothi bridge	...	...		3 of 17' 4" do	20 8	23 8	103 0			
	181 do, Rajah Bilay bridge	...	...		2 of 37' 4" do	21 2	28 0	180 0			
HAZARIBAGH.	187 do, Bhooymdhurra do	...	...		2 of 20'	21 2	28 0	99 0			In good condition.
	187 do, Modadiba do	...	...		2 of 18' 6" do	21 0	20 8	86 0			
	188 do, Bongdarah do	...	...		2 of 21'	21 0	20 8	86 0			
	190 do, Kutree do	...	...		1 of 19'	21 0	20 8	82 0			
	192 do, Bhomerdoha do	...	...		4 of 18'	21 0	12 0	131 0			
HAZARIBAGH.	193 do, Chhapra nullah	...	...		3 of 15'	21 3	14 0	105 0			In good condition.
	194 do, Jhooruda bridge	...	...		3 of 20'	21 3	21 0	104 0			
	198 do, Haborbee do	...	...		1 opening of 23' 3" do	21 3	20 10	65 0			
	198 do, do do	...	...		6 of 14' 6" do	21 0	14 0	123 0			
	198 do, Sitta nullah do	...	...		1 of 23'	21 0	25 8	68 0			
HAZARIBAGH.	199 do, Chutter Boroa do	...	...		6 of 29'	21 0	24 0	190 0			In good condition.
	200 do, Rubha do	...	...		1 of 29'	21 0	23 0	69 0			
	203 do, Bhagori Bhanganon do	...	...		3 of 34'	21 0	30 0	174 0			
	203 do, Iary bridge over Coolgo do	1846	Do dressed stone masonry		5 of 34'	21 0	28 above river-bed	258 6			
	207 do, bridge over Coolgo do	...	Rubble stone masonry bridge with parapet.		4 of 26' do	20 9	20 0	143 6			
	207 do, Khoimgurrah nullah	...	...						Not known	...	

Executive Division.	Name of bridge, or of river or nullah, and situation.	Date of completion.	Description of bridge.	Kind and depth of foundation.	No. and size of spans.	Width of roadway between parapets or railings.	Height of roadway above foundations or river-bed.	Total length of bridge.	Total cost.	Cost per 100 feet of length.	REMARKS.

HAZARIBAGH, RAMGURU AND SILLER ROAD.	11 mile, Mantola bridge	...	Barrakar and Paruliah Road.	{ 4 feet, masonry on earthy bed. 4 feet, rocky bed 3 do, do 4 do, rocky earth Not known Do	3 of 20'	...	16	0	12	6	92.	0	In good order		
14 do, Bury do	...	...				16	0	20	0	155	0				
15 do, Jharukhamar do	...	...				16	0	23	0	128	0				
20 do, Oothla do	...	...				16	0	25	0	308	0				
32 do, Danoy do	...	...				16	0	22	8	169	0				
45 do, Parulia stream do	...	...				16	0	23	8	102	0				
23 mile, Bhangaajori bridge	...	...	Paruliah and Ranchi Road.	{ Not known Nil.	{ 3 of 24' 5 of 25'	...	16	0	18	0	97	0	Not known		
	23 do, Cosul do	...				...	16	0	19	0	176	0			
	Nil	...				...									
Doranda Cantonment Road.	Dorandah bridge	...	Pucca rubble masonry piers, abutments and wing walls, roadway, 8' planking over strong beams, wooden railings, 8' 8" high, with masonry piers. do	{ Not known	{ 3 spans of 17' each. 4 spans of 19' each.	...	16	9	16	4	70	8			
	Bridge on the road leading to Sunbulpore for No. 2, Doranda bridge.						16	9	81	0	93	0			

J. W. JOHNSON, C. E.,

Executive Engineer, Hazaribagh Division.

SHAM LALL DASS,

Head Assistant,

For Superintending Engineer, Western Circle.

HAZARIBAGH DIVISION.

ABBREVIATIONS—p, pucca; k, kutcha pucca; p k p, pucca and kutcha pucca; d w, daub and wattle; cor, corrugated; d, dressed; ter, terraced; b l, brick in lime; b m, brick in mud; r, rubble; e r, coursed rubble; d s, dry stone; c, concrete; p s t, pent single tiled; p d t, pent double tiled; t, thatched; b f, brick flat; fl, flagged; in, inner; o, outer u, upper; gr, ground.

Executive Division.	Locality.	Name of building.	Single or double storied.	DESCRIPTION AND HEIGHT OF WALLS.										Cost.	Area.	Rate per superficial foot.					
				Foundation.		Plinth.	Walls (to top of wall-plate).	Roof.	Floor.												
				Concrete.	Masonry.																
										Ft. In.	Average Ft. In.										
HAZARIBAGH DIVISION	Danwa	Grand Trunk Road.	Inspection Bungalow	Single	...	...	2 0	P	...	1 6	k p	...	11 0	thatched and tiled.	terraced	...	Rs.	825	...		
	Chowparua	do	do	do	...	...	1 0	P	...	0 6	do	...	10 6	do	do	...	400	969	0.41		
	Burhi	do	No. 1	do	...	b n	0 0	P	...	2 0	do	...	13 0	do	do	...	1,500	3,064	0.49		
	Do	do	No. 2 late	do	...	...	0 0	P	...	2 0	do	...	14 0	do	do	...	800	1,798	0.44		
	Do	...	Dak Bungalow.	do	...	...	...	P	...	2 3	P	...	20 0	terraced	do	...	8,000	5,650	1.41		
	Do	...	Telegraph Office.	do	...	a con	1 0	...	...	2 3	k p	...	13 0	thatched and tiled.	do	..	500	3,290	0.15		
	Do	...	Monsiff's Kucherry	do	...	...	...	...	...	1 6	P	...	15 6	do	do	...	640	2,843	0.23		
	Do	...	do residence	Single	...	...	...	1 6	P	...	2 6	P	...	16 6	tiled	do	...	987	...		
	Do	...	Lock-up	do	...	...	...	1 0	P	...	1 6	P	...	14 0	thatched and tiled.	do	...	3,000	1,700	1.76	
	Barkuta	...	Inspection Bungalow	do	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
	Bogodhur	...	Dak Bungalow	do	...	...	...	2 3	P	...	1 6	do	...	14 0	do	do	...	3,000	1,767	1.70	
	Do	...	Inspection Bungalow	do	...	...	...	1 9	P	...	2 0	do	...	17 3	do	do	...	6,000	4,280	1.17	
	Dumri	...	Dak Bungalow	do	...	...	...	2 0	k rubble	...	1 6	k rubble	...	8 0	do	p terrace	...	8,000	1,785	1.71	
	Nisinghat	...	Inspection Bungalow	do	...	...	...	1 6	do	...	1 6	do	...	10 0	do	do	...	1,000	810	1.23	
	Topechauchi	...	do	do	...	...	...	2 10	do	...	...	do	...	7 9	do	do	...	3,000	1,785	1.71	
	Kaudra	...	do	do	...	...	...	2 6	do	...	2 0	do	...	16 0	thatched and tiled over and partly terrace.	do	...	2,000	3,095.6	0.66	
	Govindpore	...	Lock-up	do	...	...	...	3 0	k m	...	...	p b in mud	...	12 0	terraced	terraced	...	3,000	8,415	0.35	
	Do	...	Assistant Commissioner's Court.	do	...	...	...	2 6	do	...	...	1 6	p b and stone in mud.	10 0	thatched	do	...	2,000	4,004	0.50	
	Do	...	do residence	do	...	...	...	2 6	do	...	...	0 9	do	13 0	do	do	...	2,500	4,675	0.54	
	Bora	...	Inspection Bungalow	do	...	...	...	2 0	k r rubble masonry.	...	1 2	k r masonry	...	9 0	thatched and tiled over.	p terrace	...	1,500	989.3	1.51	
	Surajpura Burhi	...	do	do	...	...	...	1 0	do	...	...	0 6	r s do	13 0	do	terraced	...	not known	1,319	...	
	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	Giridi	...	Post Office	do	...	...	...	1 6	k p	...	...	1 0	k p	18 6	thatched and tiled.	do	...	1,403	2,177	0.64	
	Do	...	Dak Bungalow	do	...	...	...	2 0	p rubble	...	1 9	p rubble	...	18 6	terraced	stone & terrace	...	11,365	3,012	3.68	
Parish Nauth Hill.	...	do	do	...	...	...	2 0	do	...	1 6	do	...	15 0	corrugated iron	terraced	...	not known	3,256	...		

Executive Division.	Locality.	Name of building.	DESCRIPTION AND HEIGHT OF WALLS.										Cost.	Area.	Rate per superficial foot.			
			Single or double stored.	Foundation.		Plinth.	Walls (to top of wall plate).	Roof.	Floor.									
				Concrete.	Masonry.													
										Average. Ft. In.	Average. Ft. In.							
Puruliah		Deputy Commissioner's new Court House.	single	...	p b w	...	2 0	p b m	...	18 2	terraced	...	64,211	23,376½	Ra. A. P. 2 11 11-39			
		Old Court House.	do	...	do	...	1 6	k p b m	...	18 3	do	...	1,784	3,740	0 7 7-58			
		Extra Assistant Commissioner's Court.	do	...	do	...	1 9	do	...	12 1	do	...	1,265	2,360	0 8 6-91			
		Circuit House	do	...	do	...	1 6	do	...	18 2	do	...	6,000	7,396	0 8 11-76			
		Head Master's Bungalow	do	...	k p m	...	1 0	do	...	12 9	do	...	2,533	3,919½	0 10 1-34			
		Jail Ward A	do	...	mud	...	0 6	mud	...	9 0	do	...	250	2,478½	0 1 7-37			
		Wards Band C	do	...	do	...	0 6	do	...	9 0	do	do & mud	...	5,923	7,014	0 4 10-15		
		Hospital (Ward's quarter)	do	...	do	...	0 6	do	...	10 3	do	...	6,000	7,014				
		Cook-room and Workshop	do	...	do	...	0 6	do	...	8 4	do	...	2,400	2,624				
		Hospital	do	...	do p k do	...	0 6	do & p k b m	...	9 0	do	do of terrace	...	1,074	1,674			
Chitabasa		Civil ward (godown)	do	...	p b m	...	1 6	k b m	...	12 0	do	...	2,471	3,872	0 8 8			
		Condemned cell	do	...	do	...	1 0	p b	...	10 0	do	...	3,377	4,664	0 9 1-44			
		Godown garden	do	...	do	...	1 6	do	...	13 9	do	...	1,100	38,806	0 11 6			
		Post Office	do	...	do	...	1 0	do	...	10 1	do	...	16,000	9,154	old jail			
		Deputy Commissioner's Court House.	do	...	p r s m	...	4 0	p r s m	...	18 0	terraced	...	2,471	14,327	1 5 8-52			
		Guard House	do	...	...	...	...	...	...	...	...	...	22,670	16,707½	0 8 8			
		Circuit House	do	...	k p	...	...	k	...	...	...	...	2,224	3,872		0 9 1-44		
		Charitable Hospital	do	...	mud	...	...	mud	...	...	...	...	3,377	4,664		0 11 6		
		Jail building	do	...	...	...	...	...	...	...	...	...	1,100	38,806		old jail		
		Ranchee		Commissioner's Kucherry	double	...	...	...	3 0	pucca b	...	18 4	terraced	...	16,000	9,154	174	
Record Office	single			...	p & k p	...	1 9	...	k p	...	17 0	terraced & tiled	...	4,116	14,327	0-28		
Treasury	do			...	k p	...	3 0	...	do	...	16 9	do	...	...	3,686	1-33		
Guard room	...			...	...	...	...	kutchia b	...	7 0	tiled	...	...	1,177	6,763			
Government School	...			...	...	...	...	...	p brick	...	18 6	terraced & tiled	...	9,015	2,480		0-23	
Head Master's Bungalow	...			...	...	...	...	...	k brick	...	14 9	tiled	...	525	2,088		1-66	
Post Office	...			...	...	...	...	...	k p & k	...	13 0	terraced	...	...	3,010	1,816		0-72
Registry Office	...			...	...	...	...	...	...	...	16 6	do	...	2,719	3,743	0-36		
Police Office	...			...	...	...	...	...	k brick	...	18 3	tiled	...	...	...			...
New Jail	...			...	...	...	...	4 0	...	...	...	...	...	...	...	...	...	
Military Buildings.		Magazine	single	...	p	...	3 6	p	...	2 6	p	...	2,105	1,386	1-51			
		Quarter Master Sergeant's quarter.	...	p	...	1 9	p	...	2 0	p	...	vaulted terraced & tiled	...	403	2,268-9	0-17		
		Bell of arms	...	p	...	1 9	p	...	2 0	p	...	terraced	...	808	2,080	0-36		
			...	...	...	...	...	...	...	...	...	do & rubble stone.	...	...	...	...		

100-continued.

HAZARIABAGH DIV.

Doranda	Quarter guard	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
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(3)

HAZARIBAGH DIVISION.—PURULIAH SUB-DIVISION.

Locality.	Name of building	Single or double storied.	DESCRIPTION AND HEIGHT OF WALL.										Cost.	Area.	Rate per superficial foot.
			Foundation.		Plinth.	Wall to top of wall plate.	Roof.	Floor.							
			Concrete.	Masonry.											
POLICE STATION GOURANDI.	Main bungalow	Single ...	Nil ...	...	Average. Ft. In. 1 6	Kutchia brick-work faced with pucca brick.	Ft. In. 2 0	Kutchia brick-work...	Ft. In. 13 0	Straw thatched.	terrace ...	Rs. 1,400, as per book Rs. 1,462.	2,041	2,041	
	Guards' room	do ...	...	Mud wall	1 0	Mud wall	2 0	Mud wall	11 0	do	mud ...				2,976
	Stable and cook-room	do ...	...	Kutchia brick-work...	1 0	Kutchia brick wall	1 0	Kutchia brick wall	8 0	do	do ...					481
ROGHOWATPORA POLICE STATION.	Main bungalow	Single ...	Nil ...	...	1 6	Kutchia brick-work faced with pucca brick.	2 6	Kutchia brick-work...	13 0	do	terrace ...	Rs. 1,400, as per book Rs. 1,462.	2,041	2,041	
	Guards' room	do ...	...	Kutchia pucca and kutchia brick-work.	1 0	Kutchia brick-work...	1 6	Mud wall	11 0	do	mud ...				2,976
	Stable and cook-room	do ...	...	Mud	1 0	Mud	1 0	Mud wall	8 0	do	do ...					481

P. C. DANIAH, C. E.,
Assistant Engineer,
for Executive Engineer,
Hazaribagh Division.

BHAUGULPORE DIVISION.

ABBREVIATIONS.—P, pucca; k p, kutcha pucca; p k p, pucca and kutcha pucca; d w, daub and wattle; cor, corrugated; d, dressed; ter, terraced; b l, brick in lime; b m, brick in mud; r, rubble; c r, coursed rubble; d s, dry stone; c, concrete; p s t, pent single tiled; p d t, pent double tiled; t, thatched; b f, brick flat; f, flagged; in, inner; o, outer; u, upper; gr, ground.

Executive Division.	Locality.	Name of building.	Description and Height of Walla.										Cost.	Area.	Rate per superficial foot.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
			Single or double storied.	Foundation.		Plinth.	Walls (to top of wall-plate).	Roof.	Floor.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
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Executive Division.	Locality.	Name of building.	Description and Height of Walls.						Roof.	Floor.	Cost.	Area.	Rate per superficial foot.
			Foundation.		Plinth.	Walls (to top of wall-plate).							
			Single or double storied.	Concrete.		Masonry.	Average. Ft. In.	Ft. In.					
		District Jail—Contd.											
		Church	single	...	...	...	...	...	...	...	...	...	...
		P. W. store godown	do	...	...	...	...	...	...	...	...	...	...
		Police house	do	...	...	...	...	...	...	...	...	...	...
		Out-office No. 1	do	...	...	...	...	...	...	...	...	...	...
		do No. 2	do	...	...	...	...	...	...	...	...	...	...
		do No. 3	do	...	...	...	...	...	...	...	...	...	...
		Dak bungalow	do	...	...	...	...	...	...	...	...	...	...
		Central Jail Buildings.											
		Wards for male convicts	single	...	...	...	...	...	...	...	...	...	...
		do	do	...	...	...	...	...	...	...	...	...	...
		do	do	...	...	...	...	...	...	...	...	...	...
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		do	do	...	...	...	...	...	...	...	...	...	...
		do	do	...	...	...	...	...	...	...	...	...	...
		Wards for boys	do	...	...	...	...	...	...	...	...	...	...
		European cells	do	...	...	...	...	...	...	...	...	...	...
		Wards for females	do	...	...	...	...	...	...	...	...	...	...
		do	do	...	...	...	...	...	...	...	...	...	...
		Hospital for male convicts	do	...	...	...	...	...	...	...	...	...	...
		do	do	...	...	...	...	...	...	...	...	...	...
		Solitary cells	do	...	...	...	...	...	...	...	...	...	...
		Lock-out tower	three	...	...	...	...	...	...	...	...	...	...
		Sentry box No. 1	double	...	...	...	...	...	...	...	...	...	...
		do No. 2	do	...	...	...	...	...	...	...	...	...	...
		do No. 3	do	...	...	...	...	...	...	...	...	...	...
		do No. 4	do	...	...	...	...	...	...	...	...	...	...
		do No. 5	do	...	...	...	...	...	...	...	...	...	...
		do No. 6	do	...	...	...	...	...	...	...	...	...	...
		do No. 7	do	...	...	...	...	...	...	...	...	...	...
		Warder's house No. 1	do	...	...	...	...	...	...	...	...	...	...
		do No. 2	do	...	...	...	...	...	...	...	...	...	...
		do No. 3	do	...	...	...	...	...	...	...	...	...	...
		do No. 4	do	...	...	...	...	...	...	...	...	...	...
		do No. 5	do	...	...	...	...	...	...	...	...	...	...
		do No. 6	do	...	...	...	...	...	...	...	...	...	...
		Admission cells	single	...	...	...	...	...	...	...	...	...	...
		Jailor's house	double	...	...	...	...	...	...	...	...	...	...
		Superintendent's house	single	...	...	...	...	...	...	...	...	...	...
		New work-shed	do	...	...	...	...	...	...	...	...	...	...

[illegible]

(4)

Locality.	Name of building.	Single or double storied.	Foundation.		Plinth.	Walls (to top of wall-plate.)	Roof.	Floor.	Cost.	Area.	Rate per superficial foot.
			Concrete.	Masonry.							
Monghyr—contd.	Imperial Buildings.								Rs.		Rs. A. P.
	Opium Kucherry	...	...	...	...	...	...	...	2,416	4,650	0 11 9
	do Godown	...	...	...	...	...	...	...	1,000	2,274	0 7 0
	Post Office	single	...	1 6 P	...	...	...	...	8,076	2,438	1 4 3
Jamalsore	Post Office	do	...	1 6	...	...	...	...	8,000	2,438	1 3 8
Jamsoe	Provincial Buildings.										
	Deputy Magistrate's Kucherry	single	...	1 6 P	...	...	...	...	7,150	2,213	3 3 8
	do Banglow	...	...	...	...	...	...	...	7,514	2,907	2 9 8
	Second Class Lock-up	double	...	2 6	...	...	...	...	10,540	2,973	1 0 10
Bagoosarie	Deputy Magistrate's Kucherry and residence.	double	...	2 0 P	...	...	...	...	15,557	2,805	5 13 4
Surrujgarrah	Imperial Buildings.										
	Opium Godown	single	...	...	...	...	...	...	8,133	8,278	0 15 3
	Provincial Buildings.										
	Assistant Commissioner's Kucherry.	single	...	2 0	...	...	...	...	2,000	5,208	0 6 1
Doomke	do Bungalow	do	...	...	...	...	...	...	8,071	4,701	0 10 5
	Outer room to do	do	...	...	...	...	...	...	1,000	2,484	0 6 6
	Treasury room	do	...	...	...	...	...	...	1,384	688	2 5 8
	do and Revard room	do	...	...	...	...	...	...	6,354	8,347	1 14 4
Doomke	Main Building including compound wall.	do	...	...	...	...	...	...	7,483	8,328	0 14 4
	Temporary accommodation of the Civil Surgeon and Commanding Officer.	...	...	...	...	...	...	...	8,918	5,754	0 10 10
	Executive Commissariat accommodation.	single	...	1 6	...	...	...	...	6,841	5,209	1 6 0
	Circuit House	do	...	...	...	...	...	...	5,600	5,655	1 0 1
Deoghar	Assistant Commissioner's Bungalow and Kucherry.	...	...	...	...	...	...	...	2,000	6,146	0 6 3
	Sub-Assistant Commissioner's Kucherry.	...	...	...	...	...	...	...	2,500	8,146	

BAGDUR—contd.

(5)

Pakour	do Banglow	single	...	...	...	...	...	...	1,750	3,331	0 8 4
	Old Circuit house	do	...	...	...	...	...	...	2,000	3,150	0 10 2
	School house	do	...	...	...	...	...	...	10,000	4,808	2 1 3
	Sub-Divisional Kucherry.	do	...	...	...	...	...	...	8,104	2,160	3 13 0
Sahabganje	do dwelling-house	do	...	...	...	...	...	...	5,646	2,243	2 8 3
	First class Lock-up—Main building.	do	...	...	...	...	...	...			
	Compound wall	...	...	...	...	...	...	...			
	Cook-house No. 1	single	...	...	...	...	...	...	7,773	8,325	0 14 11
Rajmehal	do No. 2	do	...	...	...	...	...	...			
	Day privy No. 1	do	...	...	...	...	...	...			
	do No. 2	do	...	...	...	...	...	...			
	Well	...	...	...	...	...	...	...			
Muddapore	Imperial Buildings.										
	Telegraph Office	single	...	...	...	...	...	...	7,464	2,688	2 12 5
	Servant's house	do	...	...	...	...	...	...	2,343	1,563	1 8 0
	Signal's house	do	...	...	...	...	...	...	1,134	758	1 8 0
Jamtara	Post Office	do	...	...	...	...	...	...	2,000	2,000	1 3 9
	Compound wall	single	...	...	...	...	...	...			
	Cook-room	do	...	...	...	...	...	...	850	81	
	Privy	do	...	...	...	...	...	...			
Jamtara	5th class Post Office	do	...	...	...	...	...	...	2,431	1,479	0 13 8
	Residence	do	...	...	...	...	...	...			
	Clerk's house	do	...	...	...	...	...	...	615	881	
		...	...	...	...	...	...	...	253		
Jamtara	Provincial Buildings.										
	Thannah	single	...	...	...	...	...	...	1,519	1,173	0 10 3
	Inspector's quarters	do	...	...	...	...	...	...	588	588	
	Sub-Inspector's do Lines	single	...	...	...	...	...	...	1,173	3,864	2 6 11
Jamtara	Staging Bungalow	single	...	...	...	...	...	...	12,744	5,238	4 508
	Sub-Divisional Bungalow	do	...	...	...	...	...	...			
	Office	do	...	...	...	...	...	...			
	Cook-room	do	...	...	...	...	...	...	47	47	
Jamtara	Servant's house	do	...	...	...	...	...	...	658	770	0 8 7
	do	do	...	...	...	...	...	...			
	Stable	do	...	...	...	...	...	...	4,051	701	
	Well	...	...	...	...	...	...	...	7,496	...	

Executive Division.	Locality.	Name of building.	DESCRIPTION AND HEIGHT OF WALLS.										Cost.	Area.	Rate per superficial foot.		
			Single or double storied.	Foundation.		Plinth.	Walls (to top of wall-plate.)	Roof.	Floor.								
				Concrete.	Masonry.												
BHAUGULPORE — concluded.	Gadda	Assistant Commissioner's Kucherry.	single	...	...	Average. Ft. in.	Average. Ft. in.	...	...	...	...	...	...	...	...	...	Ra. A. P.
		do Baugulow	do	...	...	1 6	2 0 k p	...	...	...	...	...	...	...	...	...	2 6 1
		First class Lock-up—	do	...	...	2 0	1 0 do	...	...	...	...	...	...	...	...	...	2 10 11
		Main building	do	...	...	2 0 p	2 6 p	...	...	...	...	...	...	...	...	...	
		Compound wall	do	...	...	2 0 p	...	...	...	...	...	...	...	...	...	...	
		Cook-house No. 1	single	...	...	1 0 p	1 0 p	...	...	...	...	...	...	...	...	...	
		do No. 2	do	...	...	1 0 p	...	...	...	...	...	...	...	...	...	...	
		Day privy No. 1	do	...	...	...	...	...	...	...	...	...	...	...	...	...	
		do No. 2	do	...	...	...	...	...	...	...	...	...	...	...	...	...	
		Well	...	...	...	...	...	...	...	...	...	...	...	...	...	...	

(6)

W. CONNAN, C. E.,
Executive Engineer, Bhagulpore Division.

C. T. STEWART, Colonel R. E.,
Superintending Engineer, Western Circle.

Statement of construction, cost and length of bridges exceeding 50 lineal feet in the Bhagulpore Division.

Executive Division.	Name of bridge, or of river or nullah, and situation.	Date of completion.	Description of bridge.	Kind and depth of foundation.	No. and size of spans.	Width of roadway between parapets or railings.	Height of roadway above foundations or river-bed.	Total length of bridge.	Total cost.	Cost per 100 feet of length.	Remarks.
BHAUGULPORE.	Bridge No. 11 on the 23rd mile, Hundun, over the River Kara Kowse.	Mar 1876 ...	Iron plate girder bridge...	Foundation on screw piles; average depth 20 feet.	14 spans, each 30 feet in length.	10 3	Average height, 21 feet above river bed.	420 0	Rs. 51,553	Rs. 12,298	Only Rs. 5,801 shown as expenditure in this Office Register.
	Bridge No. 15 on the 30th mile over the river Bownah.	do	The centre portion 258 feet in length is of iron plate girder. The two sides are of wood.	do do 15 "	6 spans of 43 feet each in the centre, and 3 of 23 feet 3 inches on each side.	13 8	do 32 feet do	397 4	5,801	...	
	Bridge No. 18 on the 33rd mile.	Nov 1876 ...	Iron plate girder bridge...	do do 14 "	3 spans of 27 feet 3 inches each.	11 2½	do 8 " do	81 9	11,123	13,608	
	Bridge No. 19 on the 33rd mile.	do	do	do do 8 "	do	11 2½	do 10 " above bed.	81 9	Estimated, 11,616	14,208	
	Bridge No. 22 on the 38th mile.	Aug 1876 ...	do	do do 10 "	do	11 8	do 10 " do	81 9	Estimated, 9,932	12,149	
	Bridge No. 23 on the 38th mile.	Jan 1877 ...	do	do do 12 "	4 spans of 30 feet each.	11 6	do 8 " do	120 0	Estimated, 7,159	6,968	
	Bridge No. 24 on the 41st mile—Bolgatchee over the river Panar.	do	The centre portion measuring 240 feet is of Warren girder, and the two sides are of plate girder.	do do 30 "	4 spans of 60 feet each in the centre, and 3 of 80 feet each on each side.	20 2½	do 25 " do	360 0	86,898	24,138	
	Bridge No. 28 on the 42nd mile.	do	Iron plate girder bridge	do do 20 "	7 spans of 30 feet each.	11 7	do 20 " do	210 0	19,260	9,171	
	Bridge No. 29 over the Borah nullah on the 43rd mile.	March 1877	do	do do 28 "	17 spans of 30 feet each.	11 6	do 20 " do	510 0	69,676	11,505	
	Bridge No. 31 on the 44th mile.	Sept 1876...	do	do do 28 "	8 spans of 30 feet each.	11 2	do 20 feet do	240 0	13,193	5,497	
	Bridge No. 32 over Breese nullah on the 45th mile.	Jan 1877 ...	The centre portion measuring 189 feet is of Warren girder, and the two sides are of plate girders.	do do 25 "	3 spans of 60 feet each in the centre and 1 of 30 feet on one side, and 3 of 30 feet each on the other side.	20 2½	do 25 " do	270 0	58,582	21,697	
	Bridge No. 34 on the 46th mile.	March 1876	Iron plate girder bridge	do do 7 "	3 spans of 30 feet each.	11 6	do 13 " do	90 0	Estimated, 5,600	6,222	
	Bridge No. 35 on the 46th mile.	do	do	do do 10 "	do	10 0	do 8 " do	90 0	4,882	5,424	
	Bridge No. 36 over the Hizealah nullah on the 47th mile.	Nov 1876 ...	do	do do 12 "	9 spans of 30 feet each.	10 0	do 6 " do	270 0	22,627	9,380	
	Bridge No. 37 on the 48th mile.	March 1876	do	do do 20 "	3 spans of 30 feet each.	10 0	do 10 " do	90 0	4,795	5,328	
	Bridge No. 38 over Perwan nullah on the 48th mile.	do	do	do do 20 "	8 spans of 30 feet each.	10 0	do 21 feet do	240 0	Estimated, 73,591	6,080	

Executive Division.	Locality.	Name of building.	Single or double storied.	Foundation.				Plinth.	Walls (top of wall plate).	Roof.	Floor.	Cost.	Area.	Rate per superficial feet.	
				Foundation.		Ft. In.	Ft. In.								
				Concrete.	Masonry.										
BHAUGULPORE—contd.	Dingra	Imperial Buildings.	...	...	...	...	...	...	...	...	...	Rs.	...	...	
		Post Office	single	...	...	...	...	...	...	...	...	...	3,000	1,314	2 4 6
		Provincial.	...	...	...	...	...	...	...	...	...	...	...	...	...
		Dak Bungalow	single	...	...	...	...	...	...	...	...	...	6,000	2,160	2 12 6
		Provincial Buildings.	...	...	...	...	...	...	...	...	...	...	...	...	...
	Maldah	Court house	partly double and partly single	...	...	...	...	...	...	...	...	...	...	25,773	...
		Old Residency	...	...	...	...	...	...	...	...	...	...	...	...	...
		Stable to ditto	single	...	...	...	...	...	...	...	...	...	...	2,058	...
		Treasure guard	do	...	...	...	...	...	...	...	...	...	...	1,138	...
		Police office.	do	...	...	...	...	...	...	...	...	...	...	728	...
Maldah	Public Works godown, Municipal godown and Road Cases	do	...	...	...	...	...	...	...	...	...	...	1,633	...	
	District Engineer's godown	do	...	...	...	...	...	...	...	...	...	...	...	...	
	Circuit house	do	...	...	...	...	...	...	...	...	...	...	7,181	...	
	Cook-house	do	...	...	...	...	...	...	...	...	...	...	1,813	...	
	Civil Surgeon's office	do	...	...	...	...	...	...	...	...	...	...	799	...	
Maldah	School house	do	...	...	...	...	...	...	...	...	...	...	3,691	...	
	Jail buildings	do	...	...	...	...	...	...	...	...	...	...	4,338	...	
	Jail hospital	do	...	...	...	...	...	...	...	...	...	...	1,947	...	
	Hajut ward	do	...	...	...	...	...	...	...	...	...	7,485	1,894	3 15 7	

C. T. STEWART, Colonel, R. E.,

Superintending Engineer, Western Circle.

No. 27, P. W. D. Press—28-1-31—763.

W. CONNAN, C. E.,

Executive Engineer, Bhagulpore Division.

DURDHANGA DISTRICT SUB-DIVISION.

ABBREVIATIONS—p, pucca; k p, kutcha pucca; p k p, pucca and kutcha pucca; d w, daub and wattle; cor, corrugated; d, dressed; ter, terraced; b l, brick in lime; b m, brick in mud; r, rubble; c r, coursed rubble; d a dry stone; c, concrete; p s t, pent single tiled; p d t, pent double tiled; t, thatched; b f, brick flat; a, flagged; in, inner; o, outer; u, upper; gr, ground.

Executive Division.	Locality	Name of building.	DESCRIPTION AND HEIGHT OF WALLS.										Cost.	Area.	Rate per superficial foot.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
			Single or double storied.	Foundation.		Plinth.	Walls (to top of wall-plate.)	Roof.	Floor.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
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LATI MOZYKPORE DIVISION.	Modhoobuny	Court house	single	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...</

* Since made pucca by the firm.

N. B.—The cost and area of all the buildings are taken from the register.

C. T. STEWART, Colonel, R. E.,

Superintending Engineer, Western Circle.

J. J. O'FLAHERTY, C. E.,

Executive Engineer, Patna Division.

Statement of construction, cost, and length of bridges exceeding 50 lineal feet in the Durlbanga Sub-Division.

Executive Division.	Name of bridge, or of river or nullah, and situation.	Date of completion.	Description of bridge.	Kind and depth of foundation.	No. 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.
				Nil.							

J. J. O'FLAHERTY, C. E.,

Executive Engineer, Patna Division.

27, P. W. D. Press—28 1-81—765.

[For Heads of Departments only.]

Circular No. III Public Works.

GOVERNMENT OF INDIA.

PUBLIC WORKS DEPARTMENT.

CIVIL WORKS.

Miscellaneous.

To

THE GOVERNMENTS OF MADRAS, BOMBAY, BENGAL, AND THE WESTERN PROVINCES AND OUDH, AND PUNJAB, IN THE PUBLIC WORKS DEPARTMENT.

THE CHIEF COMMISSIONERS, CENTRAL PROVINCES, BRITISH BURMAH, AND ASSAM.

THE RESIDENT AT HYDERABAD.

THE AGENTS TO THE GOVERNOR GENERAL FOR CENTRAL INDIA, RAJPUTANA AND BILUCHISTAN.

THE ACCOUNTANT GENERAL, PUBLIC WORKS DEPARTMENT.

THE INSPECTOR GENERAL OF MILITARY WORKS.

THE DIRECTOR GENERAL OF RAILWAYS.

THE FOREIGN DEPARTMENT, FOR COMMUNICATION TO CHIEF COMMISSIONER OF MYSORE AND COORG.

Bam, January 27, 1881.

In continuation of Circular No. XXXIII P W, dated the 23rd October 1880, the undersigned is directed to forward herewith, for information, the following statements of areas and cost of buildings, and memorandum of construction and cost of bridges exceeding 50 feet in length :—

For the Western and Orissa Circles in the Bengal Presidency.

W. P. Younkens Captain, R. E.,

Asstt. Secy. to the Govt. of India.

To The Secy to the Govt. of Madras
Public Works DepartmentS. Cooper Esq. Secy
Separate copies
Per Pocket Book.

No 575 Wd/3rd hand

Communication

to the officers of the
Public Works. D.
in continuation of
G.O. 117 N of 15 Jan 1881

S. E. J. -

J. W. C. N. 1253

GOVERNMENT OF INDIA.
PUBLIC WORKS DEPARTMENT
CIVIL WORKS.
Miscellaneous.

P. W. March

To

Circular No. III Public Works.

Dated January 27, 1881.

Received *Feb 25th*

Ref-2

*with 60 lbs of the latter of 60 lbs
of each of the fuel.*

G. I. C.

S. E. J. with 10 sc each

C. E. J. J. J.

C. E. J. J. J. with 10 sc

Suppl of Wd/3

For: Cricketers

6: Suppl P. W. W. J. 11

Forwards, for information, statements of areas
and cost of buildings, and memorandum of con-
struction and cost of bridges exceeding 50 feet in
length?—

For the Western and Orissa Circles in the
Bengal Presidency.

No. 27, P. W. D. Press—28-1-81—765.

1575 W

17-6-74
17-12-95

J. W. C. No. 1254
Govt. of (1881) Madras.
MILITARY.

To
THE QUARTERMASTER-GENERAL,
&c., &c., &c.

Dated Februry, 21st.

Issued

Recd.

No. of SC - 20.

Encl.

G.O., 21st February 1881, No. 1068.

No. 576 Wd/4
Communication
Bengal Presidency in
and to request that the scale for
possible, with that adopted for the Bengal
be submitted for the consideration and orders of the Government
estimate of the financial result as compared with the present expenditure.

No. 367.

No. 632.

In continuation of reference docket, No. 4840, dated 24th August 1877, the Secretary to Government, Military Department, has the honor to forward to the Quartermaster-General a copy of Proceedings of Government, No. 6985, dated 18th December 1877, and to request that the scale of hospital equipment therein sanctioned for British troops in this Presidency may, as in Bengal, be incorporated in the draft G.O.G., fixing a scale of barrack and hospital supplies.

(By Order.)

FORT ST. GEORGE,
5th February 1878.

(Signed) J. MICHAEL, Colonel,
Secretary to Government.

No. 368. Telegram from the Secretary to the Government of India, Military Department, dated 7th August 1878, No. 321.

No. 369. From the Quartermaster-General, dated 17th August 1878, No. 818.

GOVERNMENT OF MADRAS.

MILITARY DEPARTMENT.

21st February 1881, No. 1068.

Barrack Department—Supplies.

Read the following papers:—

No. 366. *From Colonel H. K. BURNE, c.b., Secretary to the Government of India, Military Department, to Colonel J. MICHAEL, c.s.i., Secretary to Government, Military Department, Fort St. George; dated Simla, 17th August 1877, No. 449-S.*

Barrack Department—Supplies.

With reference to your letter, No. 306, of the 25th January 1867, submitting for sanction a scale of barrack supplies to European troops serving in the Madras Presidency, and to subsequent correspondence relating thereto, I am directed to invite your attention to the revised scale of barrack supplies sanctioned for the Bengal Presidency in Government General Order, No. 681, dated 20th July 1877, and to request that the scale for Madras may be revised in assimilation, as far as possible, with that adopted for the Bengal Presidency, and that the scale may then be submitted for the consideration and orders of the Government of India with an estimate of the financial result as compared with the present expenditure.

No. 367.

No. 632.

In continuation of reference docket, No. 4840, dated 24th August 1877, the Secretary to Government, Military Department, has the honor to forward to the Quartermaster-General a copy of Proceedings of Government, No. 6985, dated 18th December 1877, and to request that the scale of hospital equipment therein sanctioned for British troops in this Presidency may, as in Bengal, be incorporated in the draft G.O.G., fixing a scale of barrack and hospital supplies.

(By Order.)

FORT ST. GEORGE,
5th February 1878.

(Signed) J. MICHAEL, Colonel,
Secretary to Government.

No. 368. *Telegram from the Secretary to the Government of India, Military Department, dated 7th August 1878, No. 321.*

No. 369. *From the Quartermaster-General, dated 17th August 1878, No. 818.*

- No. 370. *With report from the Controller of Mily. Accounts, 27th Aug. 1878, B.*
- No. 371. *To the Secretary to the Government of India, Military Department, dated 12th September 1878, No. 4707.*
- No. 372. *From the Secretary to the Government of India, Military Department, dated 21st October 1878, No. 734-S.*
- No. 373. *From the Quartermaster-General, dated 2nd May 1879, No. 260.*
- No. 374. *To the same Officer, dated 7th May 1879, No. 2451.*
- No. 375. *From the same Officer, dated 20th March 1880, No. 2525.*
- No. 376. *To the Secretary to the Government of India, Military Department, dated 3rd May 1880, No. 2726.*
- No. 377. *From Colonel A. JOHNSON, Secretary to the Government of India, Military Department, to Colonel J. MICHAEL, c.s.i., Secretary to Government, Military Department, Fort St. George; dated Simla, 22nd June 1880, No. 863-S.C.*

Barrack Department—Supplies.

I am directed to acknowledge the receipt of your letter, No. 2726, dated 3rd May 1880, and in reply to state, for the information of the Governor in Council, that

Enclosure herewith returned.

the Government of India sanction the adoption generally of the Bengal scale of barrack furniture, &c., for European troops serving in the Madras Presidency, subject to the condition that, prior to the publication of the scale, it shall be carefully scrutinized by the Quartermaster-General, Madras Army, in communication with the Controller of Military Accounts, with reference to the differences in local circumstances between the two Presidencies, which does not appear to have been sufficiently kept in view in the preparation of the scale submitted, as shown below:—

- (1) Pages 52, 53, "Furniture for Offices of Deputy Assistant Quartermaster-Generals."—It is proposed to adopt the same scale of furniture as that laid down for Bengal, notwithstanding that officers of the Quartermaster-General's Department serving with Commands in the Madras Presidency receive a special contract allowance to meet all expenses for clerks, office accommodation and furniture, which is not the case in Bengal.—*Vide* Article 124b, Pay Code, Vol. I.
- (2) Page 91, "Dooly, Army, with Cover."—Two are proposed for a regiment of British Cavalry or Infantry as in the Bengal Presidency, whereas, according to para. 281, Madras Commissariat Code, one dooly only is at present allowed to each European and Native hospital in garrison.

- (3) Page 177, "Dry Earth" for conservancy purposes is entered to be supplied for all hospitals as required. In Bengal, the rubbish carts which carry away the sweepings from the lines bring back a supply of dry earth for use in the latrines.—*Vide* para. 634, Bengal Barrack Regulations.

No. 4200.

Referred to His Excellency the Commander-in-Chief, for favor of issue of the necessary orders.

(By Order.)

OOTACAMUND,
5th July 1880.

(Signed) J. MICHAEL, Colonel,
Secretary to Government.

- No. 378. *From Brigadier-General H. O'CONNELL, Quartermaster-General, to Colonel J. MICHAEL, c.s.i., Secretary to Government, Military Department; dated Ootacamund, 1st November 1880, No. 1495.*

In forwarding the accompanying draft G.O.G. for approval and publication in Orders, as directed in reference order* from Government, No. 4200, dated 5th

* Herewith returned.

July 1880, I have the honor, by order, to offer the following explanation in respect to the remarks contained in the letter from the Secretary to the Government of India, No. 863-S.C., dated 22nd June 1880, forwarded therewith:—

I.—*Furniture for Offices of the Quartermaster-General's Department in Out-stations.*—The contract allowance granted to these officers in the Madras Command does not provide for the expenses of office furniture. Furniture for these offices in the Madras Command is provided for separately in G.O.G., No. 25, dated 6th February 1852.

II.—*Two Doolies for Regiments of European Cavalry and Infantry.*—Two doolies have been entered in the revised list of barrack supplies for the Madras Presidency in place of one dooly, as at present allowed, because it was understood that the intention of the Government of India was to assimilate as far as possible the Madras scale with that of Bengal; hence the scale allowed in Bengal was adopted.

III.—*Dry Earth.*—The remark that rubbish carts which carry away the sweepings from the lines should, if possible, bring back a supply of dry-earth for use in the latrines, has been entered at the foot of page 177 of the revised scale.

2. In page 53 of the list of barrack supplies, Madras scale, Column 4, the word "Assistant" will be necessarily added before "Deputy Assistant." This will be done by this office in communication with the Superintendent of the Government Press, when the list of barrack supplies is printed.

3. I am instructed to request that the Superintendent of the Government Press may be directed to supply this office with 200 copies of the revised list of barrack supplies, for the use of this office and for distribution to corps and departments.

4. The draft G.O.G. has been prepared in the terms of the Bengal G.G.O., No. 861, dated 28th July 1877.

- No. 379. *With report from the Controller of Mily. Accounts, 21st January 1881, A.*

No. 380. *From the Surgeon-General, Her Majesty's Forces, dated 30th November 1880, No. 38.*

No. 381. *With report from the Controller of Mily. Accounts, 13th December 1880, E.*

No. 382. *From Brigadier-General H. O'CONNELL, Quartermaster-General, to Colonel E. L. HANKIN, Acting Secretary to Government, Military Department; dated Fort St. George, 24th January 1881, No. 598.*

In returning the papers referred to the Commander-in-Chief in O.G., No. 7830, dated 14th December 1880, I have the honor, by order, to state that, in the revised list of barrack supplies, page 171, submitted to Government for sanction in this office letter, No. 1495, dated 1st November 1880, two tubs (half-cask) for bathing for the hospitals of Native Cavalry and Native Infantry regiments are provided, and the Surgeon-General, Her Majesty's Forces, to whom a reference was made on the subject, states that the one tub (half-cask) for the special use of patients suffering from itch and other skin diseases applied for by him in his letter to Government, No. 38, dated 30th November 1880, is required in addition to the two tubs above mentioned, and that when the three tubs (half-cask) are issued, the hip-bath and foot-bath at present supplied to the said hospitals will not be required.

2. On the sanction of Government being received for the additional tub, the necessary alteration will be made to the revised list of barrack supplies.

3. The Surgeon-General, Her Majesty's Forces, further states that the additional tub applied for will not be required for "Station staff" and "Garrison hospitals" referred to in page 171 of the revised list of barrack supplies.

No. 383. ORDER THEREON, 21st February 1881, No. 1068.

The Right Honorable the Governor in Council approves the Revised Scale of Barrack Supplies* for the Madras Army, submitted with the Quartermaster-General's letter, No. 1495, dated 1st November 1880, and directs that it be published,—the alterations proposed in that officer's letter, No. 598, dated 24th January, being previously made.

2. The Superintendent of the Government Press will supply the Quartermaster-General with 200 spare copies of the Scale.

3. Ordered that the following G.O. be published:—

(Here enter No. 128, dated 21st February 1881).

(True Extract.)

E. L. Hankin

Colonel,

Ag. Secretary to Government.

To the Quartermaster-General.

- " Inspector-General of Ordnance.
- " Commissary-General.
- " Surgeon-General of Her Majesty's Forces in Madras.
- " Controller of Military Accounts.
- " Public Works Department. *not to be sent*
- " Supervisor Government Press.

Exd. A. Raitt.

APPENDIX

TO

O. G., DATED 21st FEBRUARY 1881, No. 1068.

BENGAL SCALE. TABLE NO. 147.

List of Furniture, &c., authorized for Regiments and Departments, to be supplied by the Public Works Department.*

1	2	3	4	5
Letter.	Articles.	Where required and for what purpose.	Authorized Proportion.	Remarks.
A.	Almirahs	Guard-room cells for clothing and cooking utensils.	1	Per each set of cells or prisons.
	Arm-Rack	Guard-room	1	Per Guard-room of British and Native troops, whether in public or private buildings, and to all permanent guards, including those of General Officers, Officers Commanding Stations and Regiments, Officers' Mess, Hospitals, &c., &c.
B.	Black Board and Easel.	Schools for Adults.	4	Per Regiment, Head-quarters of Brigade of Artillery or Division of Artillery consisting of three or more batteries, also for every Convalescent and Family Depot exceeding 500 men.
			3	Per Wing of Regiment, also Division of Artillery consisting of two batteries, also for every Convalescent and Family Depot of 200 men and upwards to 500 men.
			2	Per single detached Battery, Royal Artillery, or Battery with its own school, and for Detachment of a regiment under a wing, also for every Convalescent and Family Depot, not exceeding 200 men in strength.
		Schools for Infants.	1	Per Infant School of a regiment or wing of British Infantry and Cavalry and Head-quarters of a Brigade or Division of Artillery, consisting of two or more batteries, also for every Convalescent and Family Depot.
		Schools	2	Extra for Regiment or Division of Artillery when the number of adults attending school at any one time exceeds 200.

* All the articles of furniture authorized in this list are for British Troops, except where specially allowed for Native Troops.

MADRAS SCALE.

List of Furniture, &c., authorized for Regiments and Departments, to be supplied by the Commissariat and other Departments, through the Barrack Department.*

1	2	3	4	5	6
Letter.	Articles.	Where required and for what purpose.	Authorized proportion.	Remarks.	Reasons for deviation from the Bengal Scale.
A.	Almirahs	Guard-room cells for clothing and cooking utensils.	1	Per each set of cells or prisons.	
	Arm-Rack	Guard-room	1	Per Guard-room of British and Native troops, whether in public or private buildings, and to all permanent guards, including those of General Officers, Officers Commanding Stations and Regiments, Officers' Mess, Hospitals, &c., &c.	The size of the rack to be regulated by the number of men for whom the guard-room is constructed.
B.	Black Board and Easel.	Schools for Adults.	4	Per Regiment, Head-quarters of Brigade of Artillery or Division of Artillery consisting of three or more batteries, also for every Convalescent and Family Depot exceeding 500 men.	
			3	Per Wing of Regiment, also Division of Artillery consisting of two batteries, also for every Convalescent and Family Depot of 200 men and upwards to 500 men.	
			2	Per single detached Battery, Royal Artillery, or Battery with its own school, and for Detachment of a regiment under a wing, also for every Convalescent and Family Depot not exceeding 200 men in strength.	
		Schools for Infants.	1	Per Infant School of a regiment or wing of British Infantry and Cavalry and Head-quarters of a Brigade or Division of Artillery consisting of two or more batteries, also for every Convalescent and Family Depot.	
		Schools	2	Extra for Regiment or Division of Artillery when the number of adults attending school at any one time exceeds 200.	

* All the articles of furniture authorized in this list are for British Troops, except where specially allowed for Native Troops.

BENGAL SCALE. TABLE No. 147.—(Continued).

List of Furniture, &c., authorized for Regiments and Departments, to be supplied by the Public Works Department.

1	2	3	4	5
Letter.	Articles.	Where required and for what purpose.	Authorized Proportion.	Remarks.
B.	Book-case, Library pattern.	Library ...	1 Per Library of Battery of Royal Artillery. 2 Per Library of an entire Regiment of British Cavalry or Infantry. 1 Per Library of Wing of British Cavalry or Infantry and of Convalescent Depot. 1 Extra under special sanction of Commander-in-Chief. 2 Per School for a Regiment, Headquarters of a Brigade or Division of Artillery of three or more batteries, also for Convalescent or Family Depôts exceeding 500 men in strength. 1 Per School of a detached battery or detachment of a regiment under a wing. 1 Per School for adults and grown children of a Wing of a Regiment or Division of Artillery consisting of two batteries, also for Convalescent or Family Depôts not exceeding 500 men. 1 Per Infant School-room of a Regiment or Wing of British Cavalry or Infantry or Division of Artillery consisting of two or more batteries, also for every Convalescent or Family Depot.	
		Schools for Adults.		Book-cases are only to be given where recesses with shelves of the standard size have not been provided in the walls of the buildings.
		Schools for Infants.		
	Boxes, dry-earth	Urinary ...	1 Per Urinary.	
		Latrine ...	1 For each seat in a latrine.	
	Boxes, kit ...	Barrack and quarters.	1 Per unmarried Non-commissioned Officer and Private. 2 Per married Non-commissioned Officer and Private.	Padlocks and keys for soldiers' kit boxes are to be supplied by the Ordnance Department as soldiers' necessities.
		For sea service boardship.	1 Per woman embarking ... 1 Per widower with children embarking.	External dimensions of these boxes are to be 2' x 1' 6" x 14". Their weight is not to exceed 40 lb.

List of Furniture, &c., authorized for Regiments and Departments, to be supplied by the Commissariat and other Departments, through the Barrack Department.

1	2	3	4	5	6
Letter	Articles.	Where required and for what purpose.	Authorized Proportion.	Remarks.	Reasons for deviation from the Bengal Scale.
B.	Book-case, Library pattern.	Library ...	1 Per Library of Battery of Royal Artillery. 2 Per Library of an entire Regiment of British Cavalry or Infantry. 1 Per Library of Wing of British Cavalry or Infantry and of Convalescent Depôt. 1 Extra under special sanction of Commander-in-Chief. 2 Per school for a Regiment, Head-quarters of a Brigade or Division of Artillery of three or more batteries, also for Convalescent or Family Depôts exceeding 500 men in strength. 1 Per School of a detached battery or detachment of a regiment under a wing. 1 Per School for adults and grown children of a Wing of a Regiment or Division of Artillery consisting of two batteries, also for Convalescent or Family Depôts not exceeding 500 men. 1 Per Infant School-room of a Regiment or Wing of British Cavalry or Infantry or Division of Artillery consisting of two or more batteries, also for every Convalescent or Family Depôt.		
		Schools for Adults.		Book-cases are only to be given where recesses with shelves of the standard size have not been provided in the walls of the buildings.	
		Schools for Infants.			
	Boxes, dry-earth	Urinary ..	1 Per Urinary.		
		Latrine ...	1 Per each seat in a latrine.		
	Boxes, kit	Barrack and quarters.	1 Per unmarried Non-commissioned Officer and Private. 2 Per married Non-commissioned Officer and Private.	Boxes, padlocks and keys for soldiers' kit boxes are to be supplied by the Ordnance Department as soldiers' necessities.	Boxes, kit, are also supplied by the Ordnance in the Madras Presidency.
		For sea service boardship.	1 Per woman embarking 1 Per widower with children embarking.	External dimensions of these boxes are to be 2' x 1' 6" x 14". Their weight is not to exceed 40 lb. Are supplied by the Ordnance Department.	

BENGAL SCALE. TABLE NO. 147.—(Continued).

List of Furniture, &c., authorized for Regiments and Departments, to be supplied by the Public Works Department.

1	2	3	4	5
Letter.	Articles.	Where required and for what purpose.	Authorized Proportion.	Remarks.
B.	Boxes, kit, with padlocks and keys.	School for Adults.	2 Per Adult School.	For custody of Hindustani books.
		Industrial School	2 Per Industrial School of a Regiment and Head-quarters of a Brigade or Division of Artillery of three or more batteries, and for every Convalescent or Family Depot over 500 men.	For custody of sewing materials.
			1 Per Industrial School of a wing or detachment of a regiment, Division of Artillery of two batteries, detached battery school, also for every Convalescent Depot not exceeding 500 men.	
	Do. ...	For the Viceroy's Body-Guard when located at either Calcutta or Dehra.	1 Per Man.	
	Brands ...	For marking barrack and hospital furniture.	1 Set Per Station.	
	Buckets, galvanised iron.	Filter tanks. water	40 Per Regiment of British Infantry, being 5 per company.	
			30 Per Regiment of British Cavalry, being 5 per troop.	
			10 Per Battery of Horse Artillery, or Light Field Battery.	
			7 Per Heavy Field, Mountain or Garrison Artillery.	
			1 Per twenty men of the authorized strength of a Convalescent Depot.	

MADRAS SCALE.—(Continued).

List of Furniture, &c., authorized for Regiments and Departments, to be supplied by the Commissariat and other Departments, through the Barrack Department.

1	2	3	4	5	6
Letter.	Articles.	Where required and for what purpose.	Authorized Proportion.	Remarks.	Reasons for deviation from the Bengal Scale.
B.	Boxes, kit, with padlocks and keys.	School for Adults.	2 Per Adult School ...	To be supplied by the Ordnance Department, for custody of Hindustani books.	
		Industrial School	2 Per Industrial School of a Regiment and Head-quarters of a Brigade or Division of Artillery of three or more batteries, and for every Convalescent or Family Depot over 500 men	For custody of sewing materials.	
			1 Per Industrial School of a wing or detachment of a regiment, Division of Artillery of two batteries, detached battery school, also for every Convalescent Depot not exceeding 500 men.	To be supplied by the Ordnance Department.	
	Do. ...	For the Governor's Body Guard in Camp.	1 Per Man ...	To be supplied by the Ordnance Department.	
	Brands ..	For marking barrack and hospital furniture.	1 Set Per Station		
	Buckets, galvanised iron.	Filter tanks. water	40 Per Regiment of British Infantry, being five per company.		
			30 Per Regiment of British Cavalry, being five per troop.		
			10 Per Battery of Horse Artillery, or Light Field Battery.		
			7 Per Heavy Field, Mountain or Garrison Artillery.		
			1 Per twenty men of the authorized strength of a Convalescent Depot.		

List of Furniture, &c., authorized for Regiments and Departments, to be supplied by the Public Works Department.

1	2	3	4	5
Letter.	Articles.	Where required and for what purpose.	Authorized Proportion.	Remarks.
C.	Carts, filth and rubbish. (Crowley pattern).	Barracks and hospitals.	2 Per Battery of Artillery, or Division of Artillery consisting of two batteries.	Crowley-pattern, conservancy carts to be made up to replace the present conservancy carts as they become unserviceable.
			1 Additional cart to be allowed to each additional battery at a station over two batteries.	
			4 Per British Cavalry Regiment.	
			2 Per Head-quarters or detached Wing of a British Cavalry Regiment.	
			5 Per British Infantry Regiment.	
			3 Per Head-quarters or detached Wing of a British Infantry Regiment.	
			1 Per detached troop or company where necessary.	
			1 Per detached Wing of Native Infantry Regiment.	Only allowed when the wing is detached from Head-quarters to a station where no station conservancy establishment exists.
			Convalescent Depôts	To be provided with carts on the above scale, ninety men, women and children (two children being calculated as one adult) being considered equivalent to a troop or company. Where carts are not used, extra sweepers to be entertained for every cart to which the depôt would be entitled.
		Military prisons in the plains.	1 For each prison.	
	Carts, water ...	For military purposes.	... To be supplied in special cases only when the ordinary water-supply falls short. They are not intended for watering roads or for departmental use.	When any urgent necessity arises for water carts, temporary ones could generally be provided without difficulty or delay by securing empty beer-casks or country carts.
	Chairs, cane-bottomed.	Officers' and Officers' Guard room.	3 Per Orderly-room.	
			6 Per Officers' Guard-room.	
			2 Per Musketry Lecture-room.	
		Office	2 Per Gymnasium.	

List of Furniture, &c., authorized for Regiments and Departments, to be supplied by the Commissariat and other Departments, through the Barrack Department.

1	2	3	4	5	6	
Letter.	Articles.	Where required and for what purpose.	Authorized Proportion.	Remarks.	Reasons for deviation from the Bengal Scale.	
C.	Carts, filth and rubbish (Crowley pattern) or other local pattern introduced.	Barracks and hospitals.	2	The allotment for each corps and battery to be sanctioned by Local Government as may be considered necessary. — <i>Vide</i> remarks.	Crowley-pattern conservancy carts to be made up to replace the present conservancy carts as they become unserviceable.	In Proceedings of Madras Government, No. 92 dated 6th Jan. 1876, letter from the Government of India, No. 816, dated 15th December 1875, was communicated, in which sanction was accorded to the recommendation that in the Madras Presidency the case of each corps and battery of Artillery should be considered separately, and such establishment as may be found necessary to meet the requirements of locality rates &c. sanctioned.
	Carts, water ..	Military prisons in the plains. For military purposes.	1 ...	For each prison. To be supplied in special cases only when the ordinary water-supply falls short. They are not intended for watering roads or for departmental use.	When any urgent necessity arises for water carts, temporary ones could generally be provided without difficulty or delay by securing empty beer-casks on country carts.	
	Chairs, cane-bottomed.	Officers and Officers' Guard room. Office	3 6 2 2	Per Orderly-room. Per Officers' Guard-room. Per Musketry Lecture-room. Per Gymnasium.		N. B. — No furniture to be obtained from the nearest J. if possible if not from the Comm. sarint.

BENGAL SCALE. TABLE NO. 147.—(Continued).

List of Furniture, &c., authorized for Regiments and Departments, to be supplied by the Public Works Department.

1	2	3	4	5
Letter.	Articles.	Where required and for what purpose.	Authorized Proportion.	Remarks.
C.	Chairs, cane-bottomed. — (Continued).	Court-martial Rooms of British troops.	8	Per Court-martial Room.
		School...	1	Per Adults' School-room.
			1	Per Infants' School-room.
	Do. Barrack	For married men. For Serjeants' Messes.	1	Per Serjeant.
		Guard-rooms for Native troops.	1	Per Native Commissioned Officer in guard-rooms other than regimental guard-rooms.
	Do. Dais ...	Schools ...	1	Per Schoolmaster or mistress.
	Charcoal burner for Macnamara filter.	For the purification of the animal charcoal used with these filters.	1	For each Regiment of Cavalry.
			1	For each Regiment of Infantry.
			1	For each Company of Royal Engineers.
			1	For each Division of Royal Artillery.
			1	For each detached Battery of Royal Artillery.
			1	For each Wing or Detachment of Cavalry or Infantry.
			1	For each Hill Depôt.
	Chopping Blocks large.	Ration Stands...	1	Per Ration Stand.
	Chopping Blocks small.	Cook-houses ...	1	Per Cook-room for single and married men, Serjeants' Mess, Staff Serjeants' barracks, and detached quarters.
	Charpoys ...	Guard-rooms for Native troops.	1	Per Native Commissioned Officer in guard-room other than regimental guard-room.
	Clocks ...	Schools for Adults and grown children.	1	Per School for British troops when absolutely necessary.
		Schools for Infants.	1	For each Infant School-room when absolutely necessary.

MADRAS SCALE.—(Continued).

List of Furniture, &c., authorized for Regiments and Departments, to be supplied by the Commissariat and other Departments, through the Barrack Department.

1	2	3	4	5	6
Letter.	Articles.	Where required and for what purpose.	Authorized Proportion.	Remarks.	Reasons for deviation from the Bengal Scale.
C.	Chairs, cane-bottomed. — (Continued).	Court-martial Rooms of British troops.	8	Per Court-martial Room ...	When located in a building constructed for the purpose. For chaplains or lady visitors.
		School...	1	Per Adults' School-room ...	
			1	Per Infants' School-room ...	
	Do. Barrack	For married men " Serjeants' Messes.	1	Per Serjeant.	
		Guard-rooms for Native troops.	1	Per Native Commissioned Officer in guard-rooms other than regimental guard-rooms.	
	Do. Dais ...	Schools ...	1	Per Schoolmaster or mistress	
	Charcoal burner for Macnamara filter.	For the purification of the animal charcoal used with these filters.	1	For each Regiment of Cavalry.	
			1	For each Regiment of Infantry.	
			1	For each Company of Royal Engineers.	
			1	For each Division of Royal Artillery.	
			1	For each detached Battery of Royal Artillery.	
			1	For each Wing or Detachment of Cavalry, or Infantry.	
			1	For each Hill Depôt.	
	Chopping Blocks large.	Ration Stands...	1	Per Ration Stand.	
	Chopping Blocks small.	Cook-houses ...	1	Per Cook-room for single and married men, Serjeants' Mess, Staff Serjeants' barracks, and detached quarters.	
	Charpoys ...	Guard-rooms for Native troops.	1	Per Native Commissioned Officer in guard-room other than regimental guard-room.	
	Clocks ...	Schools for Adults and grown children.	1	Per School for British troops when absolutely necessary.	
		Schools for Infants.	1	For each Infant School-room when absolutely necessary.	

BENGAL SCALE. TABLE No. 147.—(Continued).

List of Furniture, &c., authorized for Regiments and Departments, to be supplied by the Public Works Department.

1	2	3	4	5
Letter.	Articles.	Where required and for what purpose.	Authorized Proportion.	Remarks.
C.	Clubs ...	Drill ...	1 Set 2 Sets	Per Company of Infantry or Troop of Cavalry. Per Battery of Artillery ...
				The number of clubs constituting each set is as follows:— 1 pair of 4 lb. clubs. 2 pairs of 6 lb. " 1 pair of 8 lb. " 1 pair of 10 lb. " 1 pair of 12 lb. "
	Cots, iron, trestle, 6½ long 2½ broad and 1' 7½ high.	Barracks ...	2	Per married Serjeant, Schoolmaster, Schoolmistress and soldier.
			1	Per single Serjeant, Schoolmaster and Schoolmistress and soldier.
		Guard-room ...	1	Per man on guard, according to authorized strength.
	Cots, Newar, standard pattern, with poles and frames for musquito curtains.	Officers' Guard-rooms, main.	1	Per Officer on guard.
	Cupboards ...	Mess utensils...	1	Per Mess ...
			1	Per Cook-house.
D.	Desks, long ...	School-room for adults and grown children.	1	For every four adults or grown children, attending school at one time.
	Desks, 9' long, 21" high in front.	Schools for Infants.	1	For twenty-four infants or under attending school at one time.
			2	For any number of infants over twenty-four.
	Desks, with dais	School-room ...	1	Per Schoolmaster or Schoolmistress.
				ROYAL ARTILLERY.
				Battery of Light Field or Horse Artillery.
F.	Filters, Macnamara, with the following component parts. Stand ... 1 Screw keys iron 1 Sieves, cane ... 2 Rammer, wooden ... 1 Bandage Cloth, 1" broad, according to requirements.	Barracks and buildings.	2	Per single men's barracks (except when more than two barracks are occupied, when three may be given.)
				Petty repairs to Macnamara filters are to be done by regiments and batteries. The charcoal and sand required to charge the filters, as also the surahis and ½ casks with covers, will be supplied by the Commissariat Department.

MADRAS SCALE.—(Continued).

List of Furniture &c., authorized for Regiments and Departments, to be supplied by the Commissariat and other Departments, through the Barrack Department.

1	2	3	4	5	6
Letter.	Articles.	Where required and for what purpose.	Authorized Proportion.	Remarks.	Reasons for deviation from the Bengal Scale.
C.	Clubs ...	Drill ...	1 Set 2 Sets	Per Company of Infantry or Troop of Cavalry. Per Battery of Artillery ...	To be supplied by Ordnance Department. The number of clubs constituting each set is as follows:— 1 pair of 4 lb. clubs. 2 pairs of 6 lb. " 1 pair of 8 lb. " 1 pair of 10 lb. " 1 pair of 12 lb. "
	Cots, iron, trestle, 6½ long, 2½ broad and 1' 7½ high.	Barracks ...	2	Per married Serjeant, Schoolmaster, Schoolmistress and soldier.	
			1	Per single Serjeant, Schoolmaster, Schoolmistress and soldier.	
		Guard-room ...	1	Per man on guard, according to authorized strength.	
	Cots, Newar, standard pattern, with poles and frames for musquito curtains.	Officers' Guard-rooms, main.	1	Per Officer on guard.	
	Cupboards ...	Mess utensils...	1	Per Mess ...	
			1	Per Cook-house.	
D.	Desks, long ...	School-room for adults and grown children.	1	For every four adults or grown children attending school at one time.	
	Desks, 9' long, 21" high in front.	Schools for Infants.	1	For 24 infants or under attending school at one time.	
			2	For any number of infants over 24.	
	Desks, with dais	School-room ...	1	Per Schoolmaster or mistress.	
				ROYAL ARTILLERY.	
				Battery of Light Field, or Horse Artillery.	
F.	Filters, Macnamara, with the following component parts. Stand ... 1 Screw keys iron 1 Sieves, cane ... 2 Rammer, wooden ... 1 Bandage Cloth, 1" broad, according to requirements.	Barracks and buildings.	2	Per single men's barracks (except when more than two barracks are occupied when three may be given.)	Petty repairs to Macnamara filters are to be done by regiments and batteries. The charcoal and sand required to charge the filters, as also the surahis and ½ casks with covers, will be supplied by the Commissariat Department.

BENGAL SCALE. TABLE NO. 147.—(Continued).

List of Furniture, &c., authorized for Regiments and Departments, to be supplied by the Public Works Department.

1	2	3	4	5
Letter.	Articles.	Where required and for what purpose.	Authorized Proportion.	Remarks.
F.	Filters, Macnara.—(Contd.)	Barracks and buildings.	1	For the Quarters of married men.
			1	Per Guard-room when the strength of the guard is twelve men and upwards.
			1	Per Canteen.
			1	As a reserve for the head-quarters of a Brigade or Division of Artillery or detached Battery.
				To be kept in Quarter-master's store, and used only on the temporary withdrawal of the filters in use for repairs or cleaning.
				<i>Heavy Field, Mountain or Garrison Battery.</i>
			1	Per single men's barracks (except when more than two barracks are occupied, when two may be given.)
			1	For the Quarters for married men.
			1	Per Guard-room when the strength of the guards is 12 men and upwards.
			1	Per Canteen ...
			1	As a reserve for Division of Artillery or detached Battery.
				To be kept in Quarter-master's store, and used only on the temporary withdrawal of the filters in use for repairs or cleaning.
				<i>NOTE.—Where two or more batteries are located at the same station, instead of the single battery scale, one filter will be allowed for the Divisional canteen.</i>
				<i>BRITISH CAVALRY.</i>
			6	Per single men's barracks (or one for each troop or for each barrack occupied up to six.)
			3	For Quarters for married men (or one for each block occupied up to three.)
			1	Per Guard-room.
			1	Per Canteen.
			2	As a reserve ...
				To be kept in Quarter-master's store, and used only on the temporary withdrawal of the filters in use for repairs or cleaning.

MADRAS SCALE.—(Continued).

List of Furniture, &c., authorized for Regiments and Departments, to be supplied by the Commissariat and other Departments, through the Barrack Department.

1	2	3	4	5	6
Letter.	Articles.	Where required and for what purpose.	Authorized Proportion.	Remarks.	Reasons for deviation from the Bengal Scale.
F.	Filters, Macnara.—(Contd.)	Barracks and buildings.	1	For the Quarters of married men.	
			1	Per Guard-room when the strength of the guard is twelve men and upwards.	
			1	Per Canteen ...	
			1	As a reserve for the head-quarters of a Brigade or a Division of Artillery or detached Battery.	
				To be kept in Quarter-master's store, and used only on the temporary withdrawal of the filters in use for repairs or cleaning.	
				<i>Heavy Field, Mountain or Garrison Battery.</i>	
			1	Per single men's barracks (except when more than two barracks are occupied, when two may be given.)	
			1	For the Quarters for married men.	
			1	Per Guard-room when the strength of the guards is 12 men and upwards.	
			1	Per Canteen.	
			1	As a reserve for a Division of Artillery or detached Battery.	
				To be kept in Quarter-master's store, and used only on the temporary withdrawal of the filters in use for repairs or cleaning.	
				<i>NOTE.—Where two or more batteries are located at the same station, instead of the single-battery scale, one filter will be allowed for the Divisional canteen.</i>	
				<i>BRITISH CAVALRY.</i>	
			6	Per single men's barracks (or one for each troop or for each barrack occupied up to six.)	
			3	For Quarters for married men (or one for each block occupied up to three.)	
			1	Per Guard-room.	
			1	Per Canteen.	
			2	As a reserve ...	
				To be kept in Quarter-master's store and used only on the temporary withdrawal of the filters in use for repairs or cleaning.	

BENGAL SCALE. TABLE No. 147.—(Continued).

List of Furniture, &c., authorized for Regiments and Departments, to be supplied by the Public Works Department.

1	2	3	4	5
Letter.	Articles.	Where required and for what purpose.	Authorized Proportion.	Remarks.
F.	Filters, Macnamara.— (Concluded.)	Barracks and buildings.	8	BRITISH INFANTRY. Per single men's Barracks (or one for each barrack occupied up to eight).
			6	For the Quarters for married men (or one for each block occupied up to six.)
			1	Per Guard-room.
			1	Per Canteen.
			2	As a reserve
				To be kept in Quarter-master's store, and used only on the temporary withdrawal of the filters in use for repairs or cleaning.
				CONVALESCENT DEPÔTS.
			1	For each building accommodating twelve persons and upwards.
			1	For the Canteen.
			1	Per Guard-room when the strength of the guard is twelve men and upwards.
			2	As a reserve for each depôt
				To be kept in Quarter-master's store, and used only on the temporary withdrawal of the filters in use for repairs or cleaning.
		School-room ...	1	Per School for British troops where absolutely necessary.
		Filter Stand ...	4	Per Barrack
		Barracks, for holding filter ghurras.		To be allowed when Macnamara filters are not supplied.
	Forms with backs, 5 feet.	Stables and Riding Schools.	...	According to requirements.
		Reading-rooms	...	Two superficial feet of form allowed per man, the number of men to be calculated at the rate of fifteen superficial feet of space per man.
		Libraries	...	Two superficial feet of form allowed per man; the number of men to be calculated at the rate of fifteen superficial feet of space per man.

MADRAS SCALE.—(Continued).

List of Furniture, &c., authorized for Regiments and Departments, to be supplied by the Commissariat and other Departments, through the Barrack Department.

1	2	3	4	5	6
Letter.	Articles.	Where required and for what purpose.	Authorized Proportion.	Remarks.	Reasons for deviation from the Bengal Scale.
F.	Filters, Macnamara.— (Concluded.)	Barracks and buildings.	8	BRITISH INFANTRY. Per single men's Barracks (or one for each barrack occupied up to eight.)	
			6	For the Quarters for married men (or one for each block occupied up to six.)	
			1	Per Guard-room.	
			1	Per Canteen.	
			2	As a reserve	
				To be kept in Quarter-master's store and used only on the temporary withdrawal of the filters in use for repairs or cleaning.	
				CONVALESCENT DEPÔTS.	
			1	For each building accommodating twelve persons and upwards.	
			1	For the Canteen.	
			1	Per Guard-room when the strength of the guard is twelve men and upwards.	
			2	As a reserve for each depôt	
				To be kept in Quarter-master's store and used only on the temporary withdrawal of the filters in use for repairs or cleaning.	
		School-room ...	1	Per School for British troops where absolutely necessary.	
		Filter Stand ...	4	Per Barrack	
		Barracks, for holding filter ghurras.		To be allowed when Macnamara filters are not supplied.	
	Forms with backs, 5 feet.	Stables and Riding Schools.	...	According to requirements.	
		Reading-rooms	...	Two superficial feet of form allowed per man, the number of men to be calculated at the rate of fifteen superficial feet of space per man.	
		Libraries	...	Two superficial feet of form allowed per man, the number of men to be calculated at the rate of fifteen superficial feet of space per man.	

BENGAL SCALE. TABLE No. 147.—(Continued).

List of Furniture, &c., authorized for Regiments and Departments, to be supplied by the Public Works Department.

1	2	3	4	5
Letter.	Articles.	Where required and for what purpose.	Authorized Proportion.	Remarks.
F.	Forms with backs, 5 ft.— (Continued.)	Orderly-rooms	8 For a Regiment of British troops, or Division of Artillery of three or more batteries of Royal Artillery.	
			4 For a Wing of a regiment of British troops, or Division of Artillery of two batteries.	
			2 For a Detachment of British troops, less than a wing, or of a Hill Depôt of less than 200 men.	
			2 Per Battery Orderly-room of Royal Artillery in addition to those for Divisional Orderly-rooms.	
			4 Per Orderly-room for a hill depôt of 200 men and upwards.	
	Forms with backs, 7½ feet long.	School for Infants.	1 Per six infants attending school at one time where no permanent gallery is provided.	These forms should be of four different heights, viz., 9", 12", 15" and 18", and are to be issued in order from lowest to highest: e.g., if three forms only are required, the three lowest in order viz., 9", 12" and 15" are to be issued; if five forms are required, two of the lowest and one each of the others. The forms of 18 inches are to be supplied with foot rails 4 inches from the ground.
	Forms without backs, 5 feet.	Messes, rank and file.	2 Per five men, or two running feet per man.	
		Guard-room ...	2 Per five men, or two running feet per man on guard.	
		Lecture-room...	2 Per five men, or two running feet per man attending lectures at one time.	
	Forms, high, without backs, 2' in height and 9' long.	School for Adults or grown children.	1 For every twenty pupils attending at one time.	

MADRAS SCALE.—(Continued).

List of Furniture, &c., authorized for Regiments and Departments, to be supplied by the Commissariat and other Departments, through the Barrack Department.

1	2	3	4	5	6
Letter.	Articles.	Where required and for what purpose.	Authorized Proportion.	Remarks.	Reasons for deviation from the Bengal Scale.
F.	Forms with backs, 5 ft.— (Continued.)	Orderly-rooms.	8 For a Regiment of British troops, or Division of Artillery of three or more batteries of Royal Artillery.		
			4 For a Wing of a regiment of British troops, or Division of Artillery of two batteries.		
			2 For a Detachment of British troops less than a wing, or of a Hill Depôt of less than 200 men.		
			2 Per Battery Orderly-room of Royal Artillery in addition to those for Divisional Orderly-rooms.		
			4 Per Orderly-room for a hill depôt of 200 men and upwards.		
	Forms with backs, 7½ feet long.	School for Infants.	1 Per six infants attending school at one time, where no permanent gallery is provided.	These forms should be of four different heights, viz., 9", 12", 15" and 18", and are to be issued in order from lowest to highest: e.g., if three forms only are required, the three lowest in order, viz., 9", 12" and 15", are to be issued; if five forms are required, two of the lowest and one each of the others. The forms of 18 inches are to be supplied with foot rails 4 inches from the ground.	
	Forms, without backs, 5 feet.	Messes, rank and file.	2 Per five men, or two running feet per man.		
		Guard-room ...	2 Per five men, or two running feet per man on guard.		
		Lecture-room...	2 Per five men, or two running feet per man attending lectures at one time.		
	Forms high, without backs, 2' in height and 9' long.	School for Adults or grown children.	1 For every twenty pupils attending at one time.		

BENGAL SCALE. TABLE No. 147.—(Continued).

List of Furniture, &c., authorized for Regiments and Departments, to be supplied by the Public Works Department.

1	2	3	4	5
Letter.	Articles.	Where required and for what purpose.	Authorized Proportion.	Remarks.
F.	Forms, middling, without backs, 1' 9" in height, 9' long.	Schools for Adults or grown children.	1	For every twelve pupils attending at one time.
	Forms, low, 1' 6" in height and 9' long.	Do. do.	1	For every eight pupils attending at one time.
		Guard-room cells for school purposes.	1	For every four prisoners attending school at one time.
	Forms, 10 feet	Schools for Infants.	1	Per desk in infants' school.
	Flag Staff ...	Plunge Baths ...	2	Per Plunge Bath.
			1	Per Divisional Head-Quarters, Brigadier-General Commanding a District or Station, and each Fort.
				Flag staffs will be supplied and repaired by the Ordnance Department, at Fort William, Allahabad, Ferozepore, and Rawal Pindi, the Public Works Department undertaking their supply and repair at all other stations.
G.	Gratings, 2' x 2'	Lavatories ...	1	Per private ablution room to each lavatory.
	Gratings, 5 feet	Do. ...	1	Per every five running feet of basin stands.
H.		Plunge Baths ...	4	Per Plunge Bath.
	Harness Racks	Artillery harness ...	...	According to requirements on special indent for temporary harness-rooms not on the standard plan.
				All harness-rooms should, as a rule, be provided with fixed harness racks.
	Horse for clothes	Lavatories ...	1	Per Lavatory.
				For the men to hang their clothes on.
I.	Inventory and Notice Boards.	Barracks, out-buildings and Government buildings for British and Native troops.	1	Per Notice or Building supplied with Government furniture.
		Cooking Receipt Boards.	1	Per Cook-house for barracks for single men.
J.	Jhamps, with poles each.	Temporary barrack buildings.	...	To be determined by local circumstances and provided on special indent under sanction by Officer Commanding the Division or District.

MADRAS SCALE—(Continued).

List of Furniture, &c., authorized for Regiments and Departments, to be supplied by the Commissariat and other Departments, through the Barrack Department.

1	2	3	4	5	6
Letter.	Articles.	Where required and for what purpose.	Authorized Proportion.	Remarks.	Reasons for deviation from the Bengal Scale.
F.	Forms, middling, without backs, 1' 9" in height, and 9' long.	Schools for Adults or grown children.	1	For every twelve pupils attending at one time.	
	Forms, low, 1' 6" in height and 9' long.	Do. do.	1	For every eight pupils attending at one time.	
		Guard-room cells for school purposes.	1	For every four prisoners attending school at one time.	
	Forms, 10 feet	Schools for Infants.	1	Per desk in infants' school.	
	Flag Staff ...	Plunge Baths ...	2	Per Plunge Bath.	
			1	Per Governor and Commander-in-Chief, Divisional Head-Quarters, Brigadier-General Commanding a District or Station, and each Fort.	Flag staffs will be supplied and repaired by the Ordnance Department, the Commissariat Department undertaking their supply and repair at stations where there is no Ordnance establishment.
G.	Gratings, 2' x 2'	Lavatories ...	1	Per private ablution room at each lavatory.	
	Gratings, 5 feet	Do. ...	1	Per every five running feet of basin stands.	To extend the whole length of the basin stands.
H.		Plunge Baths ...	4	Per Plunge Bath.	
	Harness Racks	Artillery harness ...	...	According to requirements on special indent for temporary harness-rooms not on the standard plan.	All harness-rooms should, as a rule, be provided with fixed harness racks.
	Horse for clothes	Lavatories ...	1	Per Lavatory ...	For the men to hang their clothes on.
I.	Inventory and Notice Boards.	Barracks, out-buildings and Government buildings for British and Native troops.	1	Per Notice or Building supplied with Government furniture.	
		Cooking Receipt Boards.	1	Per Cook-house for barracks for single men.	
J.	Jhamps, with poles each.	Temporary barrack buildings.	...	To be determined by local circumstances, and provided on special indent under sanction by Officer Commanding the Division or District.	

Vide G.O.C.C., No. 120, 24th September 1878.

BENGAL SCALE. TABLE NO. 147.—(Continued).

List of Furniture, &c., authorized for Regiments and Departments, to be supplied by the Public Works Department.

1	2	3	4	5
Letter.	Articles.	Where required and for what purpose.	Authorized Proportion.	Remarks.
L.	Lamp Ladders...	Lighting lamps	1	Per Barrack, common to all lighters in each barrack.
	Lamp Rods, iron.	Suspending lamps.	1	Per suspended Lamp.
	Lamp Stools ...	Lighting lamps	1	Per barrack, common to all lighters in each barrack.
M.	Mallets...	Store Sheds ...	3	Per Store Shed.
		Latrines ...	2	Per Latrine with more than 10 seats, at stations unprovided with store-sheds.
			1	Per latrine with 10 seats or less at stations unprovided with store-sheds.
	Map Stands ...	Schools ...	2	Per Regiment, Head-quarters of Brigade, and Division of Artillery of three or more batteries, and Convalescent Family Depot of 200 men and upwards.
			1	Per Wing of regiment, and Division of Artillery of two batteries, and Convalescent Family Depot not exceeding 200 men in strength.
			1	Per separate Battery of Royal Artillery not attending divisional schools and for detachments under a wing.
	Map Racks with ten hooks.	Schools ...	1	Per School for British troops ... For schools in possession of maps requiring this kind of map rack.
P.	Padlocks and Keys, brass or copper.	Magazines, British and Native troops.	...	According to requirements.
	Padlocks and Keys, iron.	Forts, Barracks, Hospitals, &c. &c.	...	According to requirements for barrack, hospital, set of family quarters, and out-buildings for British and Native troops supplied with furniture. All doors and windows should be provided with bars, and fastenings from the inside.

MADRAS SCALE.—(Continued).

List of Furniture, &c., authorized for Regiments and Departments, to be supplied by the Commissariat and other Departments, through the Barrack Department.

1	2	3	4	5	6
Letter.	Articles.	Where required and for what purpose.	Authorized Proportion.	Remarks.	Reasons for deviation from the Bengal Scale.
L.	Lamp Ladders...	Lighting lamps	1	Per Barrack, common to all lighters in each barrack.	
	Lamp Rods, iron	Suspending lamps.	1	Per suspended Lamp.	
	Lamp Stools ...	Lighting lamps	1	Per barrack, common to all lighters in each barrack.	
M.	Mallets	Store Sheds ...	3	Per Store Shed.	
		Latrines ...	2	Per latrine with more than ten seats at stations unprovided with store-sheds.	
			1	Per latrine with ten seats or less, at stations unprovided with store-sheds.	
	Map Stands ...	Schools ...	2	Per Regiment, Head-quarters of Brigade and Division of Artillery of three or more batteries, and Convalescent Family Depot of 200 men and upwards.	
			1	Per Wing of regiment and Division of Artillery of two batteries, and Convalescent Family Depot not exceeding 200 men in strength.	
			1	Per separate Battery of Royal Artillery not attending divisional schools, and for detachments under a wing.	
	Map Rack with ten hooks.	Schools ...	1	Per school for British troops	For schools in possession of maps requiring this kind of map rack.
P.	Padlocks and Keys, brass or copper.	Magazines, British and Native troops.	...	According to requirements.	Padlocks and keys are to be supplied by the Ordnance Department
	Padlocks and keys, iron.	Forts, barracks, hospitals, &c., &c.	...	According to requirements for barrack, hospital, set of family quarters and out-buildings for British and Natives troops supplied with furniture.	

BENGAL SCALE. TABLE No. 147.—(Continued).

List of Furniture, &c., authorized for Regiments and Departments, to be supplied by the Public Works Department.

1	2	3	4	5
Letter.	Articles.	Where required and for what purpose.	Authorized Proportion.	Remarks.
P.	Padlocks and Keys.	For Railway baggage wagons attached to troop extra trains.	20 150 100 20 100 100 50 20 20 20	For Agra. " Allahabad " Calcutta. " Dinapore. " Jubbulpore. " Lahore. " Lucknow. " Meerut. " Mooltan. " Umballa. These padlocks and keys are to be supplied by the Ordnance Department, to the Public Works Department, by which latter Department they are to be kept in store, and issued as required.
	Pointers, long Do. short Privy Pans, iron	School Privies ...	1 1 1	Per Black Board and Easel. Do. do. Per opening in privy seat ... To be supplied only when good glazed earthenware ones are not procurable by the Commissariat Department.
	Punkahs	... Barracks ...	...	According to requirements.
		Officers' Quarters.	...	According to requirements in the first instance.
	Punkah Connecting Bars.	Barracks ...	...	According to requirements.
	Punkah Fringes, 18 inches deep	Do. ...	...	One fringe per punkah.
		Officers' Quarters.	...	To be supplied or paid for by occupants.
	Punkah Ropes or Canes.	Pulling punkahs	...	According to requirements.
		Officers' Quarters.	...	To be supplied or paid for by occupants.
	Punkahs suspending Rods or Ropes.	Barracks ...	...	According to requirements.
		Officers' Quarters.	...	According to requirements in the first instance.
			...	Renewals of suspending ropes or rods to be paid for by occupants.

MADRAS SCALE—(Continued).

List of Furniture, &c., authorized for Regiments and Departments, to be supplied by the Commissariat and other Departments, through the Barrack Department.

1	2	3	4	5	6
Letter.	Articles.	Where required and for what purpose.	Authorized Proportion.	Remarks.	Reasons for deviation from the Bengal Scale.
P.	Padlocks and keys.	For Railway baggage wagons attached to troop extra trains.	18 24 20 6 6 12 12	For Centre District. " Southern District. " Mysore Division. " Malabar and Canara. " Ceded Districts. " Hyderabad Subsidiary Force. " Nagpore Force.	Vide O.G., No. 3906, dated 9th December 1872. These padlocks and keys are to be supplied by the Ordnance Department to Staff Officers of the Quarter master-General's Department in Divisions Districts and Forces, by which latter department they are to be kept in store and issued as required.
	Pointers, long Do. short Privy pans, iron	School Privies ...	1 1 1	Per Black Board and Easel Do. do. Per opening in privy seat ...	To be supplied only when good glazed earthenware ones are not procurable by the Commissariat Department.
	Punkahs	... Barracks ...	...	According to requirements	Punkahs to be supplied by the Public Works Department, fringes by the Barrack Department.
		Officers' Quarters	...	According to requirements in the first instance.	Renewals of punkahs, poles or frames to be supplied or paid for by occupants.
	Punkah connecting bars.	Barracks ...	...	According to requirements.	
	Punkah fringes, 18 inches deep	Do. ...	...	One fringe per punkah.	
		Officers' Quarters	...	To be supplied or paid for by occupants.	
	Punkah Ropes or Canes.	Pulling punkahs	...	According to requirements.	
		Officers' Quarters	...	To be supplied or paid for by occupants.	
	Punkah suspending Rods or Ropes.	Barracks ...	...	According to requirements.	
		Officers' Quarters	...	According to requirements in the first instance.	Renewals of suspending ropes or rods to be paid for by occupant.

BENGAL SCALE. TABLE NO. 147 —(Continued).

List of Furniture, &c., authorized for Regiments and Departments, to be supplied by the Public Works Department.

1	2	3	4	5
Letter.	Articles.	Where required and for what purpose.	Authorized Proportion.	Remarks.
R.	Racks with drawers.	Quartermaster's Store-rooms.	7	Per Regiment of Cavalry or Infantry.
			3	Per detached Wing of Infantry and Convalescent Depot.
			1	Per Battery of Artillery.
	Racks without drawers.	Do.	7	Per Regiment of Cavalry or Infantry.
			3	Per detached Wing of Infantry and Convalescent Depot.
			1	Per Battery of Artillery.
	Receptacles, large, for stations in the plains.	Cook-house painted white.	2	Per each cook-room to barracks for single men.
			2	Per barrack for married men with 20 sets of quarters or less.
			3	Per barrack for married men with more than twenty sets of quarters.
			1	Per each cook-house to Serjeants' mess, Staff Serjeants' barrack.
	Receptacles, small, for Hill stations.	Cook-houses painted white.	3	Per cook-house to barracks for single men accommodating more than fifty men.
			2	Per cook-house to barracks for single men accommodating fifty men and under.
			4	Per cook house to barracks for single men accommodating a full company of ninety men.
			4	Per barrack for married men with twenty sets of quarters or less.
			6	Per barrack for married men with more than twenty sets of quarters.
			1	Per each cook-house to Serjeants' mess, and Staff Serjeants' barracks.
	Receptacles, filth, large, for stations in the plains.	Privies ...	2	Per latrine to barracks for single men.
			2	Per barrack for married men with twenty sets of quarters or less.
			3	Per barrack for married men with more than twenty sets of quarters.

As Crowley carts are introduced, these receptacles are to be reduced in proportion to requirements.

MADRAS SCALE.—(Continued).

List of Furniture, &c., authorized for Regiments and Departments, to be supplied by the Commissariat and other Departments, through the Barrack Department.

1	2	3	4	5	6
Letter.	Articles.	Where required and for what purpose.	Authorized Proportion.	Remarks.	Reasons for deviation from the Bengal Scale.
R.	Racks with drawers.	Quartermaster's Store-rooms.	7	Per Regiment of Cavalry or Infantry.	
			3	Per detached Wing of Infantry and Convalescent Depot.	
			1	Per Battery of Artillery.	
	Racks, without drawers.	Do.	7	Per Regiment of Cavalry or Infantry.	
			3	Per detached Wing of Infantry and Convalescent Depot.	
			1	Per Battery of Artillery.	
	Receptacles, large, for stations in the plains.	Cook-house, painted white.	2	Per each cook-room to barracks for single men.	N. B.—Receptacles or fixtures, wherever they occur, are to be supplied by the Public Works Department.
			2	Per barrack for married men with twenty sets of quarters or less.	
			3	Per barrack for married men with more than twenty sets of quarters.	
			1	Per each cook-house to Serjeants' mess, Staff Serjeants' barrack.	
	Receptacles, small for Hill stations.	Cook-houses, painted white.	3	Per cook-house to barracks for single men accommodating more than fifty men.	
			2	Per cook-house to barracks for single men accommodating fifty men and under.	
			4	Per cook-house to barracks for single men accommodating a full company of ninety men.	
			4	Per barrack for married men with twenty sets of quarters or less.	
			6	Per barrack for married men with more than twenty sets of quarters.	
			1	Per each cook-house to Serjeants' mess and Staff Serjeants' barracks.	
	Receptacles, filth, large, for stations in the plains.	Privies...	2	Per latrine to barracks for single men.	As Crowley carts are introduced these receptacles are to be reduced in proportion to requirements.
			2	Per barrack for married men with twenty sets of quarters or less.	
			3	Per barrack for married men with more than twenty sets of quarters.	

BENGAL SCALE. TABLE No. 147.—(Continued).

List of Furniture, &c., authorized for Regiments and Departments, to be supplied by the Public Works Department.

1	2	3	4	5
Letter.	Articles.	Where required and for what purpose.	Authorized Proportion.	Remarks.
R.	Receptacles, filth, large, for stations in the plains. (Continued.)	Privies...	1	The conservancy arrangements for military signallers to be provided for by Station authorities.
		Urinaries	1	
	Receptacles, filth, small, for Hill stations.	Privies...	2	
			4	
			3	
			2	
			4	
			6	
			1	
		Urinaries	2	
S.	Scoops ..	Urinaries	1	
		Latrines	1	
	Scrapers	Latrine	2	
			1	
	Sieves ...	Store Sheds	3	
		Latrines	2	
			1	

MADRAS SCALE.—(Continued).

List of Furniture, &c., authorized for Regiments and Departments to be supplied by the Commissariat and other Departments, through the Barrack Department.

1	2	3	4	5	6
Letter.	Articles.	Where required and for what purpose.	Authorized Proportion.	Remarks.	Reasons for deviation from the Bengal Scale.
R.	Receptacles, filth large, for stations in the plains.— (Continued.)		1	The conservancy arrangements for Military signallers to be provided for by station authorities.	
		Urinaries	1		
	Receptacles, filth small for Hill stations.	Privies...	2		
			4		
			3		
			2		
			4		
			6		
			1		
		Urinaries	2		
S.	Scoops...	Urinaries	1		
		Latrines	1		
	Scrapers	Latrine	2		
			1		
	Sieves ...	Store-sheds	3		
		Latrines	2		
			1		

BENGAL SCALE. TABLE NO. 147.—(Continued).

List of Furniture, &c., authorized for Regiments and Departments, to be supplied by the Public Works Department.

1	2	3	4	5
Letter.	Articles.	Where required and for what purpose.	Authorized Proportion.	Remarks.
S.	Stands, basin, wooden, 1' 7" broad, 2' 6" high.	Lavatories ...	Three running feet per basin	Wooden stands are to be made up to replace masonry stands only when the latter become unserviceable and are to be provided in numbers suited to existing lavatories except in wash-houses attached to cells, military prisons and quarter-guards.
	Stools, 2 feet high.	Cook-houses ...	1	Per Superintendent on duty in cook-house to barracks for single men.
		Collar makers' shop.	1	Per European Artificer employed.
		Saddlers' shop	1	Per European Saddler and Artificer employed.
T.	Tables, 10' x 3'	Lavatories ...	1	Per private ablution room.
		Messes ...	1	Per ten men, or one running foot per man.
		Serjeants' mess	1	Per ten men, or one running foot per Serjeant.
		Orderly-room ...	2	Per Regiment, and Division of three or more batteries of Royal Artillery.
			1	Per detached Wing of a Regiment and Detachment and Division of two batteries of Royal Artillery, and for Convalescent Depôts.
			1	Per Battery of Royal Artillery in addition to those for divisional orderly-room.
		Office ...	1	Per Gymnasium.
		Court Martial room.	1	Per Court Martial room ... When located in buildings constructed for the purpose.
		Guard-room ...	1	Per ten men, or one running foot per man on guard.
		Libraries and reading rooms	3	Superficial feet of table allowed per man for whom there is space, calculated at fifteen superficial feet of space per man.
		Guard room cells for school purposes.	1	Per each set of cells for persons attending school.
	Tables ...	Officer's guard-room.	1	Per Officer's guard-room.

MADRAS SCALE.—(Continued).

List of Furniture, &c., authorized for Regiments and Departments, to be supplied by the Commissariat and other Departments, through the Barrack Department.

1	2	3	4	5	6
Letter.	Articles.	Where required and for what purpose.	Authorized Proportion.	Remarks.	Reasons for deviation from the Bengal Scale.
S.	Stands, basin, wooden, 1' 7" broad, 2' 6" high	Lavatories ...	Three running feet per basin	Wooden stands are to be made up to re-place masonry stands only when the latter become unserviceable, and are to be provided in numbers suited to existing lavatories except in wash-houses attached to cells, military prisons and quarter-guards.	
	Stools, 2 feet high.	Cook-houses ..	1	Per Superintendent on duty in cook-house to barracks for single men.	
		Collar makers' shop.	1	Per European Artificer employed.	
		Saddlers' shop	1	Per European Saddler and Artificer employed.	
T.	Tables, 10' x 3'	Lavatories ...	1	Per private ablution room.	
		Messes ...	1	Per ten men, or one running foot per man.	
		Serjeants' mess	1	Per ten men, or one running foot per Serjeant.	
		Orderly-room ...	2	Per Regiment and Division of three or more batteries of Royal Artillery.	
			1	Per detached Wing of a Regiment and Detachment and Division of two batteries of Royal Artillery, and for Convalescent Depôts.	
			1	Per Battery of Royal Artillery in addition to those for divisional orderly-room.	
		Office ...	1	Per Gymnasium.	
		Court Martial room	1	Per Court Martial room ... When located in buildings constructed for the purpose.	
		Guard room ...	1	Per ten men, or one running foot per man on guard.	
		Libraries and reading rooms	3	Superficial feet of table allowed per man for whom there is space, calculated at fifteen superficial feet of space per man.	
		Guard room cells for school purposes.	1	Per each set of cells for persons attending school.	
	Tables ...	Officers' guard-room.	1	Per Officers' guard-room.	

BENGAL SCALE. TABLE No. 147.—(Continued).

List of Furniture, &c., authorized for Regiments and Departments, to be supplied by the Public Works Department.

1	2	3	4	5
Letter.	Articles.	Where required and for what purpose.	Authorized Proportion.	Remarks.
T.	Tables, small, 5' x 2' 10".	Non-Commissioned Officers and married men.	1	Per Serjeant, Schoolmaster, mistress, and married man.
		Court martial room.	1	Per Court martial room ... When located in buildings constructed for the purpose.
		Industrial Schools.	2	Per School ... For cutting and needle-work.
	Tables, 3' x 2'	Cook-houses ...	3	Per cook-house for a full Company.
	Thermantidote	Barracks at Peshawar.	...	Sanctioned in lieu of tatties. To be provided under the orders of the Public Works Department.
		Cells in lines of British troops.	...	In lieu of tatties when considered absolutely necessary by the Medical authorities.
	Trays for holding kerosine lamps.	...	1	Per six kerosine lamps in use.
	Trays, iron ...	Urinals ...	1	Per urinal ... Glazed earthenware trays to be supplied by the Commissariat Department when glazed earthenware urinals are in use; iron trays will be provided by the Public Works Department when iron urinals are in use.
	Trestles ...	Store-rooms British and Native troops.	...	According to actual requirements.
	Trunks, camel, with padlocks and keys.	Schools ...	3	Per regiment and head-quarters of Brigade.
			2	Per Wing of a regiment, Division of Artillery, and Convalescent or Family Depôts of upwards of 200 men.
			1	Per single detached Battery with its own school, Detachment of Cavalry or Infantry under a wing, and for every Convalescent or Family Depôt not exceeding 200 men in strength.

MADRAS SCALE.—(Continued).

List of Furniture, &c., authorized for Regiments and Departments, to be supplied by the Commissariat and other Departments, through the Barrack Department.

1	2	3	4	5	6
Letter.	Articles.	Where required and for what purpose.	Authorized Proportion.	Remarks.	Reasons for deviation from the Bengal Scale.
T.	Tables, small, 5' x 2' 10".	Non-Commissioned Officers and married men.	1	Per Serjeant, Schoolmaster, mistress and married man.	
		Court martial room.	1	Per Court martial room ...	When located in buildings constructed for the purpose.
		Industrial Schools.	2	Per School ...	For cutting and needle work.
	Tables, 3' x 2'	Cook-houses ...	3	Per cook-house for a full Company.	
	Thermantidote	Barracks ...	...	According to requirements.	Sanctioned in lieu of tatties.
		Cells in lines of British troops	...	In lieu of tatties when considered absolutely necessary by the Medical authorities.	
	Trays for holding kerosine lamps	...	1	Per six kerosine lamps in use.	
	Trays, iron ...	Urinals ...	1	Per urinal ...	Glazed earthenware trays to be supplied when glazed earthenware urinals are in use; iron trays to be provided when iron urinals are in use.
	Trestles ...	Store-rooms British and Native troops.	...	According to requirements.	
	Trunks, camel, with padlocks and keys.	Schools ...	3	Per regiment and head-quarters of Brigade.	To be supplied by the Ordnance Department.
			2	Per Wing of a regiment, Division of Artillery and Convalescent or Family Depôts of upwards of 200 men.	
			1	Per single detached Battery with its own school, Detachment of Cavalry or Infantry under a wing, and for every Convalescent or Family Depôt not exceeding 200 men in strength.	

List of Furniture, &c., authorized for Regiments and Departments, to be supplied by the Public Works Department.

BENGAL SCALE. TABLE NO. 147.—(Continued).

1	2	3	4	5
Letter.	Articles.	Where required and for what purpose.	Authorized Proportion.	Remarks.
U.	Urinals, iron	Urinals	5	Per Garrison or Mountain Battery, troop of Cavalry, and company of Infantry.
				Glazed earthenware urinals to be supplied by the Commissariat Department; iron urinals to be used only when glazed earthenware ones are not procurable by the Commissariat.
W.	Wash-hand stand, complete. Wrenches	Officers' guard-room.	1	Per Officer's guard-room.
		Iron trestle barrack cot.	2	Per troop or company, or battery of Artillery, using the iron trestle cot.
			1	Per 50 men at a Convalescent Depot.
C.	Chairs, cane-bottomed.	Office	2	FURNITURE FOR HORSE INFIRMARIES.
				Blocks and pulleys for slings for Horse Infirmarys of Royal Artillery and British Cavalry are to be provided as fixtures by the Public Works Department.
F.	Forms, without backs, 5 feet.	Surgery	2	
J.	Jhamps, with two poles.			
T.	Table with drawers. Table, 10' x 3'. Trunks, camel, with padlocks and keys.	Office	1	According to requirements, when considered absolutely necessary by Veterinary Surgeons.
		Surgery	1	
			1 Pair	Per battery of Horse or Field Artillery.
			2 Pairs	Per regiment of Cavalry.
B.	Boxes, kit, padlocks and keys.			FURNITURE FOR MEDICAL SUBORDINATES
			2	Per married medical subordinate.
C.	Chairs, barrack		1	Per unmarried medical subordinate.
			2	Per medical subordinate.
				Furniture is only to be issued to medical subordinates when they occupy rooms in barracks or Government quarters.

MADRAS SCALE—(Continued).

List of Furniture, &c., authorized for Regiments and Departments, to be supplied by the Commissariat and other Departments, through the Barrack Department.

1	2	3	4	5	6
Letter.	Articles.	Where required and for what purpose.	Authorized Proportion.	Remarks.	Reasons for deviation from the Bengal Scale.
U.	Urinals, iron	Urinals	5	Per Garrison or Mountain Battery, troop of Cavalry and company of Infantry.	Glazed earthenware urinals to be supplied; iron urinals to be used only when glazed earthenware ones are not procurable.
W.	Wash-hand stand, complete. Wrenches	Officers' guard-room.	1	Per Officers' guard-room.	
		Iron trestle barrack cot.	2	Per troop or company, or battery of Artillery, using the iron trestle cot.	
			1	Per 50 men at a Convalescent Depot.	

BENGAL SCALE. TABLE NO. 147.—(Continued).

List of Furniture, &c., authorized for Regiments and Departments, to be supplied by the Public Works Department.

1	2	3	4	5
Letter.	Articles.	Where required and for what purpose.	Authorized Proportion.	Remarks.
			FURNITURE FOR MEDICAL SUBORDINATES.—(Continued).	
C.	Cots, iron, trestle.	...	2 Per married medical subordinate.	Furniture is only to be issued to medical subordinates when they occupy rooms in barracks or Government quarters:
			1 Per unmarried medical subordinate.	
T.	Tables, small, 5'x2'10".	...	1 Per medical subordinate.	
			FURNITURE FOR ISSUE TO HOSPITAL APPRENTICES STUDYING AT THE CALCUTTA MEDICAL COLLEGE.	
B.	Boxes, kit, with padlocks and keys.	...	1 Per student.	
C.	Chairs, barrack	...	2 Per student.	
	Cots ...	...	1 Per student.	
	Cupboards ...	Dining-room for cooking utensils.	2	
F.	Forms, with backs, 5 feet.	Reading-room	2	Per five students.
G.	Gratings, 5 feet	Lavatory	1	Per ten students.
L.	Lamp ladders...	Lighting lamps	1	
	Lamp Rods, iron.	Suspending lamps.	12	
P.	Punkah Fringes, 18" deep.	Barrack reading room and dining-room.	1	Per punkah.
	Punkah Ropes or Canes.	Pulling punkahs	...	As required.
R.	Racks, clothes...	Hanging clothes	1	Per student.
T.	Tables, 10'x3'	Dining-room ...	1	Per ten students.
	Tables small, 5'x2'10".	Reading-room...	1	Per ten students.
		...	1	Per student.
W.	Wash hand stand 20'x2'6" to hold 10 basins.	Lavatory for washing.	1	

MADRAS SCALE.—(Continued).

List of Furniture, &c., authorized for Regiments and Departments, to be supplied by the Commissariat and other Departments, through the Barrack Department.

1	2	3	4	5	6
Letter.	Articles.	Where required and for what purpose.	Authorized Proportion.	Remarks.	Reasons for deviation from the Bengal Scale.
			FURNITURE FOR MEDICAL SUBORDINATES.—(Contd.)		
C.	Cots, iron, trestle.	...	2 Per married medical subordinate.		
			1 Per unmarried medical subordinate.		
T.	Tables, small, 5'x2'10".	...	1 Per medical subordinate.		
			FURNITURE FOR ISSUE TO HOSPITAL APPRENTICES STUDYING AT THE MADRAS MEDICAL COLLEGE.		
B.	Boxes, kit, with padlocks and keys.	...	1 Per student...	To be supplied by the Ordnance Department.	
C.	Chairs, barrack	...	2 Per student.		
	Cots ...	...	1 Per student.		
	Cupboards ...	Dining-room for cooking utensils.	2		
F.	Forms with backs, 5 feet.	Reading-room	2	Per five students.	
G.	Gratings, 5 feet	Lavatory	1	Per ten students.	
L.	Lamp ladders...	Lighting lamps	1		
	Lamp Rods, iron	Suspending lamps.	12		
P.	Punkah Fringes, 18" deep.	Barrack, Reading-room and dining room.	1	Per punkah.	
	Punkah Ropes or Canes.	Pulling punkahs	...	As required.	
R.	Racks, clothes...	Hanging clothes	1	Per student.	
T.	Tables, 10'x3'	Dining room ...	1	Per ten students.	
	Tables, small, 5'x2'10".	Reading room ...	1	Per ten students.	
		...	1	Per student.	
W.	Wash-hand stand, 20'x2'6" to hold 10 basins.	Lavatory for washing.	1		

BENGAL SCALE. TABLE No. 147.—(Continued).

List of Furniture, &c., authorized for Regiments and Departments, to be supplied by the Public Works Department.

1	2	3	4	5
Letter.	Articles.	Where required and for what purpose.	Authorized Proportion.	Remarks.
			ARTICLES OF FURNITURE FOR NATIVE ARMY NORMAL SCHOOL AT UMBALLA.	
B.	Black Boards and Easels.	School	6	For the Normal School.
	Book-cases, hospital pattern.	Do.	4	Do. do.
	Boxes, kit, with padlocks and keys.	Do.	6	Do. do.
C.	Chairs, Barracks	Do.	10	Do. do.
	Cupboards	Do.	2	Do. do.
D.	Desks, 9' long, 21" high in front.	Do.	4	Do. do.
F.	Forms with backs, 5 feet	Do.	34	Do. do.
P.	Punkahs with fringes.	Do.	3	Do. do.
	Punkah fringes	Do.	2	Do. do.
T.	Tables, 5' x 2' 10."	Do.	5	Do. do.
	Tables, 10' x 3'	Do.	6	Do. do.
			FURNITURE FOR REST BARRACKS AND REST CAMPS.	
B.	Boxes, dry earth.	For Rest Barracks.	According to requirements on special indent.	1 Per single Serjeant and Private. 2 Per married Serjeant and Private.
C.	Cart, filth, Crowley pattern.			
	Chairs, barrack.			
	Chairs, close stool (only for hospital.)			
	Chairs, easy (for sick men.)			
	Chopping blocks, small.			
	Cots, iron, trestle			
F.	Filters, Macnamara, with component parts, complete			
	Forms, without backs 5 feet long.			
G.	Gratings, lavatory.			
I.	Inventory or Notice Boards			

MADRAS SCALE.—(Continued).

List of Furniture, &c., authorized for Regiments and Departments, to be supplied by the Commissariat and other Departments, through the Barrack Department.

1	2	3	4	5	6
Letter.	Articles.	Where required and for what purpose.	Authorized Proportion.	Remarks.	Reasons for deviation from the Bengal Scale.
			ARTICLES OF FURNITURE FOR NATIVE ARMY NORMAL SCHOOL AT BANGALORE.		
B.	Black Boards and Easels.	School	6	For the Normal School.	To be supplied by the Ordnance Department.
	Book-cases, hospital pattern.	Do.	4	Do. do.	
	Boxes, kit, with padlocks and keys.	Do.	6	Do. do.	
C.	Chairs, Barracks	Do.	10	Do. do.	
	Cupboards	Do.	2	Do. do.	
D.	Desks, 9' long, 21" high in front.	Do.	4	Do. do.	
F.	Forms with backs, 5 feet.	Do.	34	Do. do.	
P.	Punkahs with fringes.	Do.	3	Do. do.	
	Punkah fringes	Do.	2	Do. do.	
T.	Tables, 5' x 2' 10."	Do.	5	Do. do.	
	Tables, 10' x 3'	Do.	6	Do. do.	
			FURNITURE FOR REST BAR- RACKS AND REST CAMPS.		
B.	Boxes dry-earth.	For Rest Barracks.	According to requirements on special indent.	1 Per single Serjeant and Pri- vate. 2 Per married Serjeant and Private.	
C.	Cart, filth, Crow- ley pattern.				
	Chairs, barrack.				
	Chairs, close- stool (only for hospital.)				
	Chairs, easy (for sick men).				
	Chopping blocks small.				
	Cots, iron, trestle				
F.	Filters, Macna- mara, with component parts, complete				
	Forms, without backs, 5 feet long.				
G.	Gratings, lava- tory.				
I.	Inventory or Notice Boards,				

BENGAL SCALE. TABLE No. 147.—(Continued).

List of Furniture, &c., authorized for Regiments and Departments, to be supplied by the Public Works Department.

1	2	3	4	5		
Letter.	Articles.	Where required and for what purpose.	Authorized Proportion.	Remarks.		
			FURNITURE FOR REST BARRACKS, &c. (Continued.)			
L.	Lamps Ladder...	For Rest Barracks.	...	When of iron, to be supplied by the Public Works Department.		
M.	Mallets ...					
P.	Privy pans ...					
R.	Receptacles, cook-house.					
	Receptacles, filth.					
	Receptacles, urinary.					
S.	Scoops, dry-earth.					
	Scrapers, dry-earth.					
	Sieves, dry-earth					
T.	Tables, cook-house, 3' x 2'.					
	Tables, Dispensary.	According to requirements on special indent.	...	Do. do. do.		
	Tables, Mess, 10' x 3'.					
	Tables, small, 5' x 2' 10".					
U.	Urinals ...					
B.	Boxes, dry-earth					
C.	Carts, filth, Crowley pattern.					
	Chairs, barrack					
	Chairs, cane bottomed, for hospital.					
	Chairs, close stool, for hospital.					
	Chopping blocks small.					
F.	Cots, iron, trestle			For Rest Camps.		Do. do. do.
	Filter stands ...					
M.	Mallets, dry-earth.					
P.	Privy pans ...					
R.	Receptacles, cook-house.					
	Receptacles, filth.					
	Receptacles, urinary.					
S.	Scoops, dry-earth.					
	Scrapers, dry-earth.					

MADRAS SCALE.—(Continued).

List of Furniture, &c., authorized for Regiments and Departments, to be supplied by the Commissariat and other Departments, through the Barrack Department.

1	2	3	4	5	6
Letter.	Articles.	Where required and for what purpose.	Authorized Proportion.	Remarks.	Reasons for deviation from the Bengal Scale.
			FURNITURE FOR REST BAR- (RACKS, &c.—Continued).		
L.	Lamps Ladder...	For Rest Barracks.	According to requirements on special indent.		
M.	Mallets ...				
P.	Privy Pans ...				
R.	Receptacles, cook house.				
	Receptacles, filth.				
	Receptacles, urinary.				
S.	Scoops, dry-earth.				
	Scrapers, dry-earth.				
	Sieves, dry-earth				
T.	Tables, cook house, 3' x 2'.				
	Tables, Dispensary.				
	Tables, Mess, 10' x 3'.				
	Tables, small, 5' x 2' 10'.				
U.	Urinals ...				
B.	Boxes, dry-earth.				
C.	Carts, filth, Crowley pattern.				
	Chairs, barrack				
	Chairs, cane bottomed, for hospital.				
	Chairs, close stool for hospital.				
	Chopping blocks small.				
F.	Cots, iron, trestle				
M.	Filter stands ...				
	Mallets, dry-earth.				
P.	Privy pans ...				
R.	Receptacles, cook-house.				
	Receptacles, filth.				
	Receptacles, urinary.				
S.	Scoops, dry-earth.				
	Scrapers, dry-earth.				

BENGAL SCALE. TABLE NO. 147.—(Continued).

List of Furniture, &c., authorized for Regiments and Departments, to be supplied by the Public Works Department.

1	2	3	4	5
Letter.	Articles.	Where required and for what purpose.	Authorized Proportion.	Remarks.
			FURNITURE FOR REST BARRACKS, &c.— (Concluded).	
S.	Sieves, dry-earth	For Rest Camps.	According to requirements on special indent.	
T.	Table, Dispensary.			
	Table, small, 5' x 2' 10".			
U.	Urinals ...			When of iron, to be supplied by the Public Works Department.
C.	Chairs, cane bottomed.	For the use of officers at Rest Barracks and Rest Camps.	2	Per tent or room.
	Commode ...		2	Per privy.
			1	Per bath-room.
			1	Per Officers' necessary tent.
	Cots, newar ...		2	Per tent for married officers.
			1	Per tent for single officers.
F.	Filter stands ...		1	
	Forms without backs, 5 feet		8	Per mess.
R.	Receptacles, filth.		1	
T.	Tables, 10' x 3'		2	Per mess.
	Tables small, 5' x 2' 10".		1	Per tent or room.
U.	Urinals ...		1	Per urinary.
W.	Wash-hand stands.		1	Per bathroom.
				Do. do. do.
			ARTICLES FOR GARRISON INSTRUCTION.	
B.	Black Board and Easel.	School of Garrison Instruction, Musketry Drill.	2	For centres under Chief Instructors.
			1	Do. Garrison do.
	Book-cases, Library pattern.	School of Garrison Instruction.	6	Do. Chief do.
			3	Do. Garrison do.
	Book-cases, with glass doors.	...	2	Do. Chief do.
			1	Do. Garrison do.
	Bridge, Single Lever.			
	Spars 16 feet long (7 inches), for ledges.	...	2	Do. Chief do.
			2	Do. Garrison do.
	Spars, 20 feet long (4 inches at tip) for diagonal braces.	...	4	Do. Chief do.
			4	Do. Garrison do.

MADEAS SCALE.—(Continued).

List of Furniture, &c., authorized for Regiments and Departments, to be supplied by the Commissariat and other Departments, through the Barrack Department.

1	2	3	4	5	6
Letter.	Articles.	Where required and for what purpose.	Authorized Proportion.	Remarks.	Reasons for deviation from the Bengal Scale.
			FURNITURE FOR REST BARRACKS, &c.—(Concluded).		
S.	Sieves, dry-earth	For Rest Camps.	According to requirements on special indent.		
T.	Table, Dispensary.				
	Table, small, 5' x 2' 10".				
U.	Urinals ...				
C.	Chairs, cane bottomed.	For the use of officers at Rest Barracks and Rest Camps.	2	Per tent or room.	
	Commode ...		2	Per privy.	
			1	Per bath-room.	
			1	Per officer's necessary tent.	
	Cots, newar ...		2	Per tent for married officers.	
			1	Per tent for single officer.	
F.	Filter stands ...		1		
	Forms, without backs, 5 feet.		8	Per Mess.	
R.	Receptacles, filth.		1		
T.	Tables, 10' x 3'. Tables, small, 5' x 2' 10".		2	Per Mess.	
			1	Per tent or room.	
U.	Urinals ...		1	Per urinary.	
W.	Wash-hand stand.		1	Per bath-room.	
				ARTICLES FOR GARRISON INSTRUCTION.	
B.	Black Board and Easel.	School of Garrison Instruction, Musketry Drill.	2	For centres under Chief Instructors.	
			1	For centres under Garrison Instructors.	
	Book-cases, Library pattern.	School of Garrison Instruction.	6	For centres under Chief Instructors.	
			3	For centres under Garrison Instructors.	
	Book-cases with glass doors.	...	2	For centres under Chief Instructors.	
			1	For centres under Garrison Instructors.	
	Bridge, Single Lever.				
	Spars, 16 feet long (7 inches) for ledges.	...	2	For centres under Chief Instructors.	
			2	For centres under Garrison Instructors.	
	Spars, 20 feet long (4 inches at tip) for diagonal braces.	...	4	For centres under Chief Instructors.	
			4	For centres under Garrison Instructors.	

BENGAL SCALE. TABLE No. 147.—(Continued).

List of Furniture, &c., authorized for Regiments and Departments, to be supplied by the Public Works Department.

1	2	3	4	5
Letter.	Articles.	Where required and for what purpose.	Authorized Proportion.	Remarks.
	<i>Bridge, Single Lever—(Contd.)</i>		ARTICLES FOR GARRISON INSTRUCTION.—(Continued).	
B.	Spars, 25 feet long (7 inches at tip) for standards.	...	4 For centres under Chief Instructors.	
	Spars, 12 feet long (immaterial) for transoms.	...	4 Do. Garrison do.	
	Spars, 22 feet long (6 inches at tip) for baulks.	...	2 Do. Chief do.	
	Transoms, 16 ft. long (9 inches throughout.)	...	2 Do. Garrison do.	
	<i>Bridge, Truss, Single, 50 feet span.</i>			
	Planks for roadways.	...	10 Do. Chief do.	
	Spars, 35 feet long, 6 inches at tip.	...	10 Do. Garrison do.	
	Spars, 16 feet long, 9 inches throughout.	...	2 Do. Chief do.	
	Spars, 16 feet long, 7 inches throughout.	...	2 Do. Garrison do.	
	Spars, 18 feet long, 4 inches at tip.	...	5 Do. Chief do.	
	Spars, 12 feet long (immaterial).	...	5 Do. Garrison do.	
	Spars, 30 feet long, 6 inches at tip, for shore transoms.	...	4 Do. Chief do.	
	Spars, 30 feet long, slight, for racking down baulks.	...	4 Do. Garrison do.	

MADRAS SCALE.—(Continued).

List of Furniture, &c., authorized for Regiments and Departments, to be supplied by the Commissariat Department, through the Barrack Department.

1	2	3	4	5	6
Letter.	Articles.	Where required and for what purpose.	Authorized Proportion.	Remarks.	Reasons for deviation from the Bengal Scale.
B.	<i>Bridge, Single Lever—(Contd.)</i>		ARTICLES FOR GARRISON INSTRUCTION.—(Continued.)		
	Spars, 25 feet long (7 inches at tip) for standards.	...	4 For centres under Chief Instructors.		
	Spars, 12 feet long (immaterial) for transoms.	...	4 For centres under Garrison Instructors.		
	Spars, 22 feet long (6 inches at tip) for baulks.	...	2 For centres under Chief Instructors.		
	Transoms, 16 ft. long (9 inches throughout.)	...	2 For centres under Garrison Instructors.		
	<i>Bridge, Truss, Single, 50 feet span.</i>				
	Planks for roadways.	...	10 For centres under Chief Instructors.		
	Spars, 35 feet long, 6 inches at tip.	...	10 For centres under Garrison Instructors.		
	Spars, 16 feet long, 9 inches throughout.	...	2 For centres under Chief Instructors.		
	Spars, 16 feet long, 7 inches throughout.	...	2 For centres under Garrison Instructors.		
	Spars, 18 feet long, 4 inches at tip.	...	4 For centres under Chief Instructors.		
	Spars, 12 feet long (immaterial).	...	4 For centres under Garrison Instructors.		
	Spars, 30 feet long, 6 inches at tip, for shore transoms.	...	5 For centres under Chief Instructors.		
	Spars, 30 feet long, slight, for racking down baulks.	...	5 For centres under Garrison Instructors.		

BENGAL SCALE. TABLE No. 147. —(Continued).

List of Furniture, &c., authorized for Regiments and Departments, to be supplied by the Public Works Department.

1	2	3	4	5
Letter.	Articles.	Where required and for what purpose.	Authorized Proportion.	Remarks.
			ARTICLES FOR GARRISON INSTRUCTION.—(Continued).	
C.	Chairs, cane bottomed.	...	40	For centres under Chief Instructors.
			20	Do. Garrison do.
F.	Forms, without backs, 5 feet.	...	12	Do. Chief do.
			6	Do. Garrison do.
S.	Spars, rounded, 7 inches diameter and 14 feet long.	...	2	Do. Chief do.
			2	Do. Garrison do.
	4½ inches diameter and 12 feet long.	...	6	Do. Chief do.
			6	Do. Garrison do.
	3½ inches diameter and 18 feet long.	...	4	Do. Chief do.
			4	Do. Garrison do.
	3½ inches diameter and 6 feet long.	...	4	Do. Chief do.
			4	Do. Garrison do.
	3 inches diameter and 6 feet long.	...	4	Do. Chief do.
			4	Do. Garrison do.
	2½ inches diameter and 2 feet long.	...	6	Do. Chief do.
			6	Do. Garrison do.
	25 feet long (7 inches at tip) for standards.	...	4	Do. Chief do.
			4	Do. Garrison do.
T.	Tables, 4' 6" x 2' 10" x 2' 7", with two drawers.	...	30	Do. Chief do.
			15	Do. Garrison do.
				In the event of any spars, tackle, implements or tools being rendered totally unserviceable, either through accident or from fair wear and tear, a survey and report must in all cases be held upon them, with a view to their replacement in conformity with the rules in force in the department from which they were supplied.
				The following petty stores will be supplied and repaired by Officers in charge of Circles of Garrison Instruction and charged by them in their contingent bills:— (a).—Materials for making gabions, fascines, abattis, fraises, &c. (b).—Timber for stockade, kaponier, and tambour (for long course only). (c).—Profiling stuff, pickets, pegs, nails, string, and similar petty stores. (d).—Revetting materials, such as sun-dried bricks, hurdles, planks, &c. (e).—Burnt bricks, stone and mortar for the construction of walls when required to illustrate loop-holing, &c., and for demolition by gun-powder. (f).—Repairs to entrenching and other tools and implements. (g).—Powder bags and boxes for fongasses, &c.
				Whenever the number of officers under instruction exceeds the number for whom tables are provided, extra tables will be supplied for the excess number of officers, so that each officer and each instructor may have the use of one.

MADRAS SCALE.—(Continued).

List of Furniture, &c., authorized for Regiments and Departments, to be supplied by the Commissariat Department, through the Barrack Department.

1	2	3	4	5	6
Letter.	Articles.	Where required and for what purpose.	Authorized Proportion.	Remarks.	Reasons for deviation from the Bengal Scale.
			ARTICLES FOR GARRISON INSTRUCTION.—(Contd.).		
C.	Chairs, cane bottomed.	...	40	For centres under Chief Instructors.	In the event of any spars, tackle, implements or tools being rendered totally unserviceable, either through accident or from fair wear and tear, a survey and report must in all cases be held upon them, with a view to their replacement in conformity with the rules in force in the department from which they were supplied.
			20	For centres under Garrison Instructors.	
F.	Forms, without backs, 5 feet.	...	12	For centres under Chief Instructors.	
			6	For centres under Garrison Instructors.	
S.	Spars, rounded, 7 inches diameter and 14 feet long.	...	2	For centres under Chief Instructors.	
			2	For centres under Garrison Instructors.	
	4½ inches diameter and 12 feet long.	...	6	For centres under Chief Instructors.	The following petty store will be supplied and repaired by Officers in charge of Circles of Garrison Instruction, and charged by them in their contingent bills:—
			6	For centres under Garrison Instructors.	(a).—Materials for making gabions, fascines, abattis, fraises, &c.
	3½ inches diameter and 18 inches long.	...	4	For centres under Chief Instructors.	(b).—Timber for stockade, kaponier, and tambour (for long course only).
			4	For centres under Garrison Instructors.	(c).—Profiling stuff, pickets, pegs, nails, string, and similar petty stores.
	3½ inches diameter and 6 feet long.	...	4	For centres under Chief Instructors.	(d).—Revetting materials, such as sun-dried bricks, hurdles, planks, &c.
			4	For centres under Garrison Instructors.	(e).—Burnt bricks, stone and mortar for the construction of walls when required to illustrate loop-holing, &c., and for demolition by gun-powder.
	3 inches diameter and 6 feet long.	...	4	For centres under Chief Instructors.	(f).—Repairs to entrenching and other tools and implements.
			4	For centres under Garrison Instructors.	(g).—Powder bags and boxes for fongasses, &c.
	2½ inches diameter and 2 feet long.	...	6	For centres under Chief Instructors.	
			6	For centres under Garrison Instructors.	
	25 feet long (7 inches tip) for standards.	...	4	For centres under Chief Instructors.	
			4	For centres under Garrison Instructors.	
T.	Tables 4' 6" x 2' 10" x 2' 7" with two drawers.	...	30	For centres under Chief Instructors.	Whenever the number of officers under instruction exceeds the number for whom tables are provided, extra tables will be supplied for the excess number of officers, so that each officer and each instructor may have the use of one.
			15	For centres under Garrison Instructors.	

BENGAL SCALE. TABLE NO. 147.—(Continued).

List of Furniture, &c., authorized for Regiments and Departments, to be supplied by the Public Works Department.

1	2	3	4	5
Letter.	Articles.	Where required and for what purpose.	Authorized Proportion.	Remarks.
			ARTICLES FOR GARRISON INSTRUCTION. (Continued).	
T.	Tables, 5' x 3' 4" x 2' 7", with two drawers.	...	2 For centres under Chief Instructors.	
			1 Do. Garrison do.	
	Tables 10' x 5' x 2' 8".	...	6 Do. Chief do.	
			3 Do. Garrison do.	
	Tanks or casks for water and waste in class-room.	...	2 Do. Chief do.	
			1 Do. Garrison do.	
	Trestles or horses for fascines, ten to a set.	...	1 Set Do. Chief do.	
			1 " Do. Garrison do.	
			RIDING HOUSE FURNITURE.	
C.	Clubs ...	Riding Schools	24 Per Cavalry Regiment.	
L.	Leaping-bars, 24'	Do.	1 Per do. do.	
N.	Necks for practice posts.	Do.	...	
P.	Post for leaping bars.	Do.	2 Per Cavalry Regiment.	
	Practice posts, complete sets of eight pieces each, viz.—	Do.	1 Set Per do. do.	
	Two posts with heads for Cavalry cuts.	...	1 Set	
	Two posts with rings for Cavalry points			
	Two posts with heads for Infantry cuts.			
	Two leather balls for Infantry cuts.			
				The number actually required to be procured by direct regimental agency.

MADRAS SCALE.—(Continued).

List of Furniture, &c., authorized for Regiments and Departments, to be supplied by the Commissariat Department, through the Barrack Department.

1	2	3	4	5	6
Letter.	Articles.	Where required and for what purpose.	Authorized Proportion.	Remarks.	Reasons for deviation from the Bengal Scale.
			ARTICLES FOR GARRISON INSTRUCTION.—(Contd).		
T.	Tables 5' x 3' 4" x 2' 7", with two drawers.	...	2 For centres under Chief Instructors.		
			1 For centres under Garrison Instructors.		
	Tables, 10' x 5' x 2' 8".	...	6 For centres under Chief Instructors.		
			3 For centres under Garrison Instructors.		
	Tanks or casks for water and waste in class-room.	...	2 For centres under Chief Instructors.		
			1 For centres under Garrison Instructors.		
	Trestles or horses for fascines, ten to a set.	...	1 Set For centres under Chief Instructors.		
			1 " For centres under Garrison Instructors.		
			RIDING HOUSE FURNITURE.		
C.	Clubs ...	Riding Schools	24 Per Cavalry Regiment	N.B.—Riding house furniture to be supplied by the Ordnance Department.	
L.	Leaping-bars, 24'	Do.	1 Per do. do.		
N.	Necks for practice posts.	Do.	...		
P.	Post for leaping bars.	Do.	2 Per Cavalry Regiment.		
	Practice posts, complete sets of eight pieces each, viz.—	Do.	1 Set Per do. do.		
	Two posts with heads for Cavalry cuts.	Do.	1 Set		
	Two posts with rings for Cavalry points				
	Two posts with heads for Infantry cuts.				
	Two leather balls for Infantry cuts.				
					The number actually required to be procured by direct regimental agency.

BENGAL SCALE. TABLE NO. 147.—(Continued).

List of Furniture, &c., authorized for Regiments and Departments, to be supplied by the Public Works Department.

1	2	3	4	5
Letter.	Articles.	Where required and for what purpose.	Authorized Proportion.	Remarks.
			FURNITURE FOR SIGNALLERS IN THE TELEGRAPH DEPARTMENT.	
B.	Boxes, kit, with padlocks and keys.	...	1 Per unmarried Signaller. 2 Per married Signaller.	
C.	Chairs, barrack	...	2 Per married Signaller.	
	Cots, iron, trestle.	...	1 Per unmarried Signaller. 2 Per married Signaller.	
	Cupboards	...	1 Per sixteen men or less.	
F.	Forms with backs, 5 feet.	...	... Two running feet of form per unmarried Signaller.	
T.	Tables, small, 5' x 2' 10".	...	1 Per married Signaller.	
	Table ...	Mess ...	... One running foot of mess table per unmarried Signaller.	
			FURNITURE FOR PRAYER ROOMS.	
B.	Book-case, hospital pattern.	...	2 Per regiment of Cavalry, wing of Infantry or Convalescent Depot. 2 Per regiment of Infantry. 3 Per two regiments of Infantry. 1 Additional for every two Batteries of Royal Artillery.	No furniture for prayer-rooms is to be issued until a building for special use as a prayer-room has been made over for the use of the troops. The size of the main room for the different branches of the service are— For two regiments of British Infantry—60' x 24'. For one regiment of British Infantry—40' x 18'. For a regiment of British Cavalry, wing of Infantry, or Convalescent Depot—24' x 18'. Five feet additional in length for every Battery of Artillery.

MADRAS SCALE.—(Continued).

List of Furniture, &c., authorized for Regiments and Departments, to be supplied by the Commissariat Department, through the Barrack Department.

1	2	3	4	5	6
Letter.	Articles.	Where required and for what purpose.	Authorized Proportion.	Remarks.	Reasons for deviation from the Bengal Scale.
			FURNITURE FOR SIGNALLERS IN THE TELEGRAPH DEPT.		
B.	Boxes, kit, with padlocks and keys.	...	1 Per unmarried Signaller ... 2 Per married Signaller ...	{ To be supplied by the Ordnance Department.	
C.	Chairs, barrack	...	2 Per married Signaller.		
	Cots, iron, trestle	...	1 Per unmarried Signaller. 2 Per married Signaller.		
	Cupboards	...	1 Per sixteen men or less.		
F.	Forms with backs, 5 feet.	...	... Two running feet of form per unmarried Signaller.		
T.	Tables, small, 5' x 2' 10".	...	1 Per married Signaller.		
	Table ...	Mess ...	... One running foot of mess table per unmarried Signaller.		
			FURNITURE FOR PRAYER ROOMS.		
B.	Book case, hospital pattern.	...	2 Per regiment of Cavalry, wing of Infantry, or Convalescent Depot. 2 Per regiment of Infantry. 3 Per two regiments of Infantry. 1 Additional for every two Batteries of Royal Artillery.	No furniture for prayer-rooms is to be issued until a building for special use as a prayer room has been made over for the use of the troops. The size of the main room for the different branches of the service are— For two regiments of British Infantry—60' x 24'. For one regiment of British Infantry—40' x 18'. For a regiment of British Cavalry, Wing of Infantry or Convalescent Depot—24' x 18'. Five feet additional in length for every Battery of Artillery.	

BENGAL SCALE. TABLE No. 147.—(Continued).

List of Furniture, &c., authorized for Regiments and Departments, to be supplied by the Public Works Department.

1	2	3	4	5
Letter.	Articles.	Where required and for what purpose.	Authorized Proportion.	Remarks.
			FURNITURE FOR PRAYER ROOMS.— (Continued.)	
C.	Chairs, cane-bottomed.	...	4 Per regiment of Cavalry, wing of Infantry, or Convalescent Depôt. 6 Per regiment of Infantry. 9 Per two regiments of Infantry. 1 Additional for each battery of Royal Artillery.	
F.	Forms, with backs, 6 feet	...	8 Per regiment of Cavalry, wing of Infantry, or Hill Depôt. 12 Per regiment of Infantry. 18 Per two regiments of Infantry. 2 Additional for each battery of Royal Artillery.	
M.	Mats or other covering for the floor.	...	1 Per Prayer-room.	
T.	Tables, 6' x 3' 6"	...	4 Per regiment of Cavalry, wing of Infantry, or Convalescent Depôt. 5 Per regiment of Infantry. 8 Per two regiments of Infantry. 1 Additional for each battery of Royal Artillery.	
			FURNITURE FOR OFFICES OF DEPUTY ASSISTANT QUARTERMASTER-GENERAL.	
A.	Almirah	For maps	1	
B.	Book-case, hospital pattern.	General Orders, files and books.	1	
	Boxes, kit	For forms, &c.	1	
C.	Chairs, barrack	For writers	3	
	Chairs, cane-bottomed.	...	5 Per Officer.	
F.	Forms without backs, 5 feet.	For orderlies, peons, &c.	1	
P.	Pigeon-holes	...	1 Set	Per Officer.
T.	Table, plan-drawing.	For plan-drawing.	1	
	Table with drawers.	...	1	Per Officer
	Table 10' x 3' ...	For writers	1	For the Allahabad Division, where an extra Officer is allowed during the trooping season, an additional table with drawers is sanctioned.

MADRAS SCALE.—(Continued).

List of Furniture, &c., authorized for Regiments and Departments, to be supplied by the Commissariat Department, through the Barrack Department.

1	2	3	4	5	6
Letter.	Articles.	Where required and for what purpose.	Authorized Proportion.	Remarks.	Reasons for deviation from the Bengal Scale.
			FURNITURE FOR PRAYER ROOMS.—(Continued).		
C.	Chairs, cane-bottomed.	...	4 Per regiment of Cavalry, wing of Infantry, or Convalescent Depôt. 6 Per regiment of Infantry. 9 Per two regiments of Infantry. 1 Additional for each battery of Royal Artillery.		
F.	Forms, with backs, 6 feet.	...	8 Per regiment of Cavalry, wing of Infantry, or Hill Depôt. 12 Per regiment of Infantry. 18 Per two regiments of Infantry. 2 Additional for each battery of Royal Artillery.		
M.	Mats or other covering for the floor.	...	1 Per Prayer-room.		
T.	Tables, 6' x 3' 6"	...	4 Per regiment of Cavalry, wing of Infantry, or Convalescent Depôt. 5 Per regiment of Infantry. 8 Per two regiments of Infantry. 1 Additional for each battery of Royal Artillery.		
			FURNITURE FOR OFFICES OF ASST. AND DY. ASST. QUARTERMASTER-GENERAL.		
A.	Almirah	For maps	1		
B.	Book case, hospital pattern.	General Orders, files and books	1		
	Boxes, kit	For forms, &c.	1		
C.	Chairs, barrack	For writers	3		
	Chairs, cane-bottomed.	...	5 Per Officer.		
F.	Forms without backs, 5 feet.	For orderlies, peons, &c.	1		
P.	Pigeon-holes	...	1 Set	Per Officer.	
T.	Table, plan-drawing.	For plan-drawing.	1		
	Table with drawers.	...	1	Per Officer	
	Table 10' x 3'	For writers	1		

To be supplied by the Ordnance Department

BENGAL SCALE. TABLE No. 147.—(Continued).

List of Furniture, &c., authorized for Regiments and Departments, to be supplied by the Public Works Department.

1	2	3	4	5
Letter.	Articles.	Where required and for what purpose.	Authorized Proportion.	Remarks.
			FURNITURE FOR SUB-INSPECTORS OF ARMY SCHOOLS AT THE THREE PRESIDENCIES.	
A.	Almirah, large	For Office ...	1	Per Sub-Inspector.
B.	Book-case, hospital pattern.	Do. ...	1	Do.
C.	Chair, cane-bottomed.	Do. ...	1	Do.
T.	Table, with drawers.	Do. ...	1	Do.
			FURNITURE FOR WORKSHOPS.	
B.	Bench ...	Blacksmiths ...	...	According to actual requirements.
	Do. ...	Bookbinders ...	...	
	Do. ...	Carpenters ...	...	
	Do. ...	Shoemakers ...	...	
	Do. ...	Tailors ...	...	
	Do. ...	Tinsmiths ...	...	
	Do. ...	Turners ...	...	
	Do. ...	Watchmakers ...	...	
	Do. with vices affixed.	For Wheelers' workshops.	1	
			Per Battery ...	
				Bench to be of pattern shown in standard plans for carpenter's bench with vice attached.
C.	Composing frame	Printers ...	...	According to actual requirements.
I.	Imposing table	Do. ...	...	
T.	Table ...	Blacksmiths ...	...	
	Do. ...	Brushmakers ...	...	
	Do. ...	Collarmakers ...	...	
	Do. ...	Painters ...	...	
	Do. ...	Printers ...	...	
	Do. ...	Tailors ...	...	
			FURNITURE FOR CHURCHES.	
			Roman Catholic Churches.	
A.	Altar lamp ...	To be supplied by Military Department.	1	The Chaplains are to make their own arrangements for these articles, receiving the sums specified against each. These sums will be recovered from the Controller of Military Accounts on bill accompanied with vouchers as specified in para. 15 of this order.
	Altar candlesticks.		6	
	Altar canons (one set of three.)		1 Set	
	Altar vestments of silk (5 sets of 5 colors).		5 Sets	
	Altar linen, comprising Albs, Altar covers, Communion cloth, &c.		1 Set	
C.	Chalice...		1	

MADRAS SCALE.—(Continued).

List of Furniture, &c., authorized for Regiments and Departments, to be supplied by the Commissariat Department, through the Barrack Department.

1	2	3	4	5	6
Letter.	Articles.	Where required and for what purpose.	Authorized Proportion.	Remarks.	Reasons for deviation from the Bengal Scale.
			FURNITURE FOR SUB-INSPECTORS OF ARMY SCHOOLS AT THE THREE PRESIDENCIES.		
A.	Almirah, large	For Office ...	1	Per Sub-Inspector.	
B.	Book-case, hospital pattern.	Do. ...	1	Do.	
C.	Chair, cane-bottomed.	Do. ...	1	Do.	
T.	Table, with drawers.	Do. ...	1	Do.	
			FURNITURE FOR WORKSHOPS.		
B.	Bench ...	Blacksmiths ...	...	According to actual requirements.	Bench to be of pattern shown in standard plans for carpenter's bench with vice attached.
	Do. ...	Bookbinders ...	...		
	Do. ...	Carpenters ...	...		
	Do. ...	Shoemakers ...	...		
	Do. ...	Tailors ...	...		
	Do. ...	Tinsmiths ...	...		
	Do. ...	Turners ...	...		
	Do. ...	Watchmakers ...	...		
	Do. with vices affixed.	For Wheelers' workshops.	1		
			Per Battery...		
C.	Composing frame	Printers ...	...	According to actual requirements.	
I.	Imposing table	Do. ...	...		
T.	Table ...	Blacksmiths ...	...		
	Do. ...	Brushmakers ...	...		
	Do. ...	Collarmakers ...	...		
	Do. ...	Painters ...	...		
	Do. ...	Printers ...	...		
	Do. ...	Tailors ...	...		
			FURNITURE FOR CHURCHES.		
			Roman Catholic Churches.		
A.	Altar lamp ...	To be supplied by Military Department.	1	The Chaplains are to make their own arrangements for these articles, receiving the sums specified against each. These sums will be recovered from the Controller of Military Accounts on bill accompanied with vouchers.	
	Altar candlesticks.		6		
	Altar canons (one set of three.)		1 Set		
	Altar vestments of silk (5 sets of 5 colors).		5 Sets		
	Altar linen, comprising Albs, Altar covers, Communion cloth, &c.		1 Set		
C.	Chalice...		1		

BENGAL SCALE. TABLE NO. 147.—(Continued).

List of Furniture, &c., authorized for Regiments and Departments, to be supplied by the Public Works Department.

1	2	3	4	5
Letter.	Articles.	Where required and for what purpose.	Authorized Proportion.	Remarks.
			FURNITURE FOR CHURCHES—Contd. <i>Roman Catholic Churches.—(Contd.)</i>	
C.	Copes of white silk.	To be supplied by Military Department.	1	The Chaplains are to make their own arrangements for these articles, receiving the sums specified against each. These sums will be recovered from the Controller of Military Accounts on bill accompanied with vouchers as specified in para. 15 of this order.
	Copes of black silk.		1	
	Crucifix ...		1	
	Cruets ...		2	
	Plate ...		1	
H.	Humeral for Benediction.		1	
M.	Missal ...		1	
	Monstrance ...		1	
P.	Pyx with silver cup, inside gilt.		1	
T.	Tabernacle, inside covered with silk.		1	
A.	Altar chairs for officiants and assistants.	To be supplied by the Public Works Department.	3	A second table may be supplied to churches intended to accommodate more than 500 people.
	Altar table ...		1	
	Almirah for altar vestments, at least 4 ft. long by 2 feet 5 inches broad.		1	
	Apparatus for lighting.		...	
B.	Bell, including fixing, &c., &c.		1	
	Book-stand ...		1	
C.	Chairs for the vestry.		3	
	Communion rail		...	
F.	Font and cover		1	
P.	Pulpit ...		1	
S.	Seats and kneeling accommodation for the congregation.		...	
T.	Table for the vestry.		1	
	Thermantidotes		...	When necessary for special reasons, such as defective ventilation.

MADRAS SCALE.—(Continued).

List of Furniture, &c., authorized for Regiments and Departments, to be supplied by the Commissariat Department, through the Barrack Department.

1	2	3	4	5	6
Letter.	Articles.	Where required and for what purpose.	Authorized Proportion.	Remarks.	Reasons for deviation from the Bengal Scale.
			FURNITURE FOR CHURCHES.—(Continued.) <i>Roman Catholic Churches.—(Continued.)</i>		
C.	Copes of white silk.	To be supplied by Military Department.	1	The Chaplains are to make their own arrangements for these articles receiving the sums specified against each. These sums will be recovered from the Controller of Military Accounts on bill accompanied with vouchers.	
	Copes of black silk.		1		
	Crucifix ...		1		
	Cruets ...		2		
	Plate ...		1		
H.	Humeral for Benediction.		1		
M.	Missal ...		1		
	Monstrance ...		1		
P.	Pyx with silver cup, inside gilt.		1		
T.	Tabernacle, inside covered with silk.		1		
A.	Altar chairs for officiants and assistant.	To be supplied by the Commissariat Department.	3	A second table may be supplied to churches intended to accommodate more than 500 people.	
	Altar table ...		1		
	Almirah for altar vestments, at least 4 feet long by 2 feet 5 inches broad.		1		
	Apparatus for lighting.		...		
B.	Bell, including fixing, &c., &c.		1		
	Book stand ...		1		
C.	Chairs for the vestry.		3		
	Communion rail		...		
F.	Font and cover		1		
P.	Pulpit ...		1		
S.	Seats and kneeling accommodation for the congregation.		...		
T.	Table for the vestry.		1		
	Thermantidotes		...	When necessary for special reasons, such as defective ventilation.	

BENGAL SCALE. TABLE No. 147.—(Continued).

List of Furniture, &c., authorized for Regiments and Departments, to be supplied by the Public Works Department.

1	2	3	4	5
Letter.	Articles.	Where required and for what purpose.	Authorized Proportion.	Remarks.
			FURNITURE FOR CHURCHES.— (Continued).	
			Protestant Churches.	
A.	Altar cover of red embroidered cloth.	To be supplied by the Civil Department.	...	These articles of furniture, to be supplied by the Civil Department, are to be obtained by the Chaplains under the rules in force, and their value recovered under audit of the Accountant - General of the Province.
B.	Bibles for clergymen.		...	
C.	Communion plate.		...	
L.	Linen cloth and napkins for Communion service.		...	
P.	Prayer books for clergymen.		...	
A.	Almirah ...	To be supplied by the Public Works Department.	1	Price 45
	Altar chairs ...		2	Do. 24
	Apparatus for lighting.		...	According to requirements.
B.	Bell, including fixing, &c., &c.		1	Price 300
C.	Chairs for vestry		3	
	Communion table and rails.		1	
F.	Font and cover		1	Do. 60
L.	Lectern ...		1	
P.	Pulpit ...		1	
	Punkahs, complete.		...	According to requirements.
R.	Reading desk ...		1	
S.	Safe for the custody of Communion plate.		1	
	Seat with kneeling stools for congregation.		...	Do. do.
	Seat with kneeling stool for clergymen.		...	Do. do.
T.	Tables for vestry		1	Price 12
	Thermantidotes		...	According to requirements ...
				When necessary for special reasons, such as defective ventilation.

MADES SCALE.—(Continued).

List of Furniture, &c., authorized for Regiments and Departments, to be supplied by the Commissariat Department, through the Barrack Department.

1	2	3	4	5	6
Letter.	Articles.	Where required and for what purpose.	Authorized Proportion.	Remarks.	Reasons for deviation from the Bengal Scale.
			FURNITURE FOR CHURCHES.— (Continued.)		
			Protestant Churches.		
A.	Altar cover of red embroidered cloth.	To be supplied by the Civil Department.	...	...	These articles of furniture, to be supplied by the Civil Department, are to be obtained by the Chaplains under the rules in force, and their value recovered under audit of the Accountant-General of the Province.
B.	Bibles for clergymen.		...	...	
C.	Communion plate.		...	...	
L.	Linen cloth and napkins for Communion service.		...	...	
P.	Prayer books for clergymen.		...	...	
A.	Almirah ...		1	Price 45	N. B.—Fixtures to be provided by the Public Works Department, and furniture by the Commissariat Department.
	Altar chairs ...		2	Do. 24	
	Apparatus for lighting.		...	According to requirements.	
B.	Bell, including fixing, &c., &c.		1	Price 300	
C.	Chairs for vestry		3		
	Communion table and rails		1		
F.	Font and cover		1	Do. 60	
L.	Lectern ...		1		
P.	Pulpit ...		1		
	Punkahs, complete.		...	According to requirements.	
R.	Reading desk ...		1		
S.	Safe for the custody of Communion plate.		1		
	Seat with kneeling stools for congregation.		...	Do. do.	
	Seat with kneeling stool for clergymen.		...	Do. do.	
T.	Tables for vestry		1	Price 12	When necessary for special reasons, such as defective ventilation.
	Thermantidotes		...	According to requirements	

BENGAL SCALE. TABLE NO. 147.—(Continued).

List of Articles of Fixed and Moveable Apparatus for Gymnasias.

1	2	3				4				5
Letter.	Articles.	1st CLASS GYMNASIUM.				REGIMENTAL GYMNASIUM.				Remarks.
		Fixed Apparatus.		Moveable Apparatus.		Fixed Apparatus.		Moveable Apparatus.		
		No. of Plate in Standard Plan.	No. to be issued.	No. of Plate in Standard Plan.	No. to be issued.	No. of Plate in Standard Plan.	No. to be issued.	No. of Plate in Standard Plan.	No. to be issued.	
B.	Bars, horizontal	...	1	XI	2	...	...	V	1	Should be used more as a support to the building than as a horizontal bar.
	Bars, horizontal, iron	VI	...	...	...	...	...	...	...	
	Bars, parallel	...	...	XII	2	...	...	IV	1	The bench to be 4 feet long, 3 feet 9 inches high and 1 foot 9 inches wide, of stout wood with very stout legs to give it weight and make it firm for working on.
	Beam, horizontal	VII	1	...	...	...	...	...	...	
	Beam, great cross	III	1	...	...	II	1	...	...	
	Bench, 4' long, 3' 9" high, and 1' 9" wide.	...	...	...	1	...	...	...	1	
	Fittings for Great Cross Beam.									It is not necessary that this should be attached to the great cross beam.
	Ladder, plank	...	...	...	...	...	...	VIII	1	
	Do. rope	...	...	III	1	...	...	II	1	
	Poles (pairs)	...	...	III	2	...	...	II	1	
	Rings (do.)	...	...	III	1	...	...	II	1	
	Rope, vertical	...	...	...	...	...	...	IX	2	
	Trapeze	...	...	III	1	...	...	II	1	
	Filters, Macnamara, with 1 stand, 1 screw key, iron, 1 rammer, wooden, 2 sieves, cane, and 1" cloth bandage according to requirements.	...	...	...	2	...	...	...	...	Two per each of the 1st class gymnasias at Lucknow and Umballa.
F.	Flying Trapeze, set of 3	...	...	XIII	1	...	...	...	...	A Flying Trapeze consists of three trapeze bars and ropes.
	Do. Step Platform for Fort or prepared wall	II	1	XIII	1	...	...	...	...	
	Fittings for Fort.									N.B.—Articles of Ordnance supply for gymnasium are to be supplied by that Department, others by the Commissariat Department.
	Ladder, inclined	...	...	XV	1	...	...	...	...	
	Do. rope	...	...	XIV	1	...	...	...	...	
	Plank, inclined	...	...	XIV	1	...	...	...	...	
	Poles, standing (pair)	...	...	XIV	2	...	...	...	...	
	Vertical ropes	...	...	XV	2	...	...	...	...	
L.	Ladder, bridge	I	1	...	...	I	1	...	...	N.B.—Articles of Ordnance supply for gymnasium are to be supplied by that Department, others by the Commissariat Department.
	Do. elastic	VIII	1	...	...	...	...	...	...	
	Do. plank	...	...	XVIII	2	...	...	...	...	
O.	Octagon	IV	1	...	...	...	...	...	...	N.B.—Articles of Ordnance supply for gymnasium are to be supplied by that Department, others by the Commissariat Department.
R.	Rings (rows of 8)	...	...	XVII	1	...	...	...	...	
	Rings (pairs)	...	...	X	2	...	...	...	...	
	Rope, vortical	...	...	XIII	6	...	...	...	...	
S.	Shelf	V	1	...	...	III	1	...	...	N.B.—Articles of Ordnance supply for gymnasium are to be supplied by that Department, others by the Commissariat Department.
V.	Vaulting Horse	...	...	IX	2	...	...	VI	1	

- NOTE.—I. Furniture is not sanctioned for canteens at the expense of the State.
- II. Furniture is supplied to churches and chapels through the Public Works, Military, and Civil Departments.
- III. Furniture is not to be painted oftener than once in four years at the expense of the State.
- IV. Staff Sergeants with Native troops, or in departmental employ, who are furnished with Government quarters, are allowed furniture to the same extent as is sanctioned for Staff Sergeants attached to British regiments.
- V. Provost Sergeants and their Assistants will be furnished with cots, boxes, chairs and tables according to Regulations.
- VI. The surplus stock to be maintained is on no account to exceed 10 per cent. on the number in use.
- VII. Tool chests with Batteries of Horse and Field Artillery are to be considered as furniture, and are to be left at stations when Batteries vacate their lines.
- VIII. Supply of heavy school materials should be conducted under the supervision of the Superintendent of Army Schools.
- IX. Convalescent Depôts are of two classes:—
First class depôts are intended for two hundred (200) men or upwards; these are Kasauli, Landour, Murree, Dalhousie, Nynce Tal, and Darjeeling.
Second class depôts are those intended for less than 200 men.
- X. When Skittle Alleys are taken over by the Public Works Department from a regiment leaving a station, the responsible officer should see that the pins and balls are handed over by the departing regiment in good order, or a charge made against the regiment for repairs, &c.

MADRAS SCALE.—(Continued).

List of Articles of Fixed and Moveable Apparatus for Gymnasias, to be supplied by the Commissariat Department.

1	2	3.				4				5	6
Letter.	Articles.	1st CLASS GYMNASIUM.				REGIMENTAL GYMNASIUM.				Remarks.	Reasons for deviation from the Bengal Scale.
		Fixed Apparatus.		Moveable Apparatus.		Fixed Apparatus.		Moveable Apparatus.			
		No of Plate in Standard Plan.	No. to be issued.	No. of Plate in Standard Plan.	No. to be issued.	No. of Plate in Standard Plan.	No. to be issued.	No. of Plate in Standard Plan.	No. to be issued.		
B.	Bars, horizontal... ..	...	1	XI	2	...	...	V	1	Should be used more as a support to the building than as a horizontal bar.	
	Bars, horizontal, iron	VI	...	...	...	...	...	...	...		
	Bars, parallel	...	...	XII	2	...	...	IV	1	The bench to be 4 feet long, 3 feet 9 inches high, and 1 foot 9 inches wide, of stout wood with very stout legs to give it weight and make it firm for working on.	
	Beam, horizontal	VII	1	...	...	...	...	...	...		
	Beam, great cross	III	1	...	...	II	1	...	...		
	Bench, 4' long, 3'9" high, and 1' 9" wide.	...	...	...	1	...	...	...	1		
	Fittings for Great Cross Beam.									It is not necessary that this should be attached to the great cross beam.	
	{ Ladder, plank... ..	...	...	...	...	...	...	VIII	1		
	{ Do. rope	...	...	III	1	...	...	II	1		
	{ Poles (pairs)	...	...	III	2	...	...	II	1		
	{ Rope, vertical	...	...	...	...	...	...	IX	2		
	{ Trapeze	...	...	III	1	...	...	II	1		
F.	Flying Trapeze, set of 3	...	...	XIII	1	...	...	...	...	A Flying Trapeze consists of three trapeze bars and ropes.	
	Do. Step Platform for—	...	...	XIII	1	...	...	...	...		
	Fort or prepared wall	II	1	...	...	...	...	...	...	N.B.—Articles of Ordnance supply for gymnasium are to be supplied by that Department, others by the Commissariat Department.	
	{ Ladder, inclined	...	...	XV	1	...	...	...	...		
	{ Do. rope	...	...	XIV	1	...	...	...	...		
	{ Plank, inclined	...	...	XIV	1	...	...	...	...		
	{ Poles, standing (pair)	...	...	XIV	2	...	...	...	...		
	{ Vertical ropes	...	...	XV	2	...	...	...	...		
L.	Ladder, bridge	I	1	...	...	I	1	...	...		
	Do. elastic	VIII	1	...	...	...	...	...	...		
	Do. plank	...	...	XVIII	2	...	...	...	...		
O.	Octagon	IV	1	...	...	...	...	...	...		
R.	Rings (rows of 8)	...	...	XVII	1	...	...	...	...		
	Rings (pairs)	...	...	X	2	...	...	...	...		
	Rope, vertical	...	...	XIII	6	...	...	...	...		
S.	Shelf	V	1	...	...	III	1	...	...		
V.	Vaulting horse	...	...	IX	2	...	...	VI	1		

- NOTE.—I. Furniture is not sanctioned for canteens at the expense of the State.
- II. Furniture is supplied to churches and chapels through the Commissariat Department and Civil Departments.
- III. Furniture is not to be painted oftener than once in four years at the expense of the State.
- IV. Staff Sergeants with Native troops, or in departmental employ, who are furnished with Government quarters, are allowed furniture to the same extent as is sanctioned for Staff Sergeants attached to British regiments.
- V. Provost Sergeants and their Assistants will be furnished with cots, boxes, chairs and tables according to Regulations.
- VI. The surplus stock to be maintained is on no account to exceed 10 per cent. on the number in use.
- VII. Tool chests with Batteries of Horse and Field Artillery are to be considered as furniture, and are to be left at stations when Batteries vacate their lines.
- VIII. Supply of heavy school materials should be conducted under the supervision of the Superintendent of Army Schools.
- IX. Convalescent Depôts are of two classes:—
First class depôts are intended for two hundred (200) men or upwards; these are, Wellington and Poonamallee.
Second class depôts are those intended for less than 200 men, as Ramandroog.
- X. When Skittle Alleys are taken over by the Public Works Department from a regiment leaving a station, the responsible officer should see that the pins and balls are handed over by the regiment departing in good order, or a charge made against the regiment for repairs, &c.

BENGAL SCALE. TABLE No. 143.—(Continued).

List of Hospital Furniture authorized to be supplied by the Public Works Department.

1	2	3	4	5	6	7	8	9					
Letter.	Articles.	HOSPITALS FOR EUROPEANS.										Remarks.	
		Proportion.	To Number of Sick.	Scale.									Number of each Article to be always kept complete and serviceable in Hospital.
				Battery of Horse or Field Artillery.	Battery of Mountain, Garrison or Heavy Artillery, or Company of Royal Engineers.	Regiment of Cavalry.				Regiment of Infantry.			
						Male 18.	Female 4.	Male 10.	Female 2.		Male 50.			Female 12.	Male 92.	Female 16.
A.	Almirahs, large	...	...	2	2	4	5	For medicines and stores.					
B.	Baths, children, long and flat	...	...	1	1	2	2	For washing infants.					
	Do. foot	...	1	12	1	4	7						
	Do. hip	...	1	25	1	3	4						
	Do. hip	...	...	...	1	1	1	For troops on the line of march.					
	Do. shower	...	...	...	One for each regimental hospital building.								
	Do. slipper	...	1	25	1	1	2	3					
	Beds, fracture	...	...	...	1	1	3	2					
	Bedsteads, iron (Broome's pattern) length 6 feet 6 inches, breadth 3 feet 3 inches, height of frame 1 foot 9 inches, height to top of head and foot rails 2 feet 3 inches.	1	1	22	12	62	108						
	Bier	...	...	...	One for each regimental hospital								
	Bin for foul linen	...	...	...	One for each Purveyor's store.								
	Book-case (Library pattern)	...	...	...	One for each regimental hospital								
	Boxes, dry earth	...	...	...	One for each urinary, and one for each seat in a latrine.								
	Box, ice	...	...	...	One for each regimental hospital.								
	Buckets, mortuary	...	...	...	One for each mortuary.								
C.	Chairs, cane-bottomed	...	...	...	As required								
	Do. do.	...	...	...	3	3	8	8	For Attendants' room.				
	Do. do.	...	...	...	2	2	3	3	For Office.				
	Do. close stool patent	...	...	...	Two for each large and one for each small ward.								
	Do. do. small	...	...	...	1	1	1	1	For children.				
	Do. do. (commode)	...	...	...	One for each large ward.								
	Do. do. (do.)	...	...	...	1	1	2	2	For troops on the line of march.				
	Do. easy do.	...	1	5	4	3	13	21					
	Do. folding or camp	...	...	...	2	2	4	4	For troops on the line of march.				
	Do. padded, arm, with foot rests	1	12	2	2	5	9	For special cases too ill to use common chairs.					
	Charpoys	...	...	...	15	10	30	15	For the use of Native followers.				
	Chopping block, small	...	...	...	or one per patient for whom accommodation is authorized or exists.								
	Cupboards, kitchen	...	1	50	1	1	1	2	To be allowed when there are no fixed cupboards in walls.				
D.	Doolie, burial (painted and hung with black).	...	...	...	One for each regimental hospital								
	Dresser, with shelves, drawers, locks and keys.	...	...	...	One for each cook-house.								

MADRAS SCALE.—(Continued).

List of Hospital Furniture authorized to be supplied by the Commissariat Department.

1	2	3	4	5	6	7	8	9	10				
Letter.	Articles.	HOSPITALS FOR EUROPEANS.										Remarks.	Reasons for deviation from the Bengal Scale.
		Proportion.	To Number of Sick.	Scale.									
				Number of each Article to be always kept complete and serviceable in Hospital.									
				Battery of Horse or Field Artillery.		Battery of Mountain, Garrison or Heavy Artillery, or Company of Royal Engineers.		Regiment of Cavalry.		Regiment of Infantry.			
		Male 18.	Female 4.	Male 10.	Female 2.	Male 50.	Female 12.	Male 92.	Female 16.				
A.	Almirah, large...	...	...	2		2		4		5	For medicines and stores.		
B.	Baths, children, long and flat	...	...	1	12	1	1	2	2	2	For washing infants.		
	Do. foot	...	1	12	2	1	1	4	4	7			
	Do. hip	...	1	25	1	1	1	3	3	4			
	Do. hip	...	...	...	1	1	1	1	1	1	For troops on the line of march.		
	Do. shower	...	...	...	...	...	...	...	...	...			
	Do. slipper	...	1	25	1	1	1	2	2	3			
	Beds, fracture	...	...	...	1	1	1	3	3	2			
	Bedsteads, iron (Broome's pattern) length 6 feet 6 inches, breadth 3 feet 3 inches, height of frame 1 foot 9 inches, height to top of head and foot rails 2 feet 3 inches.	1	1	22	12	12	12	62	108	108			
	Bier	...	...	...	...	...	...	...	...	...	For stations on the plains only.		
	Bin, for foul linen	...	...	...	...	...	...	...	...	...			
	Book-case (Library pattern)	...	...	...	...	...	...	...	...	...	To be kept in the Surgery.		
	Boxes, dry earth	...	...	...	...	...	...	...	...	...			
	Box, ice	...	...	...	...	...	...	...	...	...			
	Buckets, mortuary	...	...	...	...	...	...	...	...	...			
C.	Chairs, cane-bottomed	...	...	...	...	...	...	...	...	...	For Attendants' room.		
	Do. do.	...	...	...	...	...	...	3	3	8	8	For Office.	
	Do. do.	...	...	...	...	...	...	2	2	3	3	For Surgery.	
	Do. close-stool, patent	...	...	...	...	...	...	Two for each large, and one for each small ward.					
	Do. do. small	...	...	...	...	...	...	1	1	1	1	For children.	
	Do. do. (commode)	...	...	...	...	...	...	One for each large ward.					
	Do. do. (do.)	...	...	...	...	...	...	1	1	2	2	For troops on the line of march.	
	Do. easy do.	...	1	5	4	3	13	21					
	Do. folding or camp	...	...	...	2	2	4	4			For troops on the line of march.		
	Do. padded, arm, with foot rests	1	12	2	2	2	5	9			For special cases too ill to use common chairs.		
	Charpoys	...	...	...	15	10	30	15			For the use of Native followers.		
	Chopping-block, small	...	...	...	...	...	...	or one per patient for whom accommodation is authorized or exists.					
	Cupboards, kitchen	...	1	50	1	1	1	2			To be allowed when there are no fixed cupboards in walls.		
D.	Doolie, burial (painted and hung with black).	...	...	...	...	...	...	One for each regimental hospital	...		For stations in the hills only.		
	Dresser, with shelves, drawers, locks and keys.	...	...	...	...	...	...	One for each cook-house.					

BENGAL SCALE. TABLE No. 148.—(Continued).

List of Hospital Furniture, &c., authorized to be issued by the Public Works Department.

1	2	3	4	5	6	7	8	9					
Letter.	Articles.	HOSPITALS FOR EUROPEANS.						Remarks.					
		Scale.	Number of each Article to be always kept complete and serviceable in Hospital.										
			Proportion.	To Number of Sick.	Battery of Horse or Field Artillery.		Battery of Mountain, Garrison or Heavy Artillery, or Company of Royal Engineers.		Regiment of Cavalry.	Regiment of Infantry.			
					Male 18.	Female 4.	Male 10.		Female 2.	Male 50.	Female 12.	Male 92.	Female 16.
F.	Filters, Macnamara's, with the following component parts :— Stand ... 1 Screw-key, iron ... 1 Rammers, wooden ... 1 Sieves, cane ... 1 Bandage cloth, 1 inch wide, according to requirements. Filter water-stands ... Forms, with backs, 5 feet ... Frame, diet scale ... Do. diet sheet ... G. Gratings, 5 feet ... Do. 2' x 2' ... H. Head rests (double incline) ... I. Inventory, or Notice Boards ... J. Jhamps, with two poles ... K. Kitchen range, with boiler for water, Sylvester or some similar oven, on extended scale, to do fish, puddings, mutton chops, and roast meats. L. Lamp-rods ... Lamp-stools ... M. Mallets, dry-earth ... Meat Safes ... P. Padlocks and keys, iron (English) ... Pans, privy, iron ... Punkahs ... Punkah connecting bars ...	Per Filter. <											

MADRAS SCALE.—(Continued).

List of Hospital Furniture authorized to be supplied by the Commissariat Department.

1	2	3	4	5	6	7	8	9	10					
Letter.	Articles.	HOSPITALS FOR EUROPEANS.						Remarks.	Reasons for deviation from the Bengal Scale.					
		Scale.	Number of each Article to be always kept complete and serviceable in Hospital.											
			Proportion.	To Number of Sick.	Battery of Horse or Field Artillery.		Battery of Mountain, Garrison or Heavy Artillery, or Company of Royal Engineers.			Regiment of Cavalry.	Regiment of Infantry.			
					Male 18.	Female 4.	Male 10.			Female 2.	Male 50.	Female 12.	Male 92.	Female 16.
F.	Filters, Macnamara's or other, with the following component parts :— Stand ... 1 Screw-key, iron ... 1 Rammers, wooden ... 1 Sieves, cane ... 1 Bandage cloth, 1 inch wide, according to requirements. Filter water-stands ... Forms, with backs, 5 feet ... Frame, diet scale ... Do. diet sheet ... G. Gratings, 5 feet ... Do. 2'x2' ... H. Head rests (double incline) ... I. Inventory, or Notice Boards ... J. Jhamps, with two poles ... K. Kitchen-range, with boiler for water, Sylvester or some similar oven, on extended scale, to do fish, puddings, mutton chops and roast meats. L. Lamp-rods ... Lamp-stools ... M. Mallets, dry-earth ... Meat Safes ... P. Padlocks and keys, iron (English) ... Pans, privy, iron ... Punkahs ... Punkah connecting bars ...	Per Filter. <												

List of Hospital Furniture, &c, authorized to be supplied by the Public Works Department.

List of Hospital Furniture, &c., authorized for issue.									
1	2	3	4	5	6	7	8	9	
Letter.	Articles.	HOSPITALS FOR EUROPEANS.						Remarks.	
		Scale.	Number of each Article to be always kept complete and serviceable in Hospital.						
			Proportion.	To Number of Sick.	Battery of Horse or Field Artillery.	Battery of Mountain, Garrison or Heavy Artillery, or Company of Royal Engineers.	Regiment of Cavalry.		Regiment of Infantry.
					Male 18. Female 4.	Male 10. Female 2.	Male 50. Female 12.		Male 92. Female 16.
P.	Punkah fringes, 18 inches deep		1						The fringes should be washed once during the season at the expense of the State, after they have been put up clean.
	Punkah-pulling ropes or canes								According to requirements.
	Punkah-suspending rods or ropes								Do. do.
R.	Rack, plate		1						One for each regimental hospital building.
	Do. towel		1						One for each regimental hospital
	Do. do.								Two per latrine...
	Receptacles, filth, large								Two per urinary
	Do. do. do.								Three per latrine
	Do. do. small								Two per urinary
	Do. do. do.								
	Receptacles, large (painted white)								Two for each cook-house
	Do. small (painted white)								Three for each cook-house
S.	Scoops, dry-earth								One per urinary and for each dry-earth box in latrines.
	Scrapers, dry-earth								Two per latrine with more than ten seats, and one per latrine with ten seats or less.
	Screens, moveable		1	50					1. 1. 2. 2
	Do. for archways between wards								One for each archway.
	Sieves, dry-earth								Two per latrine with more than ten seats, and one per latrine with ten seats or less.
	Stands, surahi, to hold six surahis		1	12					1. 1. 6. 9
	Stoves or braziers, with flues or pipes leading to outer air.								Two for each large and one for each small ward.
T.	Table, bed		1	10					2. 1. 6. 10
	Do. bed-side, with two shelves, open.		1	1	22	12	62	108	

List of Hospital Furniture authorized to be supplied by the Commissariat Department.

List of Hospital Furniture												
1	2	3	4	5	6	7	8	9	10			
Letter.	Articles.	HOSPITALS FOR EUROPEANS.								Remarks.	Reasons for deviation from the Bengal Scale.	
		Scale.	Number of each Article to be always kept complete and serviceable in Hospital.									
			Proportion.	To Number of Sick.	Battery of Horse or Field Artillery.		Battery of Mountain, Garrison or Heavy Artillery, or Company of Royal Engineers.		Regiment of Cavalry.			Regiment of Infantry.
					Male 18.	Female 4.	Male 10.	Female 2.					Male 10.	Female 12.	Male 92.	Female 16.
P.	Punkah fringes, 18 inches deep	...	...	...	One for each punkah	...	...	...	...	The fringes should be washed once during the season at the expense of the State, after they have been put up clean.		
E.	Punkah-pulling ropes or canes	...	...	...	According to requirements.	...	...	...	...			
	Punkah-suspending rods or ropes	...	...	...	Do. do.	...	...	...	...			
	Rack, plate	...	...	...	One for each regimental hospital building.	...	...	...	...			
	Do. towel	...	1	8	One for each regimental hospital	...	...	...	...	For the Surgery.		
	Do. do.	...	...	...	Two per latrine	...	...	...	...	One in use, and one in course of removal. For stations in the plains only.		
	Receptacles, filth, large	...	...	...	Two per urinary	...	...	...	...	Do. do. do.		
	Do. do. do.	...	...	...	Three per latrine	...	...	...	...	For stations in the hills.		
	Do. do. small	...	...	...	Two per urinary	...	...	...	...	Do. do.		
	Do. do. do.	...	...	...	Two for each cook-house	...	...	...	...	2 lb. of mixed white anti-corrosive paint is allowed annually for each cook-house receptacle in use. To be supplied by the Ordnance Department: vide G.O., No. 296 of 1872.		
	Receptacles, large (painted white)	...	...	...	Three for each cook-house	...	...	...	...	2 lb. of mixed white anti-corrosive paint is allowed annually for each cook-house receptacle in use. To be supplied by Ordnance Department: vide G.O., No. 296 of 1872.		
Do. small (painted white)	...	...	...	One per urinary and one for each dry-earth box in latrines.	...	...	...	...	For stations in the hills.			
	Scoops, dry-earth	...	...	...	Two per latrine with more than ten seats, and one per latrine with ten seats or less.	...	...	...	...	For stations in the plains only.		
	Scrapers, dry earth	...	...	...	One for each archway.	...	...	...	...	To put round the bed of a dying man.		
	Screens, moveable	...	1	50	Two per latrine with more than ten seats, and one per latrine with ten seats or less.	...	...	...	...	At stations unprovided with store-sheds.		
	Do. for archways between wards	...	...	...	One for each archway.	...	...	...	...			
	Sieves, dry-earth	...	...	...	Two per latrine with more than ten seats, and one per latrine with ten seats or less.	...	...	...	...			
	Stands, surahi, to hold six surahis	...	1	12	Two for each large, and one for each small ward.	...	...	...	...	To be allowed only when there are no fire-places.		
	Stoves or braziers, with fines or pipes leading to outer air.	...	...	...	...	...	...	...	...	For the use of patients unable to sit up.		
T.	Table, bed	...	1	10	...	...	...	...	...			
	Do. bed-side, with two shelves, open.	...	1	1	...	...	...	...	...			

BENGAL SCALE. TABLE No. 148.—(Continued).

List of Hospital Furniture authorized to be supplied by the Public Works Department.

1	2	3	4	5	6	7	8	9				
Letter.	Articles.	HOSPITALS FOR EUROPEANS.						Remarks.				
		Proportion.	To Number of Sick.	Scale.		Number of each Article to be always kept complete and serviceable in Hospital.						
				Male 18.	Female 4.	Male 10.	Female 2.		Male 50.	Female 12.	Male 92.	Female 16.
T.	Table camp, small	...	...	1	1	2	2	For troops on the line of march.				
	Do. common, 7' x 3'	...	...	One per mortuary, if required.								
	Do. dispensing, or compounding	...	...	1	1	2	2					
	Do. dissecting, with head-rest	...	...	One per mortuary.								
	Do. 5' x 2' 10"	...	...	As required								
	Do. 10' x 3'	...	...	One for each large ward				For Attendant's room.				
	Do. cook-house, 3' x 2'	...	...	Two per cook house.				For convalescent's dinner.				
	Do. prescribing, small	...	...	One for each ward.								
	Do. writing, small, 3' x 1' 8"	...	...	One per mortuary.								
	Do. do. do. 3' x 1' 8"	...	...	One per Surgery.								
	Do. with drawer and cupboard	...	...	1	1	2	2	For hospital office.				
	Thermantidotes	...	...	One per main ward according to actual requirements.				To be supplied on special requisitions.				
	Ticket frames, bed	...	...	15	10	30	15	For bed-head tickets for Native sick where hospitals for Native followers are provided.				
	Trays, dressing	...	...	1	1	2	3	For Surgery use.				
	Do. for kerosine lamps	...	...	One per twelve lamps.								
	Do. wooden, medium size	1	12	2	1	5	9	For carrying food, &c., into the wards.				
	Trestle, for boxes	...	...	According to requirements.								
	Do. for supporting coffins	...	...	Six for each mortuary.								
	Trunks, camel, pairs, with padlocks and keys (English), and with moveable trays.	...	...	2	2	5	6	For medicines and instruments on the line of march.				
	Do. do. do.	...	...	1	1	1	1	For hospital records on the line of march.				
	Do. do. do.	...	...	According to requirements				For hospital equipment and Purveyor's stores on the line of march. To be supplied direct by the Commissariat Department.				
	Trunks, mule, with padlocks and keys (English), and with moveable trays.	...	...	...	3	...	...	For medicines and instruments.				
U.	Urinals, iron, complete with trays	...	...	2	2	4	6	To be supplied only when good earthenware glazed ones are not procurable by the Commissariat Department.				
W.	Wash-hand stand, with fittings	...	...	One for each surgery.								

- NOTES.—1. For detachments of British troops, the scale of furniture to be allowed will be for 12 per cent. of sick.
 2. Every hospital shall be provided with the articles of furniture at the scale entered in this list, to the extent only of the accommodation provided in such hospital.
 3. When the number of sick exceeds that for which furniture is above authorised, a further supply of such necessary articles of furniture sufficient to meet the requirements of the extra sick according to the scale given in Columns 3 and 4 shall be provided by the Public Works Department, on the orders of the Officer Commanding the Division or District. In cases, however, of rapid increase of sick in European hospitals necessitating the provision of extra hospital accommodation, barrack cots, tables and forms may be used in lieu of similar articles of hospital furniture when the latter is not available or readily procurable.
 4. The term "regimental hospital" includes the complete set of buildings, for the use of each corps or detachment in each station.
 5. Camp furniture will only be supplied when troops move out into camp and will be given back when they return to quarters.
 6. Hill depots will be supplied with furniture according to the following scale :—
 1st Class.—As authorised for a regiment of European Infantry.
 2nd Class.—As authorised for a regiment of European Cavalry.

MADRAS SCALE.—(Continued).

List of Hospital Furniture authorized to be supplied by the Commissariat Department.

1	2	3	4	5	6	7	8	9	10				
Letter.	Articles.	HOSPITALS FOR EUROPEANS.						Remarks.	Reasons for deviation from the Bengal Scale.				
		Proportion.	To Number of Sick.	Scale.		Number of each Article to be always kept complete and serviceable in Hospital.							
				Male 18.	Female 4.	Male 10.	Female 2.			Male 10.	Female 12.	Male 82.	Female 16.
T.	Table, camp, small	...	...	1.	1	2	2	For troops on the line of march.					
	Do. common, 7' x 3'	...	...	One per mortuary if required.									
	Do. dispensing or compounding	...	...	1	1	2	2						
	Do. dissecting, with head-rest	...	...	One per mortuary.									
	Do. 5' x 2' 10"	...	...	As required				For Attendant's room.					
	Do. 10' x 3'	...	...	One for each large ward				For convalescent's dinner.					
	Do. cook-house, 3' x 2'	...	...	Two per cook-house.									
	Do. prescribing, small	...	...	One for each ward.									
	Do. writing, small 3' x 1' 8"	...	...	One per mortuary.									
	Do. do. 3' x 1' 8"	...	...	One per Surgery.									
	Do. with drawer and cupboard	...	...	1	1	2	2	For hospital office.					
	Thermantidotes	...	...	One per main ward according to actual requirements.				To be supplied on special requisitions.					
	Ticket frames, bed	...	...	15	10	30	15	For bed-head tickets for Native sick where hospitals for Native followers are provided.					
	Trays, dressing	...	...	1	1	2	3	For Surgery use.					
	Do. for kerosine lamps	...	...	One per twelve lamps.									
	Do. wooden, medium size ... 1 12	...	...	2	1	5	9	For carrying food, &c., into the wards.					
	Trestle, for boxes	...	...	According to requirements.									
	Do. for supporting coffins	...	...	Six for each mortuary.									
	Trunks, camel, pairs, with padlocks and keys, (English), and with moveable trays.	...	...	2	2	5	6	For medicines and instruments on the line of march.					
	Do. do. do.	...	...	1	1	1	1	For hospital records on the line of march.					
	Do. do. do.	...	...	According to requirements				For hospital equipment and Purveyor's store on the line of march. To be supplied direct by the Commissariat Dept.					
	Trunks, mule, with padlocks and keys (English), and with moveable trays.	...	...	...	3	...	...	For medicines and instruments.					
U.	Urinals, iron, complete with trays	...	...	2	2	4	6	To be supplied only when good earthenware glazed ones are not procurable by the Commissariat Department.					
W.	Wash-hand stand, with fittings	...	...	One for each Surgery.									

- NOTES.—1. For detachments of British troops, the scale of furniture to be allowed will be for 12 per cent. of sick.
 2. Every hospital shall be provided with the articles of furniture at the scale entered in this list, to the extent only of the accommodation provided in such hospital.
 3. When the number of sick exceeds that for which furniture is above authorised, a further supply of such necessary articles of furniture sufficient to meet the requirements of the extra sick according to the scale given in Columns 3 and 4 shall be provided by the Commissariat Department through the Barrack Department, on the orders of the Officer Commanding the Division or District. In cases, however, of rapid increase of sick in European hospitals necessitating the provision of extra hospital accommodation, barrack cots, tables, and forms may be used in lieu of similar articles of hospital furniture when the latter is not available or readily procurable.
 4. The term "regimental hospital" includes the complete set of buildings for the use of each corps or detachment in each station.
 5. Camp furniture will only be supplied when troops move out into camp, and will be given back when they return to quarters.
 6. Hill Depots will be supplied with furniture according to the following scale :—
 1st Class.—As authorised for a regiment of European Infantry.
 2nd Class.—As authorised for a regiment of European Cavalry.

BENGAL SCALE. TABLE No. 147.—(Continued).

List of Miscellaneous Articles authorised to be issued by the Commissariat Department for use in Barracks.

1	2	3	4	5
Letter.	Articles.	Where required and for what purpose.	Authorized Proportion.	Remarks.
B.	Basin, earthen, glazed.	...	1 Per man	Renewals limited to 15 per cent. per mensem of strength of corps or detachment. To be issued, when procurable, in preference to unglazed ones, of which latter, the scale of renewals is limited to 25 per cent. per mensem of strength of corps or detachment. The issue of earthenware basins is only to be made at stations at which the issue of steel basins is not authorised.
	Basins, steel, washing.	For the use of British troops at the stations mentioned in G.Os., Nos. 78 and 215 of 1876.	1 Per man	To be tinned twice a year, and to be made over on the march of troops in the manner prescribed in paras. 23 and 24 of G.G.O., No. 303 of 1872.
	Blankets, English, brown.	For extra issues in barracks.	1 or 2 Per man or woman	During exceptionally cold weather, provided the General Officer Commanding, and the Principal Medical Officer at the station concerned, consider such extra issue necessary. To be returned into store when no longer required
	Do. do.	On the line of march.	1 Extra blanket per man or woman may be issued on the line of march during exceptionally cold weather.	Under the same restrictions.
	Brooms	Barracks with boarded floors.	21 Per regiment and depôt and division of Artillery above the strength of a wing of Infantry.	Where men undertake to clean their own barrack rooms.
			10 Per wing and depôt and division of Artillery below strength of a wing of Infantry.	
			6 Per light field battery. 4 Per garrison battery.	

MADRAS SCALE.—(Continued).

List of Miscellaneous Articles authorised to be issued by the Commissariat Department through the Barrack Department for use in Barracks.

1	2	3	4	5	6
Letter.	Articles.	Where required and for what purpose.	Authorized Proportion.	Remarks.	Reasons for deviation from the Bengal Scale.
B.	Basin, earthen, glazed.	...	1 Per man.	Renewals limited to 15 per cent. per mensem of strength of corps or detachment. To be issued, when procurable, in preference to unglazed ones, of which latter, the scale of renewals is limited to 25 per cent. per mensem of strength of corps or detachment. The issue of earthenware basins is only to be made at stations at which the issue of steel basins is not authorised.	
	Basins, steel, washing.	For the use of British troops at the stations mentioned in G.Os., Nos. 78 and 215 of 1876.	1 Per man.	To be tinned twice a year, and to be made over on the march of troops in the manner prescribed in paras. 23 and 24 of G.G.O., No. 303 of 1872.	
	Blankets, English, brown.	For extra issues in barracks.	1 or 2 Per man or woman.	During exceptionally cold weather, provided the General Officer Commanding, and the Principal Medical Officer at the station concerned, consider such extra issue necessary. To be returned into store when no longer required	
	Do. do.	On the line of march.	1 Extra blanket per man or woman may be issued on the line of march during exceptionally cold weather	Under the same restrictions.	
	Brooms	Barracks with boarded floors.	21 Per regiment and depôt and division of Artillery above the strength of a wing of Infantry.	When men undertake to clean their own barrack-rooms.	
			10 Per wing and depôt and Division of Artillery below strength of a wing of Infantry.		
			6 Per light field battery. 4 Per garrison battery.		

BENGAL SCALE. TABLE No. 147.—(Continued).

List of Miscellaneous Articles authorised to be issued by the Commissariat Department, for use in Barracks.

1	2	3	4	5
Letter.	Articles.	Where required and for what purpose.	Authorized Proportion.	Remarks.
B.	Brooms, with long bamboo handles.	Cleaning roofs and walls of barracks.	2 Per barrack for a troop or company, or more. 1 Per barrack for less than a troop or company.	Where men undertake to clean their own barrack rooms.
	Brushes, with long handles.	Barracks with stone floors.	1 Per barrack for married men. 21 Per regiment and depôt and division of Artillery above strength of wing of Infantry.	
			10 Per wing and depôt and division of Artillery under strength of wing of Infantry.	Undertaking to clean their own barracks.
			6 Per light field battery. 4 Per garrison battery.	
	Brushes, washing.	For palliasse and pillow cases.	20 Per cent. per set of one palliasse and one pillow in use. In lieu of these brushes, men on the unattached list are allowed compensation at the following rates—2 annas for single and 4 annas for married men, each, per annum.	They are required to last for a year, and are not to be replaced unless reported to be unserviceable.
	Brushes, scrubbing, coir.	Barracks, scrubbing furniture.	21 Per regiment and depôt and division of Artillery above the strength of a wing of Infantry.	Undertaking to clean their own furniture.
			10 Per wing and depôt and division of Artillery under strength of wing of Infantry.	
			6 Per light field battery. 4 Per garrison battery.	Renewals 5 per cent. per mensem on the number in use.
	Burners, glass, oil, common.	Barracks and accessories for lanterns.	1 Per lantern in use.	
C.	Burners, kerosine lamps.	Barracks and accessories for lanterns.	1 Per lantern in use.	Renewals 2 per cent. per annum if metal, and 7 per cent. if glass.
	Cover, perforated.	For filter-stands.	1 Per filter-stand, to be placed on the lowest ghurrah.	20 per cent. per mensem, for renewals on the number in use.
	Candlestick and shade.	Officers' guard-room.	2 Per officer on guard.	
	Casks, half, or reservoirs with lid.	Lavatories, to hold water for basins.	2 Per lavatory not provided with pukka reservoirs or tanks for the purpose.	
	Chimneys	Kerosine lamp.	1 Per lamp	Renewals at 15 per cent. per mensem on the number in use.

MADRAS SCALE.—(Continued).

List of Miscellaneous Articles authorised to be issued by the Commissariat Department, through the Barrack Department, for use in Barracks.

1	2	3	4	5	6
Letter.	Articles.	Where required and for what purpose.	Authorized Proportion.	Remarks.	Reasons for deviation from the Bengal Scale.
B.	Brooms, with long bamboo handles.	Cleaning roofs and walls of barracks.	2 Per barrack for a troop or company or more. 1 Per barrack for less than a troop or company.	When men undertake to clean their own barrack rooms.	
	Brushes, with long handles.	Barracks with stone floors.	1 Per barrack for married men. 21 Per regiment and depôt and division of Artillery above strength of wing of Infantry.		
			10 Per wing and depôt and division of Artillery under strength of wing of Infantry.	Undertaking to clean their own barracks.	
			6 Per light field battery. 4 Per garrison battery.		
	Brushes, washing.	For palliasse and pillow cases.	20 Per cent. per set of one palliasse and one pillow in use. In lieu of these brushes, men on the unattached list are allowed compensation at the following rates:—2 annas for single and 4 annas for married men, each, per annum.	They are required to last for a year, and are not to be replaced unless reported to be unserviceable.	
	Brushes, scrubbing, coir.	Barracks, scrubbing furniture.	21 Per regiment and depot and division of Artillery above the strength of a wing of Infantry.	Undertaking to clean their own furniture.	
			10 Per wing and depot and division of Artillery under strength of wing of Infantry.		
			6 Per light field battery. 4 Per garrison battery.	Renewals 5 per cent. per mensem on the number in use.	
	Burners, glass, oil, common.	Barracks and accessories for lanterns.	1 Per lantern in use		
C.	Burners, kerosine lamps.	Barracks and accessories for lanterns.	1 Per lantern in use	Renewals 2 per cent. per annum if metal, and 7 per cent. if glass.	
	Cover, perforated.	For filter-stands	... One per filter-stand, to be placed on the lowest ghurrah.	20 per cent. per mensem for renewals on the number in use.	
	Candlestick and shade.	Officers' guard-room.	2 Per officer on guard.		
	Casks, half, or reservoirs with lid.	Lavatories, to hold water for basins.	2 Per lavatory not provided with pukka reservoirs or tanks for the purpose.		
	Chimneys	Kerosine lamp	1 Per lamp	Renewals at 15 per cent per mensem on the number in use.	

BENGAL SCALE. TABLE No. 147.—(Continued).

List of Miscellaneous Articles authorised to be issued by the Commissariat Department, for use in Barracks.

1	2	3	4	5
Letter.	Articles.	Where required and for what purpose.	Authorized Proportion.	Remarks.
C.	Chimneys ...	Lamps, night schools.	1	Per kerosine lamp. Renewals at the rate of 5 per cent. per mensem on the number in use.
G.	Gear, well, viz., Rope, hemp, pulley, mote, leather, with iron frame.	Wells for soldiers' gardens, plunge baths and tatties.	1	Each per well, also a yoke to each pair of bullocks. Gear for wells of company gardens will not be renewed or repaired by the State after the first supply has been made. Gear for wells of regimental gardens and plunge baths will be repaired as necessary; but for the former, renewals will not be made oftener than once a-year at the expense of the State.
J.	Jars, water ..	.....	...	Sufficient to contain two gallons per man. The jars supplied will be of sizes of from ten to twenty gallons, with intermediate sizes as necessary. Renewable three times a year.
L.	Lamps common	Barracks for which kerosine lamps have not been provided and accessories.	6	Lamps per every 100 soldiers in barracks, whether the barrack be a company or half company one. At stations where the number of rooms renders this scale inapplicable, the number of lamps in use may be increased to such an extent as will admit of one light burning all night in each room used as a dormitory.
	Lamps, kerosine	Regimental, quarter and main guards.	1	Per latrine and urinal in use... Those attached to Staff Serjeants' quarters are not provided with lamps by the State.
	Do. do.	Night school ...	1	Per each guard-room... A lamp to burn all night is allowed for the prisoners' room of the quarter and main guard of British troops.
			1	Per four men attending at one time. The attendance to equal twenty-five in complete regiment of European Cavalry or Infantry, twenty in wings of regiments, in combined Artillery Schools and Convalescent Depôts, and fifteen in detached batteries of Royal Artillery.

MADRAS SCALE.—(Continued).

List of Miscellaneous Articles authorised to be issued by the Commissariat Department, through the Barrack Department, for use in Barracks.

1	2	3	4	5	6
Letter.	Articles.	Where required and for what purpose.	Authorized Proportion.	Remarks.	Reasons for deviation from the Bengal Scale.
C.	Chimneys ...	Lamps, night schools.	1	Per kerosine lamp ...	Renewals at the rate of 5 per cent. per mensem on the number in use.
G.	Gear, well, viz.:—Rope, hemp, pulley, mote, leather, with iron frame.	Wells for soldiers' gardens, plunge baths and tatties.	1	Each per well, also a yoke to each pair of bullocks.	Gear for wells of company gardens will not be renewed or repaired by the State after the first supply has been made. Gear for wells of regimental gardens and plunge baths will be repaired as necessary; but for the former, renewals will not be made oftener than once a year at the expense of the State.
J.	Jars, water ...	.....	...	Sufficient to contain two gallons per man. The jars supplied will be of sizes of from ten to twenty gallons, with intermediate sizes as necessary.	Renewals three times a-year.
L.	Lamps, whether kerosine or common.	Barracks ...	6	Lamps per every 100 soldiers in barracks, whether the barrack be a company or half-company one. At stations where the number of rooms renders this scale inapplicable, the number of lamps in use may be increased to such an extent as will admit of one light burning all night in each room used as a dormitory.	N.B.—The use of naked lights is strictly prohibited in barracks, i. e., of lights not enclosed in lanterns.
	Lamps, kerosine	Regimental, quarter and main guards.	2	Per guard ...	Those attached to Staff Serjeants' quarters are not provided with lamps by the State. A lamp to burn all night is allowed for the prisoners' room of the quarter and main guard of British troops.
	Do. ...	Night school ...	1	Per four men attending at one time. The attendance to equal twenty-five in complete regiment of European Cavalry or Infantry, twenty in wings of regiments, in combined Artillery Schools and Convalescent Depôts, and fifteen in detached batteries of Royal Artillery.	

BENGAL SCALE. TABLE No. 147.—(Continued).

List of Miscellaneous Articles authorised to be issued by the Commissariat Department for use in Barracks.

1	2	3	4	5
Letter.	Articles.	Where required and for what purpose.	Authorized Proportion.	Remarks.
L.	Lamps, kerosine	...	2 Hanging lamps. } For an area of 1,000 superficial feet. 3 Wall lamps. } For rooms containing 1 to 399 superficial feet. } 1 lamp, either hanging or wall. For rooms containing 400 to 599 superficial feet. } 1 hanging lamp. 1 wall lamp. For rooms containing 600 to 799 superficial feet. } 1 hanging lamp. 2 wall lamps. For rooms containing 800 to 999 superficial feet. } 2 hanging lamps. 2 wall lamps. For rooms containing 1,000 superficial ft. } 2 hanging lamps. 3 wall lamps. The proportion of hanging to wall lamps, within the above scale, will be left to the discretion of the Standing Barrack Committees, so as to suit the peculiar form of construction, &c., of different rooms, but the scale once fixed by the Committee will be final, subject only to change under special instructions from Head-quarters. In cases where rooms contain more than 1,000 superficial feet, the excess space is to be lighted in accordance with the above scale.	For every man a barrack is calculated to accommodate (Serjeants' room excepted), 45 superficial feet of area will be lighted until tattoo; five lamps, in the proportion of about two hanging to three wall according to circumstances, being allowed per 1,000 superficial feet. The distribution of the lamps in each barrack will rest with Commanding Officers, who will, however, be responsible that whenever a barrack is, under any circumstances, only partially occupied, the full number of lamps are not lighted. After tattoo, only one lamp will be left burning in each dormitory during the rest of the night. In barracks in hill stations only thirty superficial feet of area per man will be lighted until tattoo.

MADRAS SCALE.—(Continued).

List of Miscellaneous Articles authorized to be issued by the Commissariat or other Department, through the Barrack Department, for use in Barracks.

1	2	3	4	5	6
Letter.	Articles.	Where required and for what purpose.	Authorized Proportion.	Remarks.	Reason for deviation from the Bengal Scale.
L.	Lamps, kerosine	...	2 Hanging lamps. } For an area of 1,000 superficial feet. 3 Wall lamps. } For rooms containing 1 to 399 superficial feet. } 1 lamp, either hanging or wall. For rooms containing 400 to 599 superficial feet. } 1 hanging lamp. 1 wall lamp. For rooms containing 600 to 799 superficial feet. } 1 hanging lamp. 2 wall lamps. For rooms containing 800 to 999 superficial feet. } 2 hanging lamps. 2 wall lamps. For rooms containing 1,000 superficial feet. } 2 hanging lamps. 3 wall lamps. The proportion of hanging to wall lamps, within the above scale, will be left to the discretion of the Standing Barrack Committees, so as to suit the peculiar form of construction, &c., of different rooms, but the scale once fixed by the Committee will be final, subject only to change under special instructions from Head-quarters. In cases where rooms contain more than 1,000 superficial feet, the excess space is to be lighted in accordance with the above scale.	For every man a barrack is calculated to accommodate (Serjeants' room excepted), 45 superficial feet of area will be lighted until tattoo; five lamps, in the proportion of about two hanging to three wall, according to circumstances, being allowed per 1,000 superficial feet. The distribution of the lamps in each barrack will rest with Commanding Officers, who will, however, be responsible that whenever a barrack is, under any circumstances, only partially occupied, the full number of lamps are not lighted. After tattoo, only one lamp will be left burning in each dormitory during the rest of the night. In barracks in hill stations, only thirty superficial feet of area per man will be lighted until tattoo.	

N.B.—For lights for barracks and hospitals occupied by Native troops in Burma, and for guards generally, and oil for gates, &c., see Madras G. O. G., No. 903 of 1878.

BENGAL SCALE. TABLE No. 147.—(Continued).

List of Miscellaneous Articles authorized to be issued by the Commissariat Department for use in Barracks.

1	2	3	4	5
Letter.	Articles.	Where required and for what purpose.	Authorized Proportion.	Remarks.
L.	Lamps, kerosine	Serjeants' Messes	1	Lamp for every six Serjeants in mess. The lamp will not be provided at the expense of the State, but only the kerosine oil (4 oz. daily for every six Serjeants in mess.)
	Lanterns	Guards, Native	1	Per Native regimental guard occupying public buildings.
	Lanterns, bull's eye.	Guards, British	1	Per guard.
M.	Musquito curtains, palliasse and pillow cases, &c.	Officers' guard rooms, main.	1	Per officer on guard.
P.	Palliasse cases 6' 6" x 2' 9" (when stuffed).	...	2	Per iron trestle cot, to be the property of Government. These are required to last three years.
	Pillow cases 2' 3" x 1' 4" (when stuffed.)	...	2	
	Leather strap with buckle.	...	1	
	Pans, privy, glazed, earthenware.	...	1	Per opening in privy seat ... Renewals 25 per cent. monthly on the number in use. Iron privy pans to be used only when good glazed earthenware ones are not procurable, and will be supplied by the Public Works Department.
S.	Scissors, of country manufacture.	To trim the wicks of kerosine lamps.	1	Pair per barrack or building where kerosine lamps are burned. To be renewed after four years, if unserviceable.
T.	Trays, glazed, earthenware.	Urinals	1	Per urinal ... Renewals 8 per cent. monthly. Glazed earthenware trays to be supplied by the Commissariat when glazed earthenware urinals are in use; iron trays to be provided by the Public Works Department when iron urinals are in use.
	Tubs $\frac{1}{2}$ cask	Lavatories for bathing.	4	Per lavatory ... For wash-houses not on the standard plan.

NOTE.—At stations where kerosine oil is cheaper than common oil, it can be used for lighting barracks. Where dormitories of single men are also used as day-rooms, they are to be lighted by kerosine oil all night—i.e., one lamp to burn all night.

MADRAS SCALE.—(Continued).

List of Miscellaneous Articles authorized to be issued by the Commissariat or other Department, through the Barrack Department, for use in Barracks.

1	2	3	4	5	6
Letter.	Articles.	Where required and for what purpose.	Authorized Proportion.	Remarks.	Reasons for deviation from the Bengal Scale.
L.	Lamps, kerosine	Serjeants' Messes	1	Lamp for every six Serjeants in mess. The lamp will not be provided at the expense of the State, but only the kerosine oil (4 oz. daily for every six Serjeants in mess.)	
	Lanterns	Guards, Native	1	Per Native regimental guard occupying public buildings.	
	Lanterns, bull's eye.	Guards, British	1	Per guard.	
M.	Musquito curtains, palliasse and pillow cases, &c.	Officers' guard rooms, main.	1	Per officer on guard.	
P.	Palliasse cases, 6' 6" x 2' 9" (when stuffed).	...	2	Per iron trestle cot, to be the property of Government. These are required to last three years.	
	Pillow cases, 2' 3" x 1' 4" (when stuffed.)	...	2		
	Leather strap with buckle.	...	1		
	Pans, privy, glazed earthenware.	...	1	Per opening in privy seat ... Renewals 25 per cent. monthly on the number in use. Iron privy pans to be used only when good glazed earthenware ones are not procurable, and will be supplied by the Public Works Department.	
S.	Scissors, of country manufacture.	To trim the wicks of kerosine lamps.	1	Pair per barrack or building where kerosine lamps are burned. To be renewed after four years, if unserviceable.	
T.	Trays, glazed, earthenware.	Urinals	1	Per urinal ... Renewals 8 per cent. monthly. Glazed earthenware trays to be supplied by the Commissariat when glazed earthenware urinals are in use; iron trays to be provided by the Public Works Department when iron urinals are in use.	
	Tubs, $\frac{1}{2}$ cask	Lavatories for bathing.	4	Per lavatory ... For wash-houses not on the standard plan.	

NOTE.—At stations where kerosine oil is cheaper than common oil, it can be used for lighting barracks. Where dormitories of single men are also used as day-rooms, they are to be lighted by kerosine oil all night—i.e., one lamp to burn all night.

BENGAL SCALE. TABLE No. 147.—(Continued).

List of Miscellaneous Articles authorized to be issued by the Commissariat Department for use in Barracks.

1	2	3	4	5
Letter.	Articles.	Where required and for what purpose.	Authorized Proportion.	Remarks.
U.	Urinals, glazed earthenware.	...	5 Per Garrison Battery, Troop of Cavalry, or Company of Infantry.	Scale of renewals 20 per cent. per mensem. Iron urinals are to be issued only when glazed earthenware ones are not procurable. The former will be supplied by the Public Works Department; where iron urinals are in use, the Commissariat will supply one earthenware cover per urinal, and renewals at 8 per cent. per mensem.
			10 Per Horse and Field Battery of Royal Artillery.	
W.	Wick-holders for oil burners, common.	...	1 Per burner.	
	Wick-holders for kerosine lamps	...	1 Per lamp	Renewals at 7 per cent. per annum.
			FURNITURE FOR SIGNALLERS IN TELEGRAPH DEPARTMENT.	
B.	Basins, earthenware.	...	1 Per man.	
	Basins, metal	...	1 Per four men	Only to be supplied when earthenware basins are not procurable.
L.	Lanterns, complete, with burners, &c.	...	1 Per sixteen men or less.	
			FURNITURE FOR PRAYER ROOMS.	
W.	Wall lamps	...	5 Per regiment of Cavalry or wing of Infantry.	When the lamps at present in use are worn out and require to be replaced, kerosine lamps are to be indented for.
			8 Per regiment of Infantry.	
			12 Per two regiments of Infantry.	
			1 Additional for each battery of Royal Artillery.	

BENGAL SCALE. TABLE No. 147.—(Continued).

List of Miscellaneous Articles authorized to be issued by the Commissariat Department for use in Barracks.

1	2	3	4	5
Letter.	Articles.	Where required and for what purpose.	Authorized Proportion.	Remarks.
	Basins, metal, washing. Lamps, to be supplied complete with burners, &c. Privy pans, glazed earthenware.* Tubs (in the absence of a bath.) Urinals, glazed earthenware.*	For prison cells.	... As required ...	* If iron privy pans or urinals are to be supplied, they will be provided by the Public Works Department, and one earthenware cover per urinal by the Commissariat Department.
	Basins, earthenware, glazed. Lamps, common, complete with burners, &c. Palliasse covers, canvas. Pillow-cases, canvas. Leather strap with buckle. Privy pans, glazed earthenware.	For Rest Barracks.	... According to requirements on special indent. 2 Per man. 2 Do. 1 Do. ... According to requirements on special indent.	Iron privy pans to be used only when good earthenware ones are not procurable, and will be supplied by the Public Works Department: see G.O., No. 22 of 1873. Iron urinals to be used when glazed earthenware ones are not procurable. The former will be supplied by the Public Works Department, where iron urinals are in use, the Commissariat will supply one earthenware cover per urinal: see G.O., No. 22 of 1873.
	Tubs, half-casks Urinals for single men, glazed earthenware.		... Do. do. do.	

MADRAS SCALE.—(Continued).

List of Miscellaneous Articles authorized to be issued by the Commissariat or other Department, through the Barrack Department, for use in Barracks.

1	2	3	4	5	6
Letter.	Articles.	Where required and for what purpose.	Authorized Proportion.	Remarks.	Reasons for deviation from the Bengal Scale.
	Basins, metal, washing. Lamps to be supplied complete with burners, &c. Privy pans, glazed earthenware.* Tubs (in the absence of a bath). Urinals, glazed earthenware.*	For prison cells.	... As required ...	* If iron privy pans or urinals are to be supplied, they will be provided with one earthenware cover per urinal by the Commissariat Department.	
	Basins, earthenware, glazed. Lamps, common, complete with burners, &c. Palliasse covers, canvas. Pillow-cases, canvas. Leather strap with buckle. Privy pans, glazed, earthenware.	For Rest Barracks.	... According to requirements on special indent. 2 Per man. 2 Do. 1 Do. ... According to requirements on special indent.	Iron privy pans to be used only when good glazed earthenware ones are not procurable, and will be supplied by the Commissariat Department.	
	Tubs, half-casks. Urinals for single men, glazed earthenware.		... Do. do. do.	Iron urinals to be used when glazed earthenware ones are not procurable.	

List of Miscellaneous Articles authorized to be issued by the Commissariat Department for use in Barracks.

**MISCELLANEOUS ARTICLES FOR ISSUE
TO HOSPITAL APPRENTICES STUDYING
AT THE CALCUTTA MEDICAL
COLLEGE.**

List of Miscellaneous Articles authorized to be issued by the Commissariat or other Department, through the Barrack Department, for use in Barracks.

MISCELLANEOUS ARTICLES.
FOR ISSUE TO HOSPITAL AP-
PRENTICES STUDYING AT THE
MADRAS MEDICAL COLLEGE.

BENGAL SCALE. TABLE NO. 147.—(Continued).

List of Miscellaneous Articles authorized to be issued by the Commissariat Department, for use in Barracks.

1	2	3	4	5
Letter.	Articles.	Where required and for what purpose.	Authorized Proportion.	Remarks.
			MISCELLANEOUS ARTICLES FOR ISSUE TO HOSPITAL APPRENTICES STUDYING AT THE CALCUTTA MEDICAL COLLEGE.—(Continued.)	
	Brooms with long bamboo handles.	Cleaning roofs and walls of barracks.	2	
	Burners, glass, oil, common.	Accessories for lamp.	1	Per lamp.
	Chimneys, common.	Lamps for night studying.	1	Per solar lamp.
	Lamps, solar ...	Reading room for night studying.	1	Per four students.
	Lamps, common	Barrack and accessories.	12	
	Tubs, half-cask	Lavatory for bathing.	6	
	Wick-holders ...	For oil-burners, common.	1	Per burner

MADRAS SCALE.—(Continued).

List of Miscellaneous Articles authorized to be issued by the Commissariat Department, through the Barrack Department.

1	2	3	4	5	6
Letter.	Articles.	Where required and for what purpose.	Authorized Proportion.	Remarks.	Reasons for deviation from the Bengal Scale.
			MISCELLANEOUS ARTICLES FOR ISSUE TO HOSPITAL APPRENTICES STUDYING AT THE MADRAS MEDICAL COLLEGE. (Continued.)		
	Brooms with long bamboo handles.	Cleaning roofs and walls of barracks.	2		
	Burners, glass, oil, common.	Accessories for lamp.	1	Per lamp.	
	Chimneys, common.	Lamps for night studying.	1	Per solar lamp.	
	Lamps, solar ...	Reading room for night studying.	1	Per four students.	
	Lamps, common	Barrack and accessories.	12		
	Tubs, half-cask	Lavatory for bathing.	6		
	Wick-holders ...	For oil-burners, common.	1	Per burner.	

BENGAL SCALE. TABLE No. 148.—(Continued).

List of Hospital Equipment authorized to be issued to British Troops by the Commissariat Department in Cantonments and Quarters.

1	2	3	4	5	6	7	8
Description of Articles.	Scale.		Number of each Article (calculated for 12 per Cent. of Sick on the authorized Strength) to be kept complete and serviceable in Purveyor's Store.				Remarks.
	Proportion.	Sick.	Battery of Royal Horse or Field Artillery.	Battery of Mountain, Garrison or Heavy Artillery and Company of Royal Engineers.	Regiment of Cavalry or 2nd Class Hill Depot.	Regiment of Infantry or 1st Class Hill Depot.	
SECTION I.							
MISCELLANEOUS ARTICLES.—(Continued).							
Basin, metal, wash-hand, small.*	1	each	20	11	61	112	To be tinned twice a-year. * Until metal wash-hand basins can be supplied, earthen glazed ones will be issued in accordance with the above scale, with a renewal of 15 per cent. monthly. The issue of steel basins to all hospitals of British troops on the scale of one per bed has been sanctioned by Government.
Basin, crockery, pint size	1	5	4	2	12	22	For washing sores.
Basket, bottle, to hold 6 bottles.	...	...	...	...	...	...	One for each large ward.
Bath bricks	...	...	...	...	...	...	For each regiment of Cavalry and Infantry, or force of Royal Artillery consisting of two or more batteries, or 1st class Hill Depot—One bath brick per month. For each detached battery of Royal Artillery, company of Royal Engineers or 2nd class Hill Depot—One bath brick every two months. For detachments—In proportion to strength, according to above scale.
Bell, fumigating, with vapour apparatus.	...	...	...	...	...	...	One for each hospital.
Broom, with long handle	...	...	...	...	...	...	For sweeping walls, &c. One for each large ward.
Brushes, scrubbing, with long handle.	...	...	3	3	6	6	For hospitals of European corps not provided with wooden floors.
Brush, hand, scrubbing, cocoanut fibre.	1	10	2	1	6	11	For hospitals of European corps not provided with wooden floors.

MADRAS SCALE.—(Continued).

Scale of Hospital Equipment authorized to be issued to British Troops by the Commissariat or other Department in Cantonments and Quarters.

1	2	3	4	5	6	7	8	9
Description of Articles.	Scale.		Number of each Article (calculated for 12 per Cent. of Sick on the authorised Strength) to be kept complete and serviceable in Purveyor's Store.				Remarks.	Reasons for deviation from the Bengal Scale.
	Proportion.	Sick.	Battery of Royal Horse or Field Artillery.	Battery of Mountain, Garrison or Heavy Artillery and Company of Royal Engineers.	Regiment of Cavalry or 2nd Class Hill Depot.	Regiment of Infantry or 1st Class Hill Depot.		
SECTION I.								
MISCELLANEOUS ARTICLES.								
Basin, metal, wash-hand, small.*	1	each	20	11	61	112	To be tinned twice a-year. *Until metal wash-hand basins can be supplied, earthen glazed ones will be issued in accordance with the above scale, with a renewal of 15 per cent. monthly. The issue of steel basins to all hospitals of British troops on the scale of one per bed has been sanctioned by Government.	
Basin, crockery, pint size	1	5	4	2	12	22	For washing sores.	
Basket, bottle, to hold six bottles.	...	...	...	...	...	...	One for each large ward.	
Bath bricks	...	...	...	...	...	...	For each regiment of Cavalry and Infantry, or force of Royal Artillery consisting of two or more batteries, or 1st class Hill Depot—One bath brick per month.	
							For each detached battery of Royal Artillery, company of Royal Engineers, or 2nd class Hill Depot—One bath brick every two months.	
							For detachments—In proportion to strength, according to above scale.	
Bell, Lees', fumigating, with vapour apparatus.	...	...	...	...	...	...	One for each hospital.	
Broom, with long handle	...	...	...	...	...	...	For sweeping walls, &c.	
Brushes, scrubbing, with long handle.	...	...	3	3	6	6	One for each large ward.	
Brush, hand, scrubbing, cocoanut fibre.	1	10	2	1	6	11	For hospitals of European corps provided with wooden floors.	
							For hospitals of European corps not provided with wooden floors.	

Vide G.O.G., No. 925, dated 26th November 1875, page 249.

Corrected according to G.O., No. 4363, of 9th Sept. 1875.

vide G.O.G.,
No. 925,
dated 26th
November
1878, page
249.

Corrected according to
G.O., No.
4363, of 9th
Sept. 1875.

BENGAL SCALE. TABLE No. 148.—(Continued).

Scale of Hospital Equipment authorized to be issued to British Troops by the Commissariat Department in Cantonments and Quarters.

1	2	3	4	5	6	7	8
Description of Articles.	Scale		Number of each Article (calculated for 12 per Cent. of Sick on the authorized Strength) to be kept complete and serviceable in Purveyor's Store.				Remarks.
	Proportion.	Sick.	Battery of Royal Horse or Field Artillery.	Battery of Mountain, Garrison or Heavy Artillery and Company of Royal Engineers.	Regiment of Cavalry or 2nd Class Hill Depot.	Regiment of Infantry or 1st Class Hill Depot.	
SECTION I.							
MISCELLANEOUS ARTICLES.							
—(Continued).							
Burners, glass, for common oil lamps.	...	...	...	...	...	...	One per lantern. Renewals 5 per cent. monthly on the number in use.
Burners, duplex, for kerosine lamps.	...	..	...	...	...	...	One per lantern. Renewals 7 per per cent. per annum when glass ones are issued, and 2 per cent. if metal ones are supplied.
Chamber-pot with cover, crockery, white, china-ware.	1	2	10	5	30	56	.
Chick, fine, with binding, and ropes for hanging.	...	...	...	...	...	...	One for each opening in inner verandah.
Chick, coarse, with binding, and ropes for hanging.	...	...	...	...	...	...	One for each opening in outer verandah and one for each door and window in cook-house and mortuary. To be supplied with three sets of ropes for tying, and ropes and pulleys for elevating.
Chimney, kerosine	...	...	...	...	...	...	One per burner. Renewals 15 per cent. monthly.
Chisel	...	...	..	...	...	...	One for each hospital.
Clock, American, with bracket, the latter when necessary.	...	...	...	...	...	...	One for each British hospital.
Corkscrew	...	...	...	...	...	...	One for each large ward.
Crutches, French pattern pairs.	...	...	...	...	...	...	As required.
Cups, spitting, simple, earthen glazed.	1	each	20	10	60	112	Renewals 15 per cent. monthly.
Dooly, Army, with cover	One for a battery of Royal Artillery, company of Royal Engineers, or a hill depot, and two for a regiment of Cavalry or Infantry.				When a regiment is divided, one to each wing. For smaller detachments, when it is not practicable to detach one of the regimental doolies, a dooly may be furnished on the authority of the Administrative Medical Officer.		

MADRAS SCALE.—(Continued).

List of Hospital Equipment authorized to be issued to British Troops by the Commissariat or other Department in Cantonments and Quarters.

1	2	3	4	5	6	7	8	9
Description of Articles.	Scale.		Number of each Article (calculated for 12 per Cent. of Sick on the authorized Strength) to be kept complete and serviceable in Purveyor's Store.				Remarks.	Reasons for deviation from the Bengal Scale.
	Proportion.	Sick.	Battery of Royal Horse or Field Artillery.	Battery of Mountain, Garrison or Heavy Artillery and Company of Royal Engineers.	Regiment of Cavalry, or 2nd Class Hill Depot.	Regiment of Infantry or 1st Class Hill Depot.		
SECTION I.								
MISCELLANEOUS ARTICLES. (Continued.)								
Burners, glass, for common oil lamps.	...	...	...	...	...	...	One per lantern. Renewals 5 per cent. monthly on the number in use.	
Burners, duplex, for kerosine lamps.	...	...	...	...	...	...	One per lantern. Renewals 7 per cent. per annum when glass ones are issued, and 2 per cent. if metal ones are supplied.	
Chamber-pot with cover, crockery, white, china-ware.	1	2	10	5	30	56		
Chick, fine, with binding and ropes for hanging.	...	...	...	...	...	...	One for each opening in inner verandah.	
Chick, coarse, with binding and ropes for hanging.	...	...	...	...	...	...	One for each opening in outer verandah, and one for each door and window in cook-house and mortuary. To be supplied with three sets of ropes for tying, and ropes and pulleys for elevating.	
Chimney, kerosine	...	...	...	...	...	...	One per burner. Renewals 15 per cent. monthly.	
Chisel	...	...	...	...	...	...	One for each hospital.	
Clock, American, with bracket, the latter when necessary.	...	...	...	...	...	...	One for each British hospital.	
Corkscrew	...	...	...	...	...	...	One for each large ward.	
Crutches, French pattern pairs.	...	...	...	...	...	...	As required.	
Cups, spitting, simple, earthen glazed.	1	each	20	10	60	112	Renewals 15 per cent. monthly.	
Dooly, Army, with cover	One for a battery of Royal Artillery, company of Royal Engineers, or a hill depot, and two for a regiment of Cavalry or Infantry.				When a regiment is divided, one to each wing. For smaller detachments, when it is not practicable to detach one of the regimental doolies, a dooly may be furnished on the authority of the Administrative Medical Officer.			

BENGAL SCALE. TABLE No. 148.—(Continued).

Scale of Hospital Equipment authorized to be issued to British Troops by the Commissariat Department in Cantonments and Quarters.

Cantonments and Quarters.							
1	2	3	4	5	6	7	8
Description of Articles.	Scale.		Number of each Article (calculated for 12 per Cent. of Sick on the authorized Strength) to be kept complete and serviceable in Purveyor's Store.				Remarks.
	Proportion.	Sick.	Battery of Royal Horse or Field Artillery.	Battery of Mountain, Garrison or Heavy Artillery and Company of Royal Engineers.	Regiment of Cavalry or 2nd Class Hill Depot.	Regiment of Infantry or 1st Class Hill Depot.	
SECTION I.							
MISCELLANEOUS ARTICLES.							
(Continued).							
Dusters	...	...	20	10	60	112	Renewals, as worn out, without a Board of Survey.
Foot-warmer	1	50	1	1	1	2	The gear, with the necessary bullocks, will be supplied during the period tatties are in use. The number of cattle to be employed will be decided by the Annual Committee convened to survey the tatties previous to their issue for use, and the Executive Commissariat Officer will inform the Committee whether any public cattle are available, or whether it will be necessary to hire bullocks for the purpose.
Gear, well, viz., rope, hemp, pulley, mote, leather, with iron frame.	One each per well, also a yoke to each pair of bullocks.						
Gumlah, earthen, glazed for Native latrines.	...	...	2	2	4	4	For use in latrines of all hospital huts when these are provided for Native establishments of British Cavalry, Infantry and Artillery. Renewals 15 per cent. monthly.
Hammer	...	...	...	...	...	...	One for each hospital.
Jampans, complete ...	Two for a 1st class Hill depot and one for a 2nd class Hill depot.						
Knife-cleaning board ...	1	50	1	1	1	2	
Lamp, reading, kerosine, duplex, English, with globe, chimney and punkah-protector complete.	...	...	1	1	2	2	
Lantern for candles ...	...	...	1	1	2	2	

MADRAS SCALE.—(Continued).

Scale of Hospital Equipment authorized to be issued to British Troops by the Commissariat or other Department in Cantonments and Quarters.

1	2	3	4	5	6	7	8	9
Description of Articles.	Scale.		Number of each Article (calculated for 12 per Cent. of Sick on the authorised Strength) to be kept complete and serviceable in Purveyor's Store.				Remarks.	Reasons for deviation from the Bengal Scale.
	Proportion.	Sick.	Battery of Royal Horse or Field Artillery.	Battery of Mountain, Garrison or Heavy Artillery, and Company of Royal Engineers.	Regiment of Cavalry or 2nd Class Hill Depot.	Regiment of Infantry or 1st Class Hill Depot.		
SECTION I.								
MISCELLANEOUS ARTICLES. —(Continued.)								
Dusters	...	...	20	10	60	112	Renewals as worn out, without a Board of Survey.	
Foot-warmer	1	50	1	1	1	2		
Gear, well, viz., rope, hemp, pulley, mote, leather, with iron frame.	One each per well, also a yoke to each pair of bullocks.						The gear, with the necessary bullocks, will be supplied during the period tatties are in use. The number of cattle to be employed will be decided by the Annual Committee convened to survey the tatties previous to their issue for use, and the Executive Commissariat Officer will inform the Committee whether any public cattle are available or whether it will be necessary to hire bullocks for the purpose.	
Gumlah, earthen, glazed for Native latrines.	..	...	2	2	4	4	For use in latrines of all hospital huts when these are provided for Native establishments of British Cavalry, Infantry and Artillery. Renewals 15 per cent. monthly.	
Hammer	...	...	...	...	...	...	One for each hospital.	
Jampans, complete ...	Two for a 1st class Hill depot, and one for a 2nd class Hill depot.							
Knife-cleaning board ...	1	50	1	1	1	2		
Lamp, reading, kerosine, duplex, English, with globe, chimney and punkah protector complete.	...	...	1	1	2	2		
Lantern for candles ...	...	..	1	1	2	2		

BENGAL SCALE. TABLE No. 148.—(Continued).

Scale of Hospital Equipment authorized to be issued to British Troops by the Commissariat Department in Cantonments and Quarters.

1	2	3	4	5	6	7	8	
Description of Articles.	Scale.		Number of each Article (calculated for 12 per Cent. of Sick on the authorized Strength) to be kept complete and serviceable in Purveyor's Stores.				Remarks.	
	Proportion.	Sick.	Battery of Royal Horse or Field Artillery.	Battery of Mountain, Garrison or Heavy Artillery and Company of Royal Engineers.	Regiment of Cavalry or 2nd Class Hill Depot.	Regiment of Infantry or 1st Class Hill Depot.		
SECTION I.								
MISCELLANEOUS ARTICLES.								
(Continued).								
Lantern for common oil lamps.	...	...	...	...	...	...	Two for every large, and one for every small, ward and surgery, when kerosine lamps cannot be supplied. One for each passage to latrine and urinary, one for each staircase, one for each latrine and urinary, one for cook-house if specially required by medical officer, one for each hospital for Native followers when occupied.	
Lanterns, kerosine, with hanging chains.	...	...	...	...	...	...	Two for each large, and one for each small, ward or separate room occupied, one for each surgery.	
Looking-glass ...	...	1	10	3	2	6	11	One for each of the main dooors of entrance to the hospital, not exceeding six in all.
Mat door	...	...	...	...	...	...	...	As required.
Nails, iron	...	...	...	...	...	...	...	One for each hospital.
Pail, water (metal)	...	1	20	1	1	3	6	Renewals 10 per cent. monthly.
Pail (Union Jack)	...	...	...	...	...	...	...	One for each close stool chair.
Pan, bread, earthen, glazed, with cover.	1	each	20	11	61	112	...	One for each seat in latrine. Renewals 25 per cent. monthly.
Pan, close stool, crockery (white chinaware).	...	...	...	...	...	...	...	One sheet daily per patient, to include those patients under observation.
Pans, privy, earthen, glazed.	...	...	...	...	...	...	...	For a wing or detachment of Cavalry or Infantry—1 pair.
Paper, country, unglazed, for latrine.	...	...	...	...	...	...	...	As many as may be considered absolutely necessary for inner doors and openings. Not to be supplied when doors or openings are well appointed.
Petarrahs, pair	...	...	1	1	2	2	...	
Purdahs, with ropes for hanging and tying.	...	...	...	...	...	...	...	

MADRAS SCALE.—(Continued).

Scale of Hospital Equipment authorized to be issued to British Troops by the Commissariat or other Department in Cantonments and Quarters.

1	2	3	4	5	6	7	8	9
Description of Articles.	Scale.		Number of each Article (calculated for 12 per Cent. of Sick on the authorised Strength) to be kept complete and serviceable in Purveyor's Store.				Remarks.	Reasons for deviation from the Bengal Scale.
	Proportion.	Sick.	Battery of Royal Horse or Field Artillery.	Battery of Mountain, Garrison or Heavy Artillery, and Company of Royal Engineers.	Regiment of Cavalry or 2nd Class Hill Depot.	Regiment of Infantry or 1st Class Hill Depot.		
SECTION I.								
MISCELLANEOUS ARTICLES.								
(Continued.)								
Lantern for common oil lamps.	...	...	...	...	...	...	Two for every large, and one for every small, ward and surgery, when kerosine lamps cannot be supplied. One for each passage to latrine and urinary, one for each staircase, one for each latrine and urinary, one for cook-house if specially required by medical officer, one for each hospital for Native followers when occupied.	
Lanterns, kerosine, with hanging chains.	...	...	...	...	...	...	Two for each large, and one for each small, ward or separate room occupied, one for each surgery.	
Looking-glass ...	1	10	3	2	6	11	One for each of the main doors of entrance to the hospital, not exceeding six in all.	
Mat, door	...	...	...	...	...	...	As required.	
Nails, iron	...	...	...	...	...	...	One for each hospital.	
Pail, water (metal)	1	20	1	1	3	6	Renewals 10 per cent. monthly	
Pail (Union Jack)	...	...	...	...	...	...	One for each close stool chair.	
Pan, bread, earthen, glazed, with cover.	1	each	20	11	61	112	One for each seat in latrine. Renewals 25 per cent. monthly.	
Pan, close stool, crockery (white chinaware).	...	...	...	...	...	...	One sheet daily per patient, to include those patients under observation.	
Pans, privy, earthen, glazed.	...	...	...	...	...	...	For a wing or detachment of Cavalry or Infantry—1 pair.	
Paper, country, unglazed, for latrine.	...	...	...	...	...	...	As many as may be considered absolutely necessary for inner doors and openings. Not to be supplied when doors or openings are well appointed.	
Petarrahs, pair...	...	...	1	1	2	2		
Purdahs, with ropes for hanging and tying.	...	...	...	...	...	...		

BENGAL SCALE. TABLE No. 148.—(Continued).

Scale of Hospital Equipment authorized to be issued to British Troops by the Commissariat Department in Cantonment and Quarters.

1	2	3	4	5	6	7	8
Description of Articles.	Scale.		Number of each Article (calculated for 12 per Cent. of Sick on the authorized Strength) to be kept complete and serviceable in Purveyor's Store.				Remarks.
	Proportion.	Sick.	Battery of Royal Horse or Field Artillery.	Battery of Mountain, Garrison or Heavy Artillery and Company of Royal Engineers.	Regiment of Cavalry or 2nd Class Hill Depot.	Regiment of Infantry or 1st Class Hill Depot.	
SECTION I.							
MISCELLANEOUS ARTICLES							
—(Continued).							
Rope, cotton ...	...	...	...	...	...	...	As required.
Scissors of country manufacture.	One pair per hospital building when kerosine lamps are burned.						To trim the wicks of kerosine lamps. To be renewed after four years, if unserviceable.
Spoon, medicine, Wedgewood-ware, graduated inside for tea, dessert and table spoons.	2	5	8	4	24	45	
Stomach-warmer ...	1	50	1	1	1	2	
Tape, broad, country, yards.	...	...	...	...	...	...	As required, for strings for patients' drawers and trowsers.
Tin, fomenting ...	...	...	2	2	4	4	
Tin for cooking poultices.	...	...	2	2	2	2	
Trays, earthen, glazed	One pair earthen glazed urinal.						Renewals 8 per cent. monthly on numbers in use.
Trap, rat ...	...	...	...	...	...	...	One for each hospital.
Tray, tin, for spreading poultices.	...	...	2	2	2	2	
Tub, $\frac{1}{2}$ cask, for receiving foul linen.	1	50	1	1	2	2	
Tub, $\frac{1}{2}$ cask, for bathing, painted	...	...	1	1	2	2	Or one for each private lavatory where such exist.
Tub, $\frac{1}{2}$ cask, with lids ...	...	...	...	...	...	...	Three for each wash-room. For holding water for washing.
Tub, 18-gallon size ...	1	50	1	1	2	2	For washing cooking utensils.
Urinal, earthen, glazed	...	...	2	2	4	6	Renewals 20 per cent. monthly.
Weighing machine chair	...	...	...	...	...	...	One for each hill depot hospital.
Wick-holder, tin ...	...	...	...	...	...	...	One for each common oil burner.

MADRAS SCALE.—(Continued).

List of Hospital Equipment authorized to be issued to British Troops by the Commissariat or other Department in Cantonments and Quarters.

1	2	3	4	5	6	7	8	9
Description of Articles.	Scale.		Number of each Article (calculated for 12 per Cent. of Sick on the authorised Strength) to be kept complete and serviceable in Purveyor's Store.				Remarks.	Reasons for deviation from the Bengal Scale.
	Proportion.	Sick.	Battery of Royal Horse or Field Artillery.	Battery of Mountain, Garrison or Heavy Artillery and Company of Royal Engineers.	Regiment of Cavalry or 2nd Class Hill Depot.	Regiment of Infantry or 1st Class Hill Depot.		
SECTION I.								
MISCELLANEOUS ARTICLES.								
(Continued).								
Razors ...	...	...	1	1	...	...	As required.	As per G.O., No. 898, of 18th March 1874, and No. 3667 of 11th Nov. 1874.
Rope, cotton ...	...	...	...	...	...	...	To trim the wicks of kerosine lamps. To be renewed after four years, if unserviceable.	
Scissors of country manufacture.	One pair per hospital building when kerosine lamps are burned.							
Spoon, medicine, Wedgewood ware, graduated inside for tea, dessert and table spoons.	2	5	8	4	24	45		
Stomach warmer ...	1	50	1	1	1	2		
Tape, broad, country, yards.	...	...	...	...	...	...	As required, for strings for patients' drawers and trowsers.	
Tin, fomenting ...	...	...	2	2	4	4		
Tin for cooking poultices	...	...	2	2	2	2		
Trays, earthen, glazed...	One pair earthen glazed urinal.						Renewals 8 per cent. monthly on numbers in use.	
Trap, rat ...	...	...	...	...	...	...	One for each hospital.	
Tray, tin, for spreading poultices.	...	...	2	2	2	2		
Tub, $\frac{1}{2}$ cask, for receiving foul linen.	1	50	1	1	2	2		
Tub, $\frac{1}{2}$ cask, for bathing, painted.	...	...	1	1	2	2	Or one for each private lavatory where such exist.	
Tub $\frac{1}{2}$ cask, with lids ...	...	...	...	...	...	...	Three for each wash-room. For holding water for washing	
Tub, 18-gallon size ...	1	50	1	1	2	2	For washing cooking utensils.	
Urinal, earthen, glazed	...	...	2	2	4	6	Renewals 20 per cent. monthly.	
Weighing machine chair	...	...	...	...	...	...	One for each hill depot hospital.	
Wick-holder, tin	...	...	...	...	...	...	One for each common oil burner.	

BENGAL SCALE. TABLE No. 148.—(Continued).

Scale of Hospital Equipment authorized to be issued to British Troops by the Commissariat Department in Cantonments and Quarters.

1	2	3	4	5	6	7	8
Description of Articles.	Scale.		Number of each Article (calculated for 12 per Cent. of Sick on the authorized Strength), to be kept complete and serviceable in Purveyor's Store.				Remarks.
	Proportion.	Sick.	Battery of Royal Horse or Field Artillery.	Battery of Mountain, Garrison or Heavy Artillery, and Company of Royal Engineers.	Regiment of Cavalry or 2nd Class Hill Depot.	Regiment of Infantry or 1st Class Hill Depot.	
SECTION II.							
RECREATION GAMES.							
Backgammon board, with men, dice, and dice boxes.	...	...	1 set	1 set	2 sets	2 sets	The scale of recreation games allowed to batteries of Royal Artillery will be supplied to all detached hospitals.
Chessmen, with board ...	...	...	1	1	1	1	
Dominoes ...	...	...	1	1	2	4	
Draught board with men ...	...	...	2	2	3	4	
SECTION III.							
COOKING UTENSILS.							
Boilers, copper, with covers, large, medium and small in nests.	1	14	2 sets	1 set	5 sets	8 sets	One for each hospital.
Can, milk, marked in pints.	1	33	1	1	2	3	
Chopper...	...	...	...	...	...	...	
Flour dredger, 1 pint size.	1	50	1	1	1	2	
Fork, flesh ...	1	50	1	1	1	2	Do. do.
Fork, toasting ...	1	50	1	1	2	2	
Funnel ...	1	50	1	1	1	2	
Grater, nutmeg...	...	...	...	...	...	...	
Gridiron, English ...	...	...	...	...	...	...	Do. do.
Kettle, tea, iron, 2-gallon size.	...	...	2	2	2	4	
Kettle, tea, iron, 1-gallon size.	...	...	2	2	2	4	
Measure, milk, 1-pint ...	...	...	...	...	...	...	
Do. ½ pint ...	...	...	...	...	...	...	Two for each hospital.
Do. 3 ozs. ...	...	...	...	...	...	...	
Pan, frying, English ...	1	50	1	1	1	2	
Sauce-pan, 1 quart ...	...	...	...	3	4	5	
Do. 1 pint ...	...	...	1	1	1	1	Do. do.
Shape, pudding, oblong, metal, with tin tray for putting over the dish.	2	5	8	4	24	45	

MADRAS SCALE.—(Continued).

List of Hospital Equipment authorized to be issued to British Troops by the Commissariat or other Department in Cantonments and Quarters.

1	2	3	4	5	6	7	8	9
Description.	Scale.		Number of each Article (calculated for 12 per Cent. of Sick on authorized Strength) to be kept complete and serviceable in Purveyor's Store.				Remarks.	Reasons for deviation from the Bengal Scale.
	Proportion.	Sick.	Battery of Royal Horse or Field Artillery.	Battery of Mountain, Garrison or Heavy Artillery, and Company of Royal Engineers.	Regiment of Cavalry or 2nd Class Hill Depot.	Regiment of Infantry or 1st Class Hill Depot.		
SECTION II.								
RECREATION GAMES.								
Backgammon board with men, dice and dice boxes.	...	...	1 set	1 set	2 sets	2 sets	The scale of recreation games allowed to batteries of Royal Artillery will be supplied to all detached hospitals.	
Chessmen, with board	...	...	1	1	1	1		
Dominoes	...	...	1	1	2	4		
Draught board with men	...	...	2	2	3	4		
SECTION III.								
COOKING UTENSILS.								
Boilers, copper, with covers, large, medium and small in nests.	1	14	2 sets	1 set	5 sets	8 sets	One for each hospital.	
Can, milk, marked in pints	1	33	1	1	2	3		
Chopper	...	...	...	...	...	...		
Flour dredger, 1 pint size.	1	50	1	1	1	2		
Fork, flesh	...	...	1	1	1	2	Do. do. Do. do.	
Fork, toasting	...	...	1	1	2	2		
Funnel	...	...	1	1	1	2		
Grater, nutmeg	...	...	...	...	...	...		
Gridiron, English	...	...	...	...	...	...	Do. do. Do. do.	
Kettle, tea, iron, 2-gallon size.	...	...	2	2	2	4		
Kettle, tea, iron, 1-gallon size.	...	...	2	2	2	4		
Measure, milk, 1 pint	...	...	...	...	...	...		
Do. 1 pint	...	...	...	...	...	...	Two for each hospital.	
Do. 3 ozs.	...	...	...	...	...	...		
Pan, frying, English	1	50	1	1	1	2		
Sauce-pan, 1 quart	...	...	...	3	4	5		
Do. 1 pint	...	...	1	1	1	1	Do. do.	
Shape, pudding, oblong, metal, with tin tray for putting over the dish.	2	5	8	4	24	45		

BENGAL SCALE. TABLE No. 148.—(Continued).

Scale of Hospital Equipment authorized to be issued to British Troops by the Commissariat Department, in Cantonments and Quarters.

Cantonments and Quarters.							
1	2	3	4	5	6	7	8
Description of Articles.	Scale.		Number of each Article (calculated for 12 per Cent. of Sick on the authorized Strength) to be kept complete and serviceable in Purveyor's Store.				Remarks.
	Proportion.	Sick.	Battery of Royal Horse or Field Artillery.	Battery of Mountain, Garrison or Heavy Artillery, and Company of Royal Engineers.	Regiment of Cavalry or 2nd Class Hill Depot.	Regiment of Infantry or 1st Class Hill Depot.	
SECTION III.							
COOKING UTENSILS.— (Continued).							
Soup-can, 2 gallons ...	1	20	...	...	3	5	
Do. 1 gallon ...	1	10	1	1	1	1	
Soup-ladle, pint ..	..	...	1	1	1	2	
Squeezer, lemon ...	...	...	...	...	...	...	One for each hospital.
SECTION IV.							
DIET AND TABLE REQUISITES.							
Basin, pint, crockery, with lids for soup or tea (white chinaware).	1	each	20	11	61	112	
Cup, egg, crockery (white chinaware).	3	10	6	3	18	33	
Dish, meat and potato...	1	6	4	2	10	18	
Fork, steel, with buck-horn handles.	1	each	20	11	61	112	
Glass, tumbler, wine or spirit.	2	5	8	5	24	45	
Knife, steel, buck-horn handles.	1	each	20	11	61	112	
Measure, wine, double, and 1 oz.	...	...	...	...	...	...	Two for each hospital.
Measure, wine, double, and 4 ozs.	...	...	...	...	...	...	Do. do.

MADRAS SCALE.—(Continued).

Scale of Hospital Equipment authorized to be issued to British Troops by the Commissariat or other Department.

1	2	3	4	5	6	7	8	9
Description of Articles.	Scale.		Number of each Article (calculated for 12 per Cent. of Sick on the authorised Strength) to be kept complete and serviceable in Purveyor's Store.				Remarks.	Reasons for deviation from the Bengal Scale.
	Proportion.	Sick.	Battery of Royal Horse or Field Artillery.	Battery of Mountain, Garrison or Heavy Artillery, and Company of Royal Engineers.	Regiment of Cavalry or 2nd Class Hill Depot.	Regiment of Infantry or 1st Class Hill Depot.		
SECTION III.								
COOKING UTENSILS.— (Continued.)								
Soup-can, 2 gallons ...	1	20	...	...	3	5		
Do. 1 gallon ..	1	10	1	1	1	1		
Soup-ladle, pint ...	...	...	1	1	1	2		
Squeezer, lemon ...	...	...	...	...	...	...	One for each hospital.	
SECTION IV.								
DIET AND TABLE REQUISITES.								
Basin, pint, crockery, with lids for soup or tea (white chinaware).	1	each	20	11	61	112		
Cup, egg, crockery (white chinaware.)	3	10	6	3	18	33		
Dish, meat and potato...	1	6	4	2	10	18		
Fork, steel, with buck-horn handles.	1	each	20	11	61	112		
Glass, tumbler, wine or spirit.	2	5	8	5	24	45		
Knife, steel, buck-horn handles.	1	each	20	11	61	112		
Measure, wine, double, $\frac{1}{2}$ and 1 oz.	...	...	...	...	...	...	Two for each hospital.	
Measure, wine, double, 2 and 4 ozs.	...	...	...	...	...	...	Do. do.	

BENGAL SCALE. TABLE No. 148.—(Continued).

Scale of Hospital Equipment authorized to be issued to British Troops by the Commissariat Department, in Cantonments and Quarters.

1	2	3	4	5	6	7	8
Description of Articles.	Scale.		Number of each Article (calculated for 12 per Cent. of Sick on the authorized Strength) to be kept complete and serviceable in Purveyor's Store.				Remarks.
	Proportion.	Sick.	Battery of Royal Horse or Field Artillery.	Battery of Mountain, Garrison or Heavy Artillery and Company of Royal Engineers.	Regiment of Cavalry or 2nd Class Hill Depot.	Regiment of Infantry or 1st Class Hill Depot.	
SECTION IV.							
DIET AND TABLE REQUISITES.—(Continued).							
Mug, pint, crockery (white chinaware).	1	each	20	11	61	112	Thirty per wing of Infantry. The supply to depots will be regulated according to their size.
Mug, pint, pewter, for malt liquor.	2	5	8	5	24	45	
Pepper-caster ...	1	12	2	1	5	9	
Plates, butter, small (white chinaware).	...	...	15	15	30	50	
Plates, crockery (white chinaware).	3	2	30	16	91	168	
Pot, tea, crockery, small (white chinaware).	1	7	3	2	9	16	
Salt-cellar, glass or crockery (white chinaware).	1	each	20	11	61	112	
Spoon, egg, nickel silver	3	10	6	3	18	33	
Spoon, dessert, nickel, silver.	1	each	20	11	61	112	
Spoon, tea, nickel, silver	1	each	20	11	61	112	
Table-cloth, white, for dining table.	1	5	4	2	12	22	Two for each hospital. { To be made according to size of tables with a fall of one foot-and-a-half on each side.
Table-cloth, green baize, for recreation and reading tables.	...	...	...	...	...	...	

MADRAS SCALE.—(Continued).

Scale of Hospital Equipment authorized to be issued to British Troops by the Commissariat or other Department.

1	2	3	4	5	6	7	8	9
Description of Articles.	Scale.		Number of each Article (calculated for 12 per Cent. of Sick on the authorised Strength) to be kept complete and serviceable in Purveyor's Store.				Remarks.	Reasons for deviation from the Bengal Scale.
	Proportion.	Sick.	Battery of Royal Horse or Field Artillery.	Battery of Mountain, Garrison or Heavy Artillery, and Company of Royal Engineers.	Regiment of Cavalry or 2nd Class Hill Depot.	Regiment of Infantry or 1st Class Hill Depot.		
SECTION IV.								
DIET AND TABLE REQUISITES.—(Contd.)								
Mug, pint, crockery (white chinaware.)	1	each	20	11	61	112	Thirty per wing of Infantry. The supply to depots will be regulated according to their size.	
Mug, pint, pewter, for malt liquor.	2	5	8	5	24	45		
Pepper-caster ...	1	12	2	1	5	9		
Plates, butter, small (white chinaware.)	1	...	15	15	30	50		
Plates, crockery (white chinaware.)	3	2	30	16	91	168		
Pot, tea, crockery, small (white chinaware.)	1	7	3	2	9	16		
Salt-cellar, glass or crockery (white chinaware)	1	each	20	11	61	112		
Spoon, egg, nickel, silver	3	10	6	3	18	33		
Spoon, dessert, nickel, silver.	1	each	20	11	61	112		
Spoon, tea, nickel silver	1	do.	20	11	61	112		
Table-cloth, white, for dining table.	1	5	4	2	12	22	Two for each hospital.	To be made according to size of tables with a fall of one foot-and-a-half on each side.
Table-cloth, green, baize for recreation and reading tables.	...	...	...	..	...	...		

BENGAL SCALE. TABLE NO. 148.—(Continued).

Scale of Hospital Equipment authorized to be issued to British Troops by the Commissariat Department in Cantonments and Quarters.

1	2	3	4	5	6	7	8	9
Description of Articles.	Scale.		Number of each Article (calculated for 12 per Cent. of Sick on the authorized Strength) to be kept complete and Serviceable in Purveyor's Store.					Remarks.
	Proportion.	Sick.	Battery of Royal Horse or Field Artillery.	Battery of Mountain, Garrison or Heavy Artillery and Company of Royal Engineers.	Regiment of Cavalry or 2nd Class Hill Depot.	Regiment of Infantry or 1st Class Hill Depot.	Reserve Percentages on the foregoing Numbers to be kept in the Commissariat Store.	
SECTION V.								
HOSPITAL CLOTHING.								
Men.								
Belts, flannel	3	2	27	15	82	150	20	For use of men whose heads may have been shaved.
Caps, blue flannel, lined	1	10	2	1	5	10	20	
Comforters, knitted, woollen.*†	1	10	2	1	5	10	20	For cases of sore throat, consumption, &c.
Drawers, cotton ..	3	each	54	30	165	300	20	
Drawers, flannel*† ...	3	2	27	15	82	150	20	
Gowns, long, woollen ...	1	each	18	10	55	100	20	
Handkerchiefs, pocket...	2	each	36	20	110	200	...	
Jacket, light, woollen ..	1	each	18	10	55	100	20	
Napkins, small, for Ophthalmia.	2	5	7	4	22	40	..	
Shirts, cotton	3	each	54	30	165	300	30	
Slippers, leather ...	1	each	18	10	55	100	20	
Socks, cotton, English, pairs.	2	each	36	20	110	200	20	
Socks, worsted, English, pairs.	2	each	36	20	110	200	20	
Towels, hand	2	each	36	20	110	200	20	
Trowsers, light, woollen	1	each	18	10	55	100	20	
Trowsers, warm, woollen	1	each	18	10	55	100	20	
Vests, flannel	3	2	27	15	82	150	30	
Waistcoat, sleeved, woollen.*	1	each	18	10	55	100	20	
Waistcoat, straight ...	1	50	1	1	1	2	...	

*Comforters, drawers, flannel, and waistcoat, sleeved, allowed in addition to ordinary clothing at Hill stations, and Peshawar, Nowshera, Attock, Campbellpore and Rawal Pindi.

†Comforters and drawers, flannel, only, in addition to ordinary clothing at Dera Ismail Khan, Meean Meer, Ferozepore, Mooltan, Sialkot, Jullundur, Umballa, Boree, Meerut, Delhi, Moradabad, Bareilly, Shahjehanpur, Sitapur, Fatehgarh, Muttra, Agra, Gwalior, Morar, Lucknow, Fyzabad, Cawnpore and Amritsar.

NOTE I.—The above clothing to be made up of two sizes—one suitable for men of 5 feet 6 inches and under, and one for men over that height, in the proportion of two-thirds of the former size and one-third of the latter.

II.—The flannel and serge required for the different articles of clothing will be well shrunk before being made up.

MADRAS SCALE.—(Continued).

Scale of Hospital Equipment authorized to be issued to British Troops by the Commissariat or other Department, in Cantonments and Quarters.

1	2	3	4	5	6	7	8	9	10
Description of Articles.	Scale.		Number of each Article (calculated for 12 per Cent. of Sick on the authorised Strength) to be kept complete and serviceable in Purveyor's Store.					Remarks.	Reasons for deviation from the Bengal Scale.
	Proportion.	Sick.	Battery of Royal Horse or Field Artillery.	Battery of Mountain, Garrison or Heavy Artillery and Company of Royal Engineers.	Regiment of Cavalry or 2nd Class Hill Depot.	Regiment of Infantry or 1st Class Hill Depot.	Reserve Percentages on the foregoing Numbers to be kept in the Commissariat Store.		
SECTION V.									
HOSPITAL CLOTHING.									
Men.									
Belts, flannel	3	2	27	15	82	150	20	For use of men whose heads may have been shaved.	
Caps, hospital	1	10	2	1	5	10	20		
Comforters, knitted, woollen.*†	1	10	2	1	5	10	20	For cases of sore throat, consumption, &c.	
Drawers, cotton	3	each	54	30	165	300	20		
Drawers, flannel*† ...	3	2	27	15	82	150	20		
Gowns, long, woollen ...	1	each	18	10	55	100	20		
Handkerchiefs, pocket...	2	each	36	20	110	200	...		
Jackets, light, woollen...	1	each	18	10	55	100	20		
Napkins, small, for Ophthalmia.	2	5	7	4	22	40	...		
Shirts, cotton	3	each	54	30	165	300	30		
Slippers, pairs	1	each	18	10	55	100	20		
Socks, cotton, English, pairs.	2	each	36	20	110	200	20		
Socks, worsted, English, pairs.	2	each	36	20	110	200	20		
Towels, hand	2	each	36	20	110	200	20		
Trowsers, light, woollen	1	each	18	10	55	100	20		
Trowsers, warm, woollen	1	each	18	10	55	100	20		
Vests, flannel	3	2	27	15	82	150	30		
Waistcoat, sleeved* ...	1	each	18	10	55	100	22		
Waistcoat, straight ...	1	50	1	1	1	2	...		

* Comforters, drawers, flannel, and waistcoat, sleeved, allowed in addition to ordinary clothing at Hill stations of Wellington, Raman-droog and stations in Burmah.

† Comforters and drawers, flannel, only, in addition to ordinary clothing at Kamptee, Secunderabad and Bangalore.

NOTE I.—The above clothing is to be made up of two sizes—one suitable for men of 5 feet 6 inches and under, and one for men over that height, in the proportion of two-thirds of the former size and one-third of the latter.

II.—The flannel and serge required for the different articles of clothing will be well shrunk before being made up.

BENGAL SCALE.—TABLE No. 148.—(Continued).

Scale of Hospital Equipment authorized to be issued to British Troops by the Commissariat Department in Cantonments and Quarters.

1	2	3	4	5	6	7	8	9	
Description of Articles.	Scale.		Number of each Article (calculated for 12 per Cent. of Sick on the authorized Strength) to be kept complete and serviceable in Purveyor's Store.				Reserve Percentage on the foregoing Numbers to be kept in the Commissariat Store.	Remarks.	
	Proportion.	Sick.	Battery of Royal Horse or Field Artillery.	Battery of Mountain, Garrison or Heavy Artillery, and Company of Royal Engineers.	Regiment of Cavalry or 2nd Class Hill Depot.	Regiment of Infantry or 1st Class Hill Depot.			
SECTION V.									
HOSPITAL CLOTHING.—									
(Continued.)									
Women.									
Gowns, long, woollen ...	2	each	4	2	12	24	20	The flannel and serge required for the different articles of clothing will be well shrunk before being made up.	
Gowns, night, long, calico.	3	each	6	3	18	36	30		
Gowns, short, calico ...	2	each	4	2	12	24	20		
Handkerchiefs, pocket	5	2	5	2	15	30	...		
Napkins, small, for Ophthalmia.	2	5	1	1	2	5	...		
Petticoats, calico ...	2	each	4	2	12	24	20		
Do. flannel ...	2	each	4	2	12	24	20		
Shifts, calico ...	4	each	8	4	24	48	30		
Do. flannel, under ...	3	each	6	3	18	36	30		
Slippers, pairs ...	1	each	2	1	6	12	20		
Stockings, cotton, pairs	3	each	6	3	18	36	20		
Do. worsted, pairs	3	each	6	3	18	36	20		
Towels, hand ...	2	each	4	2	12	24	20		
Children.									
Drawers, flannel, boys*	2	each	8	8	12	24	20		
Gowns, long, cotton ..	3	each	12	12	18	36	20		
Do. do. woollen...	2	each	8	8	12	24	20		
Petticoats, flannel, girls*	2	each	8	8	12	24	20		
Shirts, night, cotton ...	4	each	16	16	24	48	30		
Do. do. flannel ...	3	each	12	12	18	36	30		
Slippers, pairs ...	1	each	4	4	6	12	20		
Stockings, half cotton, pairs.	3	each	12	12	18	36	20		
Do. do. worsted pairs	2	each	8	8	12	24	20		

* Flannel drawers and flannel petticoats will only be supplied at Hill Stations, and Peshawar, Nowahera, Attock, Campbellpore, Rawul pindi, Dera Ismail Khan, Meean Meer, Ferozepore, Mooltan, Sialkot, Jullundur, Umballa, Roorkee, Meerut, Delhi, Moradabad, Bareilly, Shajehanpur, Sitapur, Fatehgarh, Muttra, Agra, Gwalior, Morar, Lucknow, Fyzabad, Cawnpore and Amritsar.

NOTE I.—The clothing for children will be made up of three sizes—half of the smallest size suitable for infants under three years of age, the remaining half to be of two sizes suitable for children of six and nine years of age, in about equal proportions.

II.—The flannel and serge required for the different articles of clothing will be well shrunk before being made up.

III.—The clothing for women will be made up of two sizes—two-thirds suitable for women of 5 feet 3 inches and under, and one-third suitable for women over that height.

MADRAS SCALE.—(Continued).

Scale of Hospital Equipment authorized to be issued to British Troops by the Commissariat or other Department, in Cantonments and Quarters.

1	2	3	4	5	6	7	8	9	10		
Description of Articles.	Scale.		Number of each Article (calculated for 12 per Cent. of Sick on the authorized Strength) to be kept complete and serviceable in Purveyor's Store.				Remarks.	Reason for deviation from the Bengal Scale.			
	Proportion.	Sick.	Battery of Royal Horse or Field Artillery.	Battery of Mountain, Garrison or Heavy Artillery, and Company of Royal Engineers.	Regiment of Cavalry or 2nd Class Hill Depot.	Regiment of Infantry or 1st Class Hill Depot.			Reserve Percentages on the foregoing Numbers to be kept in the Commissariat Store.		
SECTION V.											
HOSPITAL CLOTHING.—											
(Continued.)											
Women.											
Gowns, long, warm ...	2	each	4	2	12	24	20	The flannel and serge required for the different articles of clothing will be well shrunk before being made up.			
Gowns, night, long, cotton.	3	each	6	3	18	36	30				
Gowns, short, calico ...	2	each	4	2	12	24	20				
Handkerchiefs, pocket...	5	2	5	2	15	30	...				
Napkins, small, for Ophthalmia.	2	5	1	1	2	5	...				
Petticoats, calico ...	2	each	4	2	12	24	20				
Do. flannel ...	2	each	5	2	12	24	20				
Shifts, calico ...	4	each	8	4	24	48	30				
Do flannel, under...	3	each	6	3	18	36	30				
Slippers, pairs ...	1	each	2	1	6	12	20				
Stockings, cotton, pairs	3	each	6	3	18	36	20				
Do. worsted, pairs...	3	each	6	3	18	36	20				
Towels, hand ...	2	each	4	2	12	24	20				
Children.											
Drawers, flannel, boys*	2	1	8	8	12	24	20				
Gowns, long, cotton ...	3	1	12	12	18	36	20				
Do. do. woollen ...	2	1	8	8	12	24	20				
Petticoats, flannel, girls*	2	1	8	8	12	24	20				
Shirts, night, cotton ...	4	1	16	16	24	48	30				
Do. do. flannel ...	3	1	12	12	18	36	30				
Slippers, pairs ...	1	1	4	4	6	12	20				
Stockings, half cotton	3	1	12	12	18	36	20				
Do. do. worsted	2	1	8	8	12	24	20				

* Flannel drawers and flannel petticoats will be supplied at Stations for which warm drawers for men are allowed (O.G., No. 6985, dated 18th December 1877.)

NOTE I.—The clothing for children will be made up of three sizes—half of the smallest size suitable for infants under three years of age, the remaining half to be of two sizes suitable for children of six and nine years of age, in about equal proportions.

II.—The flannel and serge required for the different articles of clothing will be well shrunk before being made up.

III.—The clothing for women will be made up of two sizes—two-thirds suitable for women of 5 feet 3 inches and under, and one-third suitable for women over that height.

BENGAL SCALE. TABLE No. 148.—(Continued).

Scale of Hospital Equipment authorised to be issued to British Troops by the Commissariat Department in Cantonments and Quarters.

Cantonments and Quarters.								
1	2	3	4	5	6	7	8	9
Description of Articles.	Scale.		Number of each Article (calculated for 12 per Cent. of Sick on the authorized Strength) to be kept complete and serviceable in Purveyor's Store.				Reserve Percentages on the foregoing Number to be kept in the Commissariat Store.	Remarks.
	Proportion.	Sick.	Battery of Royal Horse or Field Artillery.	Battery of Mountain, Garrison or Heavy Artillery, and Company of Royal Engineers.	Regiment of Cavalry or 2nd Class Hill Depot.	Regiment of Infantry or 1st Class Hill Depot.		
SECTION VI.								
BEDDING.								
<i>Men, Women and Children.</i>								
Blankets, English, white, weight, 5 lb., 7 × 5 ft.	2	each	48	26	146	272	20	
Counterpanes, white, plain, 7 × 5 feet.	1	each	24	13	73	136	20	
Curtains, musquito, with frames complete.	1	each	24	13	73	136	...	For stations in the Eastern Frontier and Presidency Districts only.
Handles, with cords ..	1	12	2	1	5	9	...	For bed-ridden patients. Not sanctioned for children.
Mattresses, cocoanut fibre.*	1	each	24	13	73	136	20	Length 6' 6," breadth 3' 3", height of side piece, 3 inches; coir stuffing per mattress, 30 lb.
Pillows, cocoanut fibre or horse-hair, large.†	1	each	24	13	73	136	20	The stuffing to be of coir 3 lb. 3 oz., or horse-hair, according to circumstance and the relative price of the two articles; size when made up 3' 3" × 1' 3".
Pillows, cotton, small‡.	1	each	24	13	73	136	20	About 2½ lb. of cotton will be required for the stuffing; size when made up 2' 2" × 10¼".
Pillow covers, large ...	2	each	48	26	146	272	30	
Do. do. small ...	2	each	48	26	146	272	30	
Rugs, bedside, 4 × 2 feet	1	each	24	13	73	136	...	
Sheets, cotton, 7 × 5 do.	4	each	96	52	292	544	30	

* The cases for mattresses will be made of duck, and be provided with side pieces.
† The cases for cocoanut fibre or horse-hair pillows will be made of duck. The length of the pillow when made up should measure the breadth of the mattress, and be 1½ foot in width. The size of the pillow will be 3' 3" × 1' 3".
‡ The cases for cotton pillows will be made of duck. The pillow when made up should measure two-thirds the size of the large pillow, or 2 feet 2 inches by 10½ inches.

NOTES ON HOSPITAL EQUIPMENT GENERALLY.

I.—When the percentage of sick in any hospital exceeds that for which equipment is authorised to be kept in store, a further supply, sufficient to meet the requirements of the extra sick according to the scale given in Columns 2 and 3, will be provided by the Commissariat Department, without reference to superior authority.

II.—Cloth and thread required for repairs for the different articles of clothing and bedding will be supplied direct to purveyors by the Commissariat Department.

MADRAS SCALE.—(Continued).

Scale of Hospital Equipment authorized to be issued to British Troops by the Commissariat or other Department in Cantonments and Quarters.

1	2	3	4	5	6	7	8	9	10
Description of Articles.	Scale.		Number of each Article (calculated for 12 per Cent. of Sick on the authorized Strength) to be kept complete and serviceable in Purveyor's Store.				Reserve Percentages on the foregoing Number to be kept in the Commissariat Store.	Remarks.	Reasons for deviation from the Bengal Scale.
	Proportion.	Sick.	Battery of Royal Horse or Field Artillery.	Battery of Mountain, Garrison or Heavy Artillery and Company of Royal Engineers.	Regiment of Cavalry or 2nd Class Hill Depot.	Regiment of Infantry or 1st Class Hill Depot.			
SECTION VI.									
BEDDING.									
<i>Men, Women and Children.</i>									
Blankets, English, white, weight 5 lb., 7×5 ft.	2	each	48	26	146	272	20		
Counterpanes, white, plain, 7×5 feet.	1	each	24	13	73	136	20		
Curtains, musquito, with frames complete.	1	each	24	13	73	136	...	For stations in Burmah and the Presidency District only.	
Handles, with cords ...	1	12	2	1	5	9	...	For bed-ridden patients. Not sanctioned for children.	
Mattresses, cocoanut fibre.*	1	each	24	13	73	136	20	Length, 6' 6", breadth 3' 3", height of side piece, 3 inches; coir stuffing per mattress, 30 lb.	
Pillows, cocoanut fibre or horse-hair, large.†	1	each	24	13	73	136	20	The stuffing to be of coir, 3 lb. 3 oz., or horse-hair, according to circumstances and the relative price of the two articles; size when made up 3' 3" × 1' 3".	
Pillows, cotton, small‡	1	each	24	13	73	136	20	About 2½ lb. of cotton will be required for the stuffing; size when made up 2' 2" × 10½"	
Pillow covers, large ...	2	each	48	26	146	272	30		
Do. do. small ...	2	each	48	26	146	272	30		
Rugs, bedside, 4×2 feet	1	each	24	13	73	136	...		
Sheets, cotton, 7×5 do.	4	each	96	52	292	544	30		

* The cases for mattresses will be made of duck, and be provided with side pieces.

† The cases for cocoanut fibre or horse-hair pillows will be made of duck. The length of the pillow when made up should measure the breadth of the mattress, and be 1½ foot in width. The size of the pillow will be 3' 3" × 1' 3".

‡ The cases for cotton pillows will be made of duck. The pillow when made up should measure two-thirds the size of the large pillow, or 2 feet 2 inches by 10½ inches.

NOTES ON HOSPITAL EQUIPMENT GENERALLY.

I.—When the percentage of sick in any hospital exceeds that for which equipment is authorised to be kept in store, a further supply, sufficient to meet the requirements of the extra sick, according to the scale given in Columns 2 and 3, will be provided by the Commissariat Department, without reference to superior authority.

II.—Cloth and thread required for repairs for the different articles of clothing and bedding will be supplied direct to purveyors by the Commissariat Department.

BENGAL SCALE. TABLE NO. 148.—(Continued).

Scale of Hospital Equipment authorized to be issued to British Troops on the Line of March from one Station to another.

1	2	3	4	5
Description of Articles.	Scale.		Number of each Article to be kept complete and serviceable in charge of the Purveyor accompanying the Troops.	Remarks.
	Proportion.	Sick.		
SECTION I.				
MISCELLANEOUS ARTICLES.				
Basins, wash-hand, metal, small.	1	5	For 5 per cent. of sick on strength.	
Candlestick	...	...	One for each hospital.	
Chamber-pot with cover, enamel.	1	25	For 5 per cent. of sick on strength.	
Cork-screw	...	...	One for each hospital.	
Dusters	1	each	For 5 per cent. of sick on strength.	
Funnel, tin... ..	...	...	One for each hospital... ..	For decanting wine and spirits.
Kujawabs	...	...	Two per hospital.	
Lantern for candles ...	1	25	For 5 per cent. of sick on strength.	
Measure, wine, double, 2 and 4 oz.	...	...	One for each hospital... ..	For measuring wine and spirits.
Pan, for close stool chair (commode) copper.	...	...	One for each close-stool sanctioned.	To be of the same shape and size as the crockery pan. To be tinned twice a-month.
Pan, stool, with cover, copper, nested.	1	10	For 5 per cent. of sick on strength.	To be tinned twice a-month.
Paper, country, unglazed ...	...	..	One sheet daily per patient; to include patients under observation.	For use in latrine.
Petarrabs, with trays, tin ...	...	...	One pair for each battery of Royal Artillery; two pairs for each regiment of Cavalry and Infantry; and one pair for a detached wing, or for a detachment of any less strength.	
Rope, cotton or hair	...	...	As required	Required for packing.
Sulletabs, with ropes	...	..	Do.	For packing bedding.
Tape, broad, country	...	...	Do.	For drawers and trowser strings.
Tarpaulins	...	...	Do.	For protecting all hospital stores.
Tin, fomenting	1	10	For 5 per cent. of sick on strength.	
SECTION II.				
COOKING UTENSILS.				
Boilers, copper, with covers, large, medium and small, nested.	1 set	25	For 5 per cent. of sick on strength.	
Fork, flesh	1	25	For 5 per cent. of sick on strength.	For kitchen purposes.
Gridiron	...	...	One for each hospital.	

NOTE.—It is not intended that serviceable articles in use should be replaced, because they are not of the pattern now ordered. The new articles will not be introduced until the existing stock is used up.

MADRAS SCALE.—(Continued).

Scale of Hospital Equipment authorized to be issued to British Troops on the Line of March from one Station to another.

1	2	3	4	5	6
Description of Articles.	Scale.		Number of each Article to be kept complete and serviceable in charge of the Purveyor accompanying the Troops.	Remarks.	Reasons for deviation from the Bengal Scale.
	Proportion.	Sick.			
SECTION I.					
MISCELLANEOUS ARTICLES.					
Basins, wash-hand, metal, small.	1	5	For 5 per cent. of sick on strength.		
Candlestick	...	...	One for each hospital.		
Chamber-pot with cover, enamel.	1	25	For 5 per cent. of sick on strength.		
Cork-screw	...	...	One for each hospital.		
Dusters	1	each	For 5 per cent. of sick on strength.		
Funnel, tin	...	...	One for each hospital ...	For decanting wine and spirits.	
Kajawahs	...	...	Two per hospital.		
Lantern for candles ...	1	25	For 5 per cent. of sick on strength.		
Measure, wine, double, 2 and 4 oz.	...	...	One for each hospital ..	For measuring wine and spirits.	
Pan for close-stool chair (commode) copper.	...	...	One for each close-stool sanctioned.	To be of the same shape and size as the crockery pan. To be tinned twice a-month.	
Pan, stool, with cover, copper, nested.	1	10	For 5 per cent. of sick on strength.	To be tinned twice a-month.	
Paper, country, unglazed ...	...	...	One sheet daily per patient, to include patients under observation.	For use in latrine.	
Petarrahs, with trays, tin ...	...	...	One pair for each battery of Royal Artillery; two pairs for each regiment of Cavalry and Infantry; and one pair for a detached wing, or for a detachment of any less strength.		
Rope, cotton or hair	..	...	As required... ..	Required for packing.	
Sulletabs, with ropes	...	...	Do.	For packing bedding.	
Tape, broad, country	..	...	Do.	For drawers and trowser strings.	
Tarpaulins	...	...	Do.	For protecting all hospital stores.	
Tin, fomenting	1	10	For 5 per cent. of sick on strength.		
SECTION II.					
COOKING UTENSILS.					
Boilers, copper, with covers, large, medium and small, nested.	1 set	25	For 5 per cent. of sick on strength.		
Fork, flesh	1	25	Do. do. do. ...	For kitchen purposes.	
Gridiron	...	...	One for each hospital.		

NOTE.—It is not intended that serviceable articles in use should be replaced because they are not of the pattern now ordered. The new articles will not be introduced until the existing stock is used up.

BENGAL SCALE. TABLE No. 118.—(Continued).

Scale of Hospital Equipment authorized to be issued to British Troops on the Line of March from one Station to another.

1	2	3	4	5
Description of Articles.	Scale.		Number of each Article to be kept complete and serviceable in charge of the Purveyor accompanying the Troops.	Remarks.
	Proportion.	Sick.		
SECTION II.				
COOKING UTENSILS.— (Continued).				
Kettle, tea	1	25	For 5 per cent. of sick on strength.	
Measure, pint, copper ...	1	25	Do. do. do	
Pan, frying... ..	...	...	One for each hospital... ..	For kitchen purposes.
Pan, sauce, with cover, 1 quart.	1	25	For 5 per cent. of sick on strength.	Do. do.
Shape, pudding, oblong, metal, with tin tray for putting over the dish.	1	5		
Soup-ladle, pint, copper ...	1	25		
SECTION III.				
DIET REQUISITES.				
Cups, drinking, enamel, pint.	2	each	For 5 per cent. of sick on strength.	
Forks, steel, with buckhorn handles.	1	each		
Knives, steel, with buckhorn handles.	1	each		
Plates, enamel, dinner size	1	each		
Spoons, nickel silver ...	1	each		
Salt-cellars, pewter, per- forated cover.	1	2	... ..	For kitchen purposes.
Tumblers, glass	1	25		
SECTION IV.				
CLOTHING.				
Men.				
Belts, flannel	3	2	For 5 per cent. of sick on strength.	
Drawers, cotton	3	each		
Gowns, long, woollen ...	1	each		
Shirts, cotton	3	each		
Slippers, leather, pairs ...	1	each		
Socks, worsted, pairs ...	2	each	Do. do.	
Towels, hand	2	each		
Trowsers, warm, woollen ...	1	each		
Vests, flannel	3	2		

MADRAS SCALE.—(Continued).

Scale of Hospital Equipment authorized to be issued to British Troops on the Line of March from one Station to another.

1	2	3	4	5	6
Description of Articles.	Scale.		Number of each Article to be kept complete and serviceable in charge of the Purveyor accompanying the Troops.	Remarks.	Reasons for deviation from the Bengal Scale.
	Proportion.	Sick.			
SECTION II.					
COOKING UTENSILS.— (Continued).					
Kettle, tea	1	25	For 5 per cent. of sick on strength.	For kitchen purposes.	
Measure, pint, copper ...	1	25	Do. do. do.		
Pan, frying... ..	...	...	One for each hospital ...		
Pan, sauce, with cover, one quart.	1	25	For 5 per cent. of sick on strength.		
Shape, pudding, oblong, metal, with tin tray for putting over the dish.	1	5		Do. do.	
Soup-ladle, pint, copper ...	1	25			
SECTION III.					
DIET REQUISITES.					
Cups, drinking, enamel, pint.	2	each	For 5 per cent. of sick on strength.		
Forks, steel, with buckhorn handles.	1	each			
Knives, steel, with buckhorn handles.	1	each			
Plates, enamel, dinner size	1	each			
Spoons, nickel silver ...	1	each			
Salt-cellars, pewter, perforated cover.	1	2	 For kitchen purposes.		
Tumblers, glass	1	25			
SECTION IV.					
CLOTHING.					
Men.					
Belts, flannel	3	2	For 5 per cent. of sick on strength.		
Drawers, cotton	3	each			
Gowns, long, woollen ...	1	each			
Shirts, cotton	3	each			
Slippers, leather, pairs ...	1	each			
Socks, worsted, pairs ...	2	each	Do. do.		
Towels, hand	2	each			
Trowsers, warm, woollen ...	1	each			
Vests, flannel	3	2			

BENGAL SCALE. TABLE No. 143.—(Continued).

Scale of Hospital Equipment authorized to be issued to British Troops on the Line of March from one Station to another.

1	2	3	4	5
Description of Articles.	Scale.		Number of each Article to be kept complete and serviceable in charge of the Purveyor accompanying the Troops.	Remarks.
	Proportion.	Sick.		
SECTION V.				
BEDDING.				
Bed-cases, duck, barrack pattern.	1	each	.....	To be filled with straw when in use in camps. The size of the bed cases and the amount of straw stuffing that will be required for a bed cover will be fixed when a standard pattern dooly has been selected. At present the old pattern hospital mattresses now in use may be utilised for use in doolies on the line of march in lieu of the bed cases stuffed with straw sanctioned in the order.
			For 5 per cent. of sick on strength.	
Blankets, English, white, weight 5 lb., size 7 x 5 ft.	2	each	.....	With an addition of 20 per cent. on the authorised number when considered necessary by the Administrative Medical Officer.
Pillow, cocoanut fibre or horse-hair, large.*	1	each	.....	To be carried in doolies.
Do. cotton, small* ...	1	each	.....	
Do. covers, large ...	2	each		
Do. covers, small ...	2	each		
Sheets, cotton, 7 x 5 fete	4	each		

* The pillows to be of the same size and description as allowed for hospitals in cantonments.

NOTE I.—Bazar medicines, necessaries, and stationery, &c., will be supplied on Medical Officers' requisitions, duly approved of by the Administrative Medical Officer of the Circle, in accordance with the scale sanctioned by G.O., No. 1256 of 1876. Such articles as need to be fresh, as poultice materials, and such as are too heavy to be carried, as wood, will be supplied daily at each encamping ground by the Commissariat Department.

II.—In calculating the percentages of sick on strength, all fractional parts of twenty will be reckoned as one sick.

III.—When hospitals for sick women and children are opened on the line of march, marching equipment, calculated at 5 per cent. of sick on the strength of women and children proceeding with the troops, will also be supplied by the Commissariat Department.

IV.—The marching scale of hospital equipment should generally be made up out of the station stock, with such additional articles as are prescribed for the march; and when a regiment arrives at its destination, the marching equipment should be added to the station stock for general use, or issued to any other regiment marching from the station.

Scale of Hospital Equipment for British Troops proceeding by Railway from one Station to another.

1	2	3	4	5
Description of Articles.	Scale.		Number of each Article to be supplied serviceable to Purveyor, or to the Medical Officer in charge, where no Purveyor is proceeding with the Troops.	Remarks.
	Proportion.	Sick.		
Blankets, English, white, weight 5 lb., size 7 x 5 feet.	1	each	For 1 per cent. of sick on strength	Of the same size and description as supplied in cantonment.
Pillows, cotton, small, with covers.	1	each		
Towels	1	each		

NOTE.—In calculating the percentage of sick on strength, all fractional parts of 100 will be reckoned as one sick.

MADRAS SCALE.—(Continued).

Scale of Hospital Equipment authorised to be issued to British Troops on the Line of March from one Station to another.

1	2	3	4	5	6
Description of Articles.	Scale.		Number of each Article to be kept complete and serviceable in charge of the Purveyor accompanying the Troops.	Remarks.	Reasons for deviation from the Bengal Scale.
	Proportion.	Sick.			
SECTION V.					
BEDDING.					
Bed-cases, duck, barrack pattern.	1	each	.....	To be filled with straw when in use in camps. The size of the bed-cases and the amount of straw stuffing that will be required for a bed cover will be fixed when a standard pattern dooly has been selected. At present the old pattern hospital mattress now in use may be utilised for use in doolies on the line of march in lieu of the bed cases stuffed with straw sanctioned in the order.	
			For 5 per cent. of sick on strength.		
Blankets, English, white, weight 5 lb., size 7 x 5 ft.	2	each	.....	With an addition of 20 per cent. on the authorised number when considered necessary by the Administrative Medical Officer.	
Pillow, cocoanut fibre or horse-hair, large.*	1	each	.....	To be carried in doolies.	
Do. cotton, small*	1	each	.....		
Do. covers, large	2	each			
Do. covers, small	2	each			
Sheets, cotton, 7 x 5 feet	4	each			

* The pillows to be of the same size and description as allowed for hospitals in cantonments.

NOTE I.—Bazar medicines, necessaries, and stationery, &c., will be supplied on Medical Officers' requisitions, duly approved of by the Administrative Medical Officer of the Circle, in accordance with the scale sanctioned by Commissariat Code of 1878 and G.O., No. 574 of 1878. Such articles as need to be fresh, as poultice materials, and such as are too heavy to be carried, as wood, will be supplied daily at each encamping ground by the Commissariat Department.

II.—In calculating the percentages of sick on strength, all fractional parts of twenty will be reckoned as one sick.

III.—When hospitals for sick women and children are opened on the line of march, marching equipment, calculated at 5 per cent. of sick on the strength of women and children proceeding with the troops, will also be supplied by the Commissariat Department.

IV.—The marching scale of hospital equipment should generally be made up out of the station stock, with such additional articles as are prescribed for the march; and when a regiment arrives at its destination, the marching equipment should be added to the station stock for general use, or issued to any other regiment marching from the station.

Scale of Hospital Equipment for British Troops proceeding by Railway from one Station to another.

1	2	3	4	5	6
Description of Articles.	Scale.		Number of each Article to be supplied serviceable to Purveyor or to the Medical Officer in charge, where no Purveyor is proceeding with the Troops.	Remarks.	Reasons for deviation from the Bengal Scale.
	Proportion.	Sick.			
Blankets, English, white, weight 5 lb., size 7 x 5 feet.	1	each	For 1 per cent. of sick on strength.	Of the same size and description as supplied in cantonment.	
Pillows, cotton, small, with covers.	1	each			
Towels	1	each			

NOTE.—In calculating the percentage of sick on strength, all fractional parts of 100 will be reckoned as one sick.

BENGAL SCALE. TABLE No. 154.

Scale of Petty Supplies authorized to be indented for by Regiments from the Commissariat Department.

1	2	3
Articles.	Scale.	Remarks.
Bysakies or props ...	One for each tattie ...	For supporting tatties.
Casks $\frac{1}{2}$, for Macnamara's filters, with cover.	One for each filter ...	To be renewed every two years.
Chalk for cleaning lamps ...	1 chittack per lamp monthly ...	For barracks and hospitals of European regiments.
Charcoal for chatty filters	3 $\frac{1}{2}$ lb. per filter-stand monthly ...	To be indented for quarterly where these filters are in use.
Charcoal, animal, for Macnamara's filters.	As a first supply to fully charge each filter—30 lb. This should last at least two years, when it will be renewed if shown to be necessary, by the report of a special committee. To replace loss in removing, reburning and cooling— $\frac{1}{4}$ oz. for each pound of animal charcoal in the original charge of the filter.	The animal charcoal will be aerated once a week—a process which involves no loss of material—and will be removed, reburned and cooled once in six months.
Charcoal, wood, for charcoal burner authorised for Macnamara filters.	Four seers per filter requiring purification.	
Charcoal for Armourer's shop, British troops.	See G.O., No. 231 of 1876 ...	For browning small arms, and for the ordinary purposes of an Armourer's shop.
Do. do. Native troops	Do. do.	Do. do. do.
Cloth, country, doosootie, for cleaning lamps.	One yard monthly for every eight lamps provided by the State.	Libraries, Reading Rooms, Serjeants' Messes. Serjeants and married soldiers are not provided with lamps by the State.
Cotton thread, lightly twisted.	3 oz. for each chatty filter annually.	
Cotton wicks, for common oil lamps.	3 chittacks for six lamps with two wicks each, monthly; or one chittack for 120 wicks (60 lamps), nightly.	This scale is extended to Serjeants and married men of British regiments.
Cotton wicks for tent lanterns.	1 chittack daily for 60 lanterns ...	For troops on the line of march.
Covers, earthen, perforated, glazed.	1 for each ghurrah filter. Renewals 20 per cent. monthly.	To be placed on the mouth of the lowest ghurrah.
Dhoona ...	1 lb. for each iron vessel monthly ...	Composition—One part resin of sal-tree, three parts linseed oil. Note.—If tar is available and cheaper, it is to be used in preference, at the rate of 8 oz. per iron vessel monthly.
Dolchies ...	One for every two tatties when close together, and one for every tattie when distant.	For use when tatties are in use.
Firewood for vermin boiler	To be supplied when required, and as long as the old pattern of newar-bottomed or cane-bottomed bedsteads are in use.	The cost of firewood is not to exceed 2 $\frac{1}{2}$ annas for each cot annually. This firewood is not to be drawn for hospital cots, for cleansing which a special allowance is sanctioned in G.O., No. 185 of 1871.

MADRAS SCALE.—(Continued).

Scale of Petty Supplies authorized to be indented for by Regiments from the Commissariat Department.

1	2	3	4
Articles.	Scale.	Remarks.	Reasons for deviation from the Bengal Scale.
Bysakies or props ...	One for each tattie ...	For supporting tatties.	
Casks $\frac{1}{2}$, for Macnamara's filters, with cover.	One for each filter ...	To be renewed every two years.	
Chalk for cleaning lamps ...	1 chittack per lamp, monthly ...	For barracks and hospitals of European regiments.	
Charcoal for chatty filters...	3 $\frac{1}{2}$ lb. per filter stand monthly...	To be indented for quarterly where these filters are in use.	
Charcoal, animal, for Macnamara's filter.	As a first supply to fully charge each filter—30 lb. This should last at least two years, when it will be renewed, if shown to be necessary by the report of a special committee. To replace loss in removing, reburning and cooling— $\frac{1}{4}$ oz. for each pound of animal charcoal in the original charge of the filter.	The animal charcoal will be aerated once a week—a process which involves no loss of material—and will be removed, reburned and cooled once in six months.	
Charcoal, wood, for charcoal burner authorized for Macnamara filters.	4 seers per filter requiring purification.		
Charcoal for Armourer's shop, British troops.	See G.O., No. 231 of 1876 ...	For browning small arms, and for the ordinary purposes of an Armourer's shop.	
Do. do. Native troops	Do. do. do.	Do. do. do.	
Cloth, country, doosootie, for cleaning lamps.	One yard monthly for every 8 lamps provided by the State.	Libraries, Reading Rooms, Serjeants' Messes. Serjeants and married soldiers are not provided with lamps by the State.	
Cotton thread, lightly twisted.	3 oz. for each chatty filter annually.		
Cotton wicks for common oil lamps.	3 chittacks for six lamps with two wicks each, monthly; or one chittack for 120 wicks (60 lamps), nightly.	This scale is extended to Serjeants and married men of British regiments.	
Cotton wicks for tent lanterns.	1 chittack daily for 60 lanterns	For troops on the line of march.	
Covers, earthen, perforated, glazed.	One for each ghurrah filter. Renewals 20 per cent. monthly.	To be placed on the mouth of the lowest ghurrah.	
Dhoona ...	1 lb. for each iron vessel monthly	Composition—One part resin of sal-tree, three parts linseed oil. Note.—If tar is available and cheaper, it is to be used in preference, at the rate of 8 oz. per iron vessel monthly.	
Dolchies ...	One for every two tatties when close together, and one for every tattie when distant.	For use when tatties are in use.	
Firewood for vermin boiler	To be supplied when required, and as long as the old pattern of newar-bottomed or cane-bottomed bedsteads are in use.	The cost of firewood is not to exceed 2 $\frac{1}{2}$ annas for each cot annually. This firewood is not to be drawn for hospital cots, for cleansing which a special allowance is sanctioned in G.O., No. 185 of 1871.	

BENGAL SCALE. TABLE No. 154.—(Continued).

Scale of Petty Supplies authorized to be indented for by Regiments from the Commissariat Department.

1	2	3
Articles.	Scale.	Remarks.
Firewood for use in barracks and hospitals, European and Native troops.	See Appendix A, attached hereto.	
Firewood for Armourer's shops, British troops.	See G.O., No. 231 of 1876 ...	For browning small arms, and for the ordinary purposes of an Armourer's shop.
Do. do. Native troops	Do. do. ...	Do. do. do.
Ghurrahs for filters	Three for each ghurrah filter. Renewals 20 per cent. monthly.	
Ghurrahs for thatched and wooden-roofed buildings.	Limit 25 per cent. on the number in use. For regimental buildings of British corps not furnished with fire-engines, tanks and buckets.	The number to be fixed by Executive Engineers and local authorities.
Lime, quick...	20 ozs. per filth pit per diem ...	Not necessary in cases where regiments have adopted the trench system for the burial of night-soil.
Lime, quick, Armourer's shop, British troops.	2 lb. biennially per 100 stand of arms.	
Do. do. Native troops.	Do. do. do.	For browning arms.
Naunds ...	One for two tatties when close together, and one for each tattie when distant. Ten per cent. allowed monthly for breakages.	Tubs (half casks) to be supplied in the same proportion only when they are more economical than naunds.
Oil, common, for prayer rooms.	1 chittack per wall lamp when common oil lamps are used.	
Oil, kerosine, for prayer rooms.	2 ozs. 1 dr. daily for each when kerosine lamps are used.	
Oil, common, for greasing punkah-pulley and friction roller.	1 chittack for each pulley and each roller, per month.	For such time as punkahs are used.
Oil, common, for thermantidotes.	As required.	
Oil, common, for well gear.	4 lb. of oil for each mote or leather bag supplied.	For barrack, hospital and plunge bath wells, and wells in soldiers' gardens. To be used as a first and only supply.
Oil, common, hospitals for Native Followers.	1 lamp to be supplied with oil on the all night scale.	For hospitals, sanctioned by G.O.C.C., dated 12th December 1864.

MADRAS SCALE.—(Continued).

Scale of Petty Supplies authorized to be indented for by Regiments from the Commissariat Department.

1	2	3	4
Articles.	Scale.	Remarks.	Reasons for deviation from the Bengal Scale.
Firewood for use in barracks and hospitals, European and Native troops.	See Appendix A, attached hereto.		
Firewood for Armourer's shops, British troops.	See G.O., No. 231 of 1876 ...	For browning small arms and for the ordinary purposes of an Armourer's shop.	
Do. do. Native troops.	Do. do. ...	Do. do. do.	
Ghurrahs for filters	Three for each ghurrah filter. Renewals 20 per cent. monthly.		
Ghurrahs for thatched and wooden-roofed buildings	Limit 25 per cent. on the number in use. For regimental buildings of British corps not furnished with fire-engines, tanks and buckets.	The number to be fixed by Executive Engineers and local authorities.	
Lime, quick	20 ozs. per filth pit per diem ...	Not necessary in cases where regiments have adopted the trench system for the burial of night-soil.	
Lime, quick, Armourer's shop, British troops.	2 lb. biennially per 100 stand of arms.		
Do. do. Native troops	Do. do. do.	For browning arms.	
Naunds ...	One for two tatties when close together, and one for each tattie when distant. Ten per cent. allowed monthly for breakages.	Tubs (half casks) to be supplied in the same proportion only when they are more economical than naunds.	
Oil, common, for prayer rooms.	One chittack or 1/3rd dram per wall lamp when common oil lamps are used.		
Oil, kerosine, for prayer rooms.	2 ozs. 1 dr. daily for each when kerosine lamps are used.		
Oil, common, for greasing punkah pulley and friction roller.	One chittack or 1/3rd dram for each pulley and each roller, per month.	For such time as punkahs are used.	
Oil, common, for thermantidotes.	As required.		
Oil, common, for well gear	4 lb. of oil for each mote or leather bag supplied.	For barrack, hospital and plunge bath wells and wells in soldiers' gardens. To be issued as a first and only supply.	
Oil, common, hospitals for Native Followers.	One lamp to be supplied with oil on the all night scale.	For hospitals, sanctioned by G.O.C.C., dated 12th December 1864.	

BENGAL SCALE. TABLE No. 154.—(Continued).

Scale of Petty Supplies authorized to be indented for by Regiments from the Commissariat Department.

1	2	3
Articles.	Scale.	Remarks.
	<i>Entire Night Scale.</i>	<i>Number of Lamps to be supplied.</i>
	From 22nd March to 21st September— 2½ chittacks per lamp.	Barracks and accessories—6 lamps for every 100 soldiers in barracks whether the bar- racks be a company or half-company one.
	From 22nd September to 21st March— 3 chittacks per lamp.	At stations where the number of rooms ren- ders this scale inapplicable, the number of lamps in use may be increased to such an extent as will admit of one light burning all night in each room used as a dormitory.
		Main guards 2
		Regimental quarter guards ... 2
		Prisoners' room attached to main and quarter guards of British troops 1
		Other guards 1
		One kerosine lamp for each guard room 1
		Latrine (not those attached to Staff Serjeants' quarters) ... 1
		Passage 1
		Urinary (not those attached to Staff Serjeant's quarters) ... 1
		Each staircase 1
		Each hospital cook-house, when necessary: see "till tattoo scale." 1
		All regimental Staff Serjeants, Class A, including Schoolmaster and Schoolmistress, and Serjeant- Majors and Quartermaster Ser- jeants of detached batteries of Royal Artillery... .. 1
		Schoolmaster and Schoolmistress, Artillery Brigade, Head Quarters 1 each.
		Nurses employed in European female hospitals 1
		Hospital Serjeants } 1
		Acting Do. } 1
		When batteries of Royal Artillery are serv- ing together, an issue on the all night scale should be made only to the senior Hospital Serjeant present, the others will receive on the "till tattoo scale."
		Station Native guards supplied with oil by Commissariat Department, but not regi- mental guards, which are to be supplied regimentally.

Oil, common (or castor, if
cheaper) for lamps.

MADRAS SCALE.—(Continued).

Scale of Petty Supplies authorized to be indented for by Regiments from the Commissariat Department.

1	2	3	4
Articles.	Scale.	Remarks.	Reasons for deviation from the Bengal Scale.
	<i>Entire Night Scale.</i>	<i>Number of Lamps to be supplied.</i>	
	From 22nd March to 21st Sep- tember—2½ chittacks or 1½ dram per lamp.	Barracks and accessories—6 lamps for every 100 soldiers in barracks whether the barracks be a company or half-company one.	
	From 22nd September to 21st March — 3 chittacks or 2 drams per lamp.	At stations where the number of rooms renders this scale inapplicable, the number of lamps in use may be increased to such an extent as will admit of one light burning all night in each room used as a dormitory.	
		Common New pat- or Castor tern Kero- Oil Lamp sine Lamp	
		Main-guards and Regi- mental quarter-guards of British troops ... 0 1	
		Prisoners' room attach- ed to main and quarter- guards of British troops. 1 0	
		Latrine (not those attach- ed to Staff Serjeants' quarters) 1 0	
		Passage 1 0	
		Urinary (not those at- tached to Staff Ser- jeants' Quarters) ... 1 0	
		Each staircase 1 0	
		Each cook-house, when necessary; see "till tattoo scale" 1 0	
		All regimental Staff Ser- jeants, Class A, includ- ing Schoolmaster and Schoolmistress and Ser- jeant-Majors and Quar- termaster Serjeants of detached batteries of Royal Artillery ... 1 0	
		Schoolmaster and School- mistress, Artillery Bri- gade, Head Quarters. 1 each.	
		Nurses employed in European female hos- pitals 1 0	
		Hospital Serjeants ... } 1 0	
		Acting Do. ... } 1 0	
		When batteries of Royal Artillery are serving together, an issue on the all night scale should be made only to the senior Hospital Serjeant present, the others will receive on the "till tattoo scale."	
		Station Native guards supplied with oil by Commissariat Department, but not regimental guards, which are to be supplied regimentally.	

Oil, common (or castor, if
cheaper) for lamps.Vide Madras
G. O. G.,
No. 803,
dated 25th
Oct. 1878.

BENGAL SCALE. TABLE No. 154.—(Continued).

Scale of Petty Supplies authorized to be indented for by Regiments from the Commissariat Department.

1	2	3
Articles.	Scale.	Remarks.
Oil, kerosine, for lamps...	BARRACKS AND HOSPITALS. Ordinary Lamps. Small Lamps. Large Lamps. Entire Night Scale— From 22nd March to 21st September. 4 ozs. 4½ ozs. From 22nd September to 21st March. 4½ „ 5½ „ Till-Tattoo Scale— From 22nd March to 21st September. 2 ozs. From 22nd September to 21st March 2½ „ Lamps with wide Wicks burning in Barracks only till Tattoo. Small Lamps. Large Lamps. From 22nd March to 21st September. 4 ozs. 4½ ozs. From 22nd September to 21st March. 4½ „ 5½ „ Large imported English N. P. Lamps burning in Hospitals only. Summer. Winter. Till tattoo ... 2½ ozs. 5 ozs. Entire night ... 7 „ 10 „ For Serjeants' Messes— 4 ozs. daily for every six Serjeants in mess. Night Schools— In summer ... 2½ ozs. In winter ... On school nights. 5 ozs.	For scale of lamps, vide Tables 147 (Commissariat) and 148 (Commissariat). For the new pattern lamps authorised in Military Department letter, No. 1261, dated the 22nd March 1875, the following scale of oil, wicks, &c, has been sanctioned for the present, subject to revision hereafter:— Oil for lamp burning till tattoo— In summer ... 2½ ozs. In winter ... 5 „ Wicks, 9 inches long—Two per lamp monthly. Chimneys, to replace breakages—15 per cent. per mensem on number in use. Cloth for cleaning lamps—One yard monthly per 8 lamps in use. Number of Lamps authorised to be burned in Hospitals. Entire Night— Each ward or room occupied ... 1 Each Surgery ... 1 Till Tattoo— Each large ward ... 1 Each reading-room ... 1 Note.—When kerosine lamps cannot be supplied, common oil lamps should be burned in accordance with the above scales. To burn till tattoo. One lamp to every four men per night the school is open. The attendance to equal 25 in a complete regiment of British Cavalry or Infantry, 20 in wings of regiments, in combined Artillery Schools, and Convalescent Depots, and 15 in detached batteries of Royal Artillery.
	Pans, earthen, glazed ... One for each ghurrah filter. Renewals, 2 per cent. monthly.	To be placed under the lowest ghurrah for collecting refuse water.
	Sand, cleaned, for chatty filters. 20 lb. monthly for each ghurrah filter ...	To be indented for quarterly.
	Sand, coarse, cleaned, for Macnamara's filter. 12½ lb. every two months ...	The sand is to be changed every two months. Where coarse sand cannot be procured, a substitute to be provided from over-burnt brick, jhamma.

MADRAS SCALE.—(Continued).

Scale of Petty Supplies authorized to be indented for by Regiments from the Commissariat Department.

1	2	3	4
Articles.	Scale.	Remarks.	Reasons for deviation from the Bengal Scale.
Oil, for lamps, whether kerosine, common or castor.	BARRACKS AND HOSPITALS. Description of Lamp. Entire Night Scale. Till Tattoo Scale. New pattern kerosine lamp.* 8 oz. 3½ oz. Common and castor-oil lamp.† 2 drams of a with ½ oz. dram but of lamp, no lamps thread for wicks per month. 3½ oz. Kerosine lamps for nights school on school nights. ... 3½ oz. * The allowance of oil for this lamp is experimental and may subsequently be modified. † For lights for barracks and hospitals occupied by Native troops in Burma and for guards generally, and oil for gates, &c, see paras. 942 to 945, Commissariat Code. For British troops, one kerosine lamp to burn all night is authorized for each main guard and regimental quarter-guard, instead of two common or castor-oil lamps.	Kerosine oil is provided for the following number of lamps in hospital:— Entire Night. Each ward or room occupied ... 1 Each surgery ... 1 Till Tattoo. Each large ward ... 1 Each reading-room ... 1 Note.—When kerosine lamps cannot be supplied, common oil lantern should be burned in accordance with the above scales. One glass burner sanctioned for each such lamp with a renewal of 6 per cent. monthly on the number in use and one floating wick holder. Common oil lamps will be burned on the same scale as that detailed for kerosine lamps.	Vide Madras G.O.C.C., No. 893 of 1878.
		To burn till tattoo. One lamp to every four men per night the school is open. The attendance to equal 25 in a complete regiment of British Cavalry or Infantry, 20 in wings of regiments, in combined Artillery Schools and Convalescent Depots, and 15 in detached batteries of Royal Artillery.	
	Pans, earthen, glazed ... One for each ghurrah filter. Renewals 2 per cent. monthly.	To be placed under the lowest ghurrah for collecting refuse water.	
	Sand, cleaned, for chatty filters. 20 lb. monthly for each ghurrah filter.	To be indented for quarterly.	
	Sand, coarse, cleaned, for Macnamara's filter. 12½ lb. every two months ...	The sand is to be changed every two months. Where coarse sand cannot be procured, a substitute to be provided from over-burnt brick, jhamma.	

BENGAL SCALE. TABLE No. 154.—(Continued).

Scale of Petty Supplies authorized to be indented for by Regiments from the Commissariat Department.

1	2	3
Article.	Scale.	Remarks.
Sand, fine, cleaned, for Macnamara's filter.	8 lb. to be supplied every two months.	The sand is to be changed every two months.
Sheets, doosotee, cloth	Two for each charcoal-burner, to be replaced only when worn out.	For purifying the animal charcoal used in the Macnamara filters.
Sheeting, old	2½ oz. annually per man for cleaning rifles.	This allowance is separate from the 24 lb. of old sheeting to be supplied under paragraph 319 of the Indian Appendix to the British Musketry Regulations of 1876.
Scissors for trimming the wicks of kerosine oil lamps.	One per barrack or building where kerosine lamps are burned.	
Soap for washing palliasse-case, &c.	¼ lb. of English soap per quarter	Per set of one palliasse-case and pillow-case in use. In lieu of soap, men on the Unattached List will be allowed compensation at 7 annas each per annum for single men, and 14 annas each for married men.
Straw for British troops encamped in cantonments.	6 lb. per man or woman; 3 lb. per child not in arms.	When barrack furniture is not available. The straw to be changed when considered necessary by the Commanding Officer.
Straw for British troops on the line of march.	6 lb. daily per man or woman; 3 lb. daily per child not in arms.	Indents to be made daily on the Commissariat Department. The supply is only to be made on its being certified that the tents allotted to the soldiers' families are used by them for sleeping in. For such of the sick as have not doolies to sleep in, the allowance of straw will be 12 lb. for each adult and 6 lb. for each child not in arms.
Stuffing for barrack, palliasse-cases, and pillow cases, per iron trestle cot in Bengal Proper and at all hill stations.	21½ lb. of coir per palliasse-case and pillow-case.	To be washed and teased annually:—1 lb. 8 oz. of coir will be allowed to cover the wastage caused by the operation. No allowance for wastage will be made at the quarterly washings.
Do. do. for all other stations.	24 lb. of straw, or, where straw is not procurable, long grass, cleaned, per set of palliasse-case and pillow-case in use.	Straw to be renewed quarterly, and old straw returned to Commissariat Department.

MADRAS SCALE.—(Continued).

Scale of Petty Supplies authorized to be indented for by Regiments from the Commissariat Department.

1	2	3	4
Articles.	Scale.	Remarks.	Reasons for deviation from the Bengal Scale.
Sand, fine, cleaned, for Macnamara's filter.	8 lb. to be supplied every two months.	The sand is to be changed every two months.	
Sheets, doosotee, cloth	Two for each charcoal-burner, to be replaced only when worn out.	For purifying the animal charcoal used in the Macnamara filters.	
Sheeting, old	2½ ozs. annually per man for cleaning rifles.	This allowance is separate from the 24 lb. of old sheeting to be supplied under paragraph 319 of the Indian Appendix to the British Musketry Regulations of 1876.	
Scissors for trimming the wicks of kerosine oil lamps	One per barrack or building where kerosine lamps are burned.		
Soap for washing palliasse-case, &c.	¼ lb. of English soap per quarter.	Per set of one palliasse-case and pillow case in use. In lieu of soap, men on the Unattached List will be allowed compensation at 7 annas each per annum for single men, and 14 annas each for married men.	
Straw for British troops encamped in cantonments.	6 lb. per man or woman; 3 lb. per child not in arms.	When barrack furniture is not available. The straw to be changed when considered necessary by the Commanding Officer.	
Straw for British troops on the line of march.	6 lb. daily per man or woman; 3 lb. daily per child not in arms.	Indents to be made daily on the Commissariat Department. The supply is only to be made on its being certified that the tents allotted to the soldiers' families are used by them for sleeping in. For such of the sick as have not doolies to sleep in, the allowance of straw will be 12 lb. for each adult, and 6 lb. for each child not in arms.	
Stuffing for barrack, palliasse-cases and pillow-cases, per iron trestle cot in and at all hill stations.	21½ lb. of coir per palliasse-case and pillow-case.	To be washed and teased annually:—1 lb. 8 oz. of coir will be allowed to cover the wastage caused by the operation. No allowance for wastage will be made at the quarterly washings.	NOTE.—In lieu of coir or straw for stuffing a set of bedding, men on the Unattached List will be allowed compensation at 10 annas each per annum for single men, and Rs. 1-4-0 each yearly for married men.
Do. do. for all other stations.	24 lb. of straw, or, where straw is not procurable, long grass, cleaned, per set of palliasse-case and pillow-case in use.	Straw to be renewed quarterly, and old straw returned to Commissariat Department.	

BENGAL SCALE. TABLE No. 154.—(Continued).

Scale of Petty Supplies authorized to be indented for by Regiments from the Commissariat Department.

1	2	3
Articles.	Scale.	Remarks.
Surahis, earthen, for Macnamara's filter.	First issue 20 per cent. on strength, renewals 10 per cent. per mensem on first issue.	Surahis will not be supplied to hill stations. Women and children to be included in strength when calculating the number to be allowed for use, two children being reckoned as one adult.
Tar	8 oz. for each iron vessel, monthly	To be supplied only when available and cheaper than dhoona.
Tatties (measurements to be given in requisition).	The supply to barracks and hospitals is restricted to half the number of apertures on one side of the building only. For schools, libraries, and Serjeants' messes of European troops, provided the former buildings are used in the day time and not only in the early morning. For Serjeants' and married quarters—One tattie for each, where the provisions of G.O., No. 275 of 1871, are not applicable. One for each Regimental Staff Serjeant. One for guards and workshops of European corps, canteen guards, and Canteen Serjeants' quarters, but not to the canteen. One for each family of European soldiers left in cantonments when troops are on service. For troops quartered in tents during the hot season. For churches, chapels, or other places of public worship in Military cantonments, where they have hitherto been sanctioned by proper authority, the supply may be continued.	
Tatties for thermantidotes in hospital.	Two for each thermantidote.	
Tubs, half-casks	One for two tatties when close, and one for each tattie when distant.	To be supplied only when more economical than naunds.
Unguent for ambulances ..	8 oz. per cart monthly.	
Unguent for fire-engines ..	2 lb. per fire-engine.	Unguent consists of fat or tallow boiled with sweet oil.
Unguent for conservancy carts.	8 oz. per each pair of wheels monthly, where the old pattern carts are in use (not Crowley carts).	Unguent to be composed of two parts grease and one part tar.
Unguent for Crowley filth and rubbish carts, for British and Native troops.	Per quarter— 5 lb. pitch } To coat the interior of the cart 2 lb. tar. } 4 lb. tar to paint the exterior of the cart Monthly for greasing the wheels— $\frac{1}{2}$ lb. common country soap, $\frac{1}{4}$ lb. tar. The wheels to be greased three times a week.	
Unguent for water-carts ...	8 oz. per cart monthly	Where these carts are maintained.
Wicks, 9 inches long ...	Two per each kerosine lamp, monthly.	
Wicks, 6 inches long ...	One monthly per kerosine lamp in night schools.	
Wicks, for solar lamp ...	One per lamp every fourth night if necessary.	

- NOTES.—I.—Medical Officers indent for petty supplies for hospitals.
 II.—Indents are to be made on the 25th of the month preceding that for which required.
 III.—Indents for petty supplies are to be prepared in duplicate.
 IV.—The strength of the corps or detachment, and all other details necessary in checking the indent, are to be entered on the inner fold of the indent.
 V.—Numbers and quantities of articles indented for are to be written as well as entered in figures.

MADRAS SCALE.—(Continued).

Scale of Petty Supplies authorized to be indented for by Regiments from the Commissariat Department.

1	2	3	4
Articles.	Scale.	Remarks.	Reasons for deviation from the Bengal Scale.
Surahis, earthen, for Macnamara's filter.	First issue 20 per cent. on strength, renewals 10 per cent. per mensem on first issue.	Surahis will not be supplied to hill stations. Women and children to be included in strength when calculating the number to be allowed for use, two children being reckoned as one adult.	
Tar	8 oz. for each iron vessel, monthly.	To be supplied only when available and cheaper than dhoona.	
*Tatties (measurements to be given in requisition).	The supply to barracks and hospitals is restricted to half the number of apertures on one side of the building only. For schools, libraries, and Serjeants' messes of European troops, provided the former buildings are used in the day time and not only in the early morning. For Serjeants' and married quarters—One tattie for each, where the provisions of G. O., No. 275 of 1871, are not applicable. One for each Regimental Staff Serjeant. One for guards and workshops of European corps, canteen guards and Canteen Serjeants' quarters, but not to the canteen. One for each family of European soldiers left in cantonments when troops are on service. For troops quartered in tents during the hot season. For churches, chapels, or other places of public worship in Military cantonments, where they have hitherto been sanctioned by proper authority, the supply may be continued.		
Tatties for thermantidotes in hospital.	Two for each thermantidote.		
Tubs, half-casks	One for two tatties when close, and one for each tattie when distant.	To be supplied only when more economical than naunds.	
Unguent for ambulances ...	8 oz. per cart monthly.		
Unguent for fire-engines ...	2 lb. per fire engine	Unguent consists of fat or tallow boiled with sweet oil.	
Unguent for conservancy carts.	8 oz. per each pair of wheels monthly, where the old pattern carts are in use (not Crowley carts.)	Unguent to be composed of two parts grease and one part tar.	
Unguent for Crowley filth and rubbish carts, for British and Native troops.	Per quarter— 5 lb. pitch } to coat the interior of the cart. 2 lb. tar } 4 lb. tar to paint the exterior of the cart. Monthly for greasing the wheels— $\frac{1}{2}$ lb. common country soap, $\frac{1}{4}$ lb. tar. The wheels to be greased three times a week.		
Unguent for water-carts ...	8 oz. per cart monthly	Where these carts are maintained.	
Wicks, 9 inches long ...	Two per each kerosine lamp, monthly.		
Wicks, 6 inches long ...	One monthly per kerosine lamp in night schools.		
Wicks for solar lamp ...	One per lamp every fourth night if necessary.		

*N.B.—The supply of tatties is left to the Standing Barrack Committee at stations where tatties are now supplied, to decide when fixing the allotment of punkah coolies for the next hot season, whether they should or should not be made up for barracks, married quarters or hospitals, the opinion of the Deputy Surgeon-General, British Service, being obtained as to the necessity or otherwise for the supply of Hospitals.—Proceedings of Madras Government, No. 2949, 21st May 1877.

- NOTES.—I.—Medical Officers indent for petty supplies for hospitals.
 II.—Indents are to be made on the 25th of the month preceding that for which required.
 III.—Indents for petty supplies are to be prepared in duplicate.
 IV.—The strength of the corps or detachment, and all other details necessary in checking the indent, are to be entered on the inner fold of the indent.
 V.—Numbers and quantities of articles indented for are to be written as well as entered in figures.

BENGAL SCALE, APPENDIX A.—TABLE No. 154.—(Continued).

1. The following scale of Firewood is authorized for Barracks and Hospitals of European Troops:—

Divisions and Districts.	Stations.	Fire-places.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Remarks.
			Cwts. Qrs. Lb.	Cwts. Qrs. Lb.	Cwts. Qrs. Lb.	Cwts. Qrs. Lb.	Cwts. Qrs. Lb.	Cwts. Qrs. Lb.	Cwts. Qrs. Lb.	Cwts. Qrs. Lb.	Cwts. Qrs. Lb.	Cwts. Qrs. Lb.	Cwts. Qrs. Lb.	Cwts. Qrs. Lb.	
Presidency District.	Darjeeling ..	Large, each	2 16 2	1 16 1	1 20 1	1 20 1	1 20 1	2 16 2	2 16 2	2 16 2	2 16 2	2 16 2	2 16 2	2 16 2	As regards British hospitals alone, Bareilly is added to the list of stations published in G.O. No. 135 of 1866, for which the supply of fuel is authorized under certain conditions for raising the temperature in the wards.
Rohilkund District.	Naini Tal and Ranikhet ..	Small ..	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	
	Bareilly ..	Large each	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	The date on which the burning of fires should commence, and their discontinuance, is left to the discretion of the Officer Commanding the Depot, and requires to be announced in Station Orders.
	Landour ..	Small ..	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	
Meerut Division.	Meerut ..	Hospitals ..	2 24 2	2 24 2	2 24 2	2 24 2	2 24 2	2 24 2	2 24 2	2 24 2	2 24 2	2 24 2	2 24 2	2 24 2	The issue to be restricted to 40 lb. a-day per fire-place, and only allowed on such days between the 1st December and 15th February, as the local military authorities may deem fires absolutely necessary on account of wet or inordinately cold weather.
	Roorkee ..	Barracks and Hospitals.	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	
	Chakrata ..	Large, each	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	The date on which the burning of fires should commence, and their discontinuance, is left to the discretion of the Officer Commanding the Depot, and requires to be announced in Station Orders.
	Kasuli, Dag-shai and Jutogh ..	Small ..	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	
Sirhind Division.	Sabathu and Solon ..	Large, each	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	The date on which the burning of fires should commence, and their discontinuance, is left to the discretion of the Officer Commanding the Depot, and requires to be announced in Station Orders.
	Umballa when necessary hospitals only.	Small ..	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	
Lahore Division.	Meean Meer ..	Large, each	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	The date on which the burning of fires should commence, and their discontinuance, is left to the discretion of the Officer Commanding the Depot, and requires to be announced in Station Orders.
	Ferozepore ..	Small ..	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	
Rawalpindi Division.	Mooltan ..	Large, each	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	The date on which the burning of fires should commence, and their discontinuance, is left to the discretion of the Officer Commanding the Depot, and requires to be announced in Station Orders.
	Amritsar ..	Small ..	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	
Sirhind Division.	Sialkote ..	Large, each	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	The date on which the burning of fires should commence, and their discontinuance, is left to the discretion of the Officer Commanding the Depot, and requires to be announced in Station Orders.
	Jullundur ..	Small ..	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	
	Kangra ..	Large, each	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	The date on which the burning of fires should commence, and their discontinuance, is left to the discretion of the Officer Commanding the Depot, and requires to be announced in Station Orders.
	Bhagaul, Dharmasala & Dalhousie.	Small ..	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	
	Murree ..	Large, each	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	The date on which the burning of fires should commence, and their discontinuance, is left to the discretion of the Officer Commanding the Depot, and requires to be announced in Station Orders.
	Rawalpindi ..	Small ..	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	
	The Gullies ..	Large, each	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	The date on which the burning of fires should commence, and their discontinuance, is left to the discretion of the Officer Commanding the Depot, and requires to be announced in Station Orders.
	Campbellpore ..	Small ..	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	
	Attock ..	Large, each	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	The date on which the burning of fires should commence, and their discontinuance, is left to the discretion of the Officer Commanding the Depot, and requires to be announced in Station Orders.
	Peshawar ..	Small ..	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	
	Nowshera ..	Large, each	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	The date on which the burning of fires should commence, and their discontinuance, is left to the discretion of the Officer Commanding the Depot, and requires to be announced in Station Orders.
	Cherat ..	Small ..	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	
	Dera Ismail Khan ..	Large, each	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	The date on which the burning of fires should commence, and their discontinuance, is left to the discretion of the Officer Commanding the Depot, and requires to be announced in Station Orders.
	Pachmarhi ..	Small ..	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	1 12 1	

At Rawalpindi, fuel according to existing scale may be allowed when necessary where fire-places exist or can be constructed in all rooms necessarily used during the day, whether styled dormitories or not. Fire-places are not required for rooms used only as dormitories.

* The period during which firewood is issued may be extended to four months; fires beginning and ceasing on the dates considered proper by the local Military authorities, but so as not to exceed the limit of four months.

† From 10th June to 10th September only of each year.

‡ To 15th March.

2. All chimneys in family quarters, guard-rooms and Regimental Staff and other Serjeants' quarters are to be considered small, and restricted to the scale of fuel laid down for such fire-places. Fuel is to be allowed for one chimney for each separate quarter.

3. For the fire-place in the quarter-guard of the British Infantry lines at Meeran Meer, fuel is to be issued on the scale laid down in G.O. No. 135 of 1866, for a large fire-place.

4. Fuel should be issued in kind to Bazaar, Barrack, Commissariat and Ordnance Serjeants doing duty at hill stations and at such stations in the plains where fuel is issued to European troops, at the rate of twenty seers per diem in winter and ten seers in summer; unless where the Commissariat cannot arrange for the supply, when compensation at the rate of Rs. 1-14-7 per mensem would be claimable month by month, just as the issue in kind would be. Compensation to Bazaar, Commissariat and Ordnance Serjeants will be paid by the Commissariat Department, and to Barrack Serjeants by the Public Works Department. Soldier Students attached to the Thomason College at Roorkee are entitled to the supply of fuel by the Commissariat Department.

MADRAS SCALE.—(Continued).

1. The following scale of Firewood, &c., is authorized for Barracks and Hospitals for European Troops as per G.O.C.C., No. 8, 19th January 1865, and Commissariat Code, page 302, Section XV:—

Divisions and Districts.	Stations.	Fire-places.	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Remarks.	Reasons for deviation from the Bengal Scale.
			Cwts. Qrs. Lb.	Cwts. Qrs. Lb.	Cwts. Qrs. Lb.	Cwts. Qrs. Lb.	Cwts. Qrs. Lb.	Cwts. Qrs. Lb.	Cwts. Qrs. Lb.	Cwts. Qrs. Lb.	Cwts. Qrs. Lb.	Cwts. Qrs. Lb.	Cwts. Qrs. Lb.	Cwts. Qrs. Lb.		
Mysore Division.	Wellington ..	Large, each	50 20	100 50	100 50	100 50	100 50	100 50	100 50	100 50	100 50	100 50	100 50	100 50	The date on which the burning of fires should commence and their discontinuance is left to the discretion of the Officer Commanding the Depot and should be notified in Station Orders. If they are commenced earlier or continued later than the months specified in this table, it should be certified by the Medical Officer that such is absolutely necessary.	This scale is at present issued to the Native Hospital at Mercara under Proceedings of Government, No. 2686, dated 31st May 1878.
		Small, ..	20 10	40 20	40 20	40 20	40 20	40 20	40 20	40 20	40 20	40 20	40 20	40 20		
Mysore Division.	Mercara ..	Native Hospital.	70 35	70 35	70 35	70 35	70 35	70 35	70 35	70 35	70 35	70 35	70 35	70 35	The scale being a maximum one, the requirements of the troops may frequently be met by a smaller quantity, and with this object in view, the actual issue shall be notified from time to time in Station Orders; the intervals between the publication of each order is left to the discretion of the Officer Commanding the Station, who will take advantage of every change in the weather, in order that the consumption of fuel may be no more than is necessary for the comfort of the troops.	The period for which fuel is sanctioned for Hospital Serjeants and Nurses will be the same as if they were living in barracks.
			70 35	70 35	70 35	70 35	70 35	70 35	70 35	70 35	70 35	70 35	70 35	70 35		
Ceded Districts.	Ramanadrog.	Large, each	80 40	80 40	80 40	80 40	80 40	80 40	80 40	80 40	80 40	80 40	80 40	80 40	The scale being a maximum one, the requirements of the troops may frequently be met by a smaller quantity, and with this object in view, the actual issue shall be notified from time to time in Station Orders; the intervals between the publication of each order is left to the discretion of the Officer Commanding the Station, who will take advantage of every change in the weather, in order that the consumption of fuel may be no more than is necessary for the comfort of the troops.	The period for which fuel is sanctioned for Hospital Serjeants and Nurses will be the same as if they were living in barracks.
Nagpore Force.	Pachmarhi ..	Small, ..	40 20	40 20	40 20	40 20	40 20	40 20	40 20	40 20	40 20	40 20	40 20	40 20		

1. All chimneys in family quarters, guard-rooms and Regimental Staff and other Serjeants' quarters are to be considered small, and restricted to the scale of fuel laid down for such fire-places. Fuel is to be allowed for one chimney for each separate quarter.

2. For the fire-place in the quarter-guard of the depots, Wellington, Ramandrog and Pachmarhi, fuel is to be issued on the scale laid down in G.O. No. 135 of 1866, for a large fire-place.

3. Fuel should be issued in kind to Bazaar, Barrack, Commissariat and Ordnance Serjeants doing duty at hill stations and at such stations in the plains where fuel is issued to European troops, at the rate of twenty seers per diem in winter, and ten seers in summer; unless where the Commissariat cannot arrange for the supply, when compensation at the rate of Rs. 1-14-7 per mensem would be claimable month by month, just as the issue in kind would be. Compensation to Bazaar, Commissariat and Ordnance Serjeants will be paid by the Commissariat Department, and to Barrack Serjeants by the Public Works Department. Soldier Students attached to the Engineering College at Madras are entitled to the supply of fuel by the Commissariat Department.

BENGAL SCALE. TABLE No. 154.—(Continued).

8. Station butchers when compelled to live away from their barracks are entitled to the same allowance of fuel for fire-places as departmental Non-Commissioned Officers.

Notes (A).—A Non-Commissioned Officer acting as Sub-Conductor is entitled to fuel under the decision of Government published in Commissary-General's Circular No. 128, dated 14th April 1863.

(B).—The wives of Commissariat Non-Commissioned Officers, absent from a hill station on Command, are entitled to firewood as if their husbands were present.

6. Fuel is to be issued to all Medical Subordinates of all grades doing duty at hill stations, at the rate of 20 seers per diem in winter, and ten seers in summer. The issue is not to be made to any Medical Subordinate serving in the plains.

Notes.—The issue of fuel to Medical Subordinates at Dagahai, Sabathu and Kasauli, during the months of November and March, should correspond with the supply made during those months to the European Troops at those stations.

7. Fuel is to be indented for only when the lighting of fires is considered actually necessary by regimental and local authorities. It is not considered essential that the maximum allowance of fuel should be issued without reference to local circumstances. Any unexpended portion of fuel of the previous supply must be included in the indent, and it should be certified thereon that the fuel required is absolutely necessary, and that it will be used *bona fide* for the purpose for which allowed by Government.

9. The wood for each fire-place is to be under the care of a Non-Commissioned Officer or Soldier. The issue of fuel having been sanctioned by Government, on the opinion of experienced Military and Medical Officers, for only stations of the Army and during certain seasons, no departure from the rules prescribed for issue in such cases will be permitted without the special sanction of Government. The supply of fuel is not to be dependent on the existence of stoves or fire-places.

10. In the case of outbreaks of epidemic disease, or other extraordinary circumstances, no fixed limit can be either assigned or observed. The special sanction of Government. The supply of fuel is not to be dependent on the existence of stoves or fire-places.

11. In the case of outbreaks of epidemic disease, or other extraordinary circumstances, no fixed limit can be either assigned or observed. Notes.—(A).—In cases of clear and unexpected necessity, the existing orders provide sufficiently for all possible requirements, and the Officer Commanding the station should, when time does not admit of a previous reference to the Commander-in-Chief or Government, issue the necessary orders on the representation of the principal Medical Officer.

(B).—If a Medical Officer at a station where the supply of fuel is not authorised considers the issue necessary as an *exceptional measure* in consequence of excessive cold, his opinion should be supported by the Deputy Surgeon-General. 12. The dimensions of firewood for use in barrack and hospital chimneys are to be determined by the Officer Commanding the Corps by which required, subject to the approval, when the Executive Commissariat Officer may consider such necessary, of the Officer Commanding the Station.

13. Pieces of firewood exceeding 18 inches in length are not to be received from the Commissariat Department, their use in Government buildings being strictly prohibited.

14. An allowance of Rs. 4 per mensem will be made to Master Tailors for the purpose of providing fuel for the tailors' shop.

15. The issue of fuel for fire-places constructed in the following buildings is admissible under the operation of G.O., No. 135 of 1866 :—

Battery Office.	Institute.	Prison Room.
Hospital Nurse's room.	Library.	Quartermaster's Stores.
Hospital Office.	Orderly Rooms.	Tailor's Workshop.

16. The supply of firewood is not authorised for the Canteens at Convalescent Depots.

17. The issue of firewood is sanctioned for hospitals of Native Corps at the following stations :—
Abbottabad, Mardan, Kohat, Bunnoc. } To the hospitals at Abbottabad, the issue is to be made within a limit of five months, i.e., from 1st November to 31st March, or between such dates (not exceeding five months) as the senior Medical Officer on the spot may deem necessary.
Dehra Ghazi Khan, Rajunpore.
Dehra Ismail Khan.

To the Native hospital attached to the Royal Artillery Hospital at Khyra Gully.—
Fuel for one fire place during the hot season, and for two during the remainder of the year on the certificate of the Medical Officer that fires for certain days were absolutely necessary.

To the hospitals at Shillong, Bakloh and Dharmasala.—

The supply is to be made to the wards of Native hospitals during the winter months. At Shillong, during the rains, from April to September, an annual supply of 210 maunds of coal has been sanctioned as fuel for the Native regimental hospital in addition to the winter allowance authorised in G.O., No. 248 of 1873.

To the hospitals at Almora and Petoraghar.—

The issue is to be made during the winter months.

To the Native regimental and station staff hospitals at all stations in the Peshawur District, the Rawul Pindi and Lahore Divisions, and at Jullundur, viz. :—

Peshawur District.—Peshawur, Michnee, Nowshera, Abazai, Mackeson, Shabkadar, Cherat, Rawul Pindi Division.—Rawul Pindi, Attock, Murree, The Guilles, Clifden Family Camp, Jelum, Sialkot, Talaganj, Campbellpore.

Lahore Division.—Lahore, Kangra, Ferozepore, Mooltan, Amritsar, Govindgarh, Dharmasala, Dalhousie, Bakloh.

Jullundur.—

At Dibrugarh the supply of fuel in hospitals only may be made under proper medical recommendation.

Notes.—The period during which firewood is to be issued to the hospitals at the following stations formerly included in the Peshawur Division is to be extended to four months; fires beginning and ceasing on the dates considered proper by the local military authorities, but so as not to exceed the limit of four months :—

Peshawur.	Shabkadar.	Nowshera.
Campbellpore.	Bakloh.	Abazai.
Michnee.	Rawul Pindi.	Murree.
Dehra Ismail Khan.	Attock.	

According to the scale and under the restrictions laid down in G.O., No. 135 of 1866, and No. 116 of 1867.

MADRAS SCALE.—(Continued).

4. Station butchers when compelled to live away from their barracks are entitled to the same allowance of fuel for fire-places as departmental Non-Commissioned Officers.

Notes.—(A). A Non-Commissioned Officer acting as Sub-Conductor is entitled to fuel under the decision of Government.

(B). The wives of Commissariat Non-Commissioned Sergeants absent from a hill station on command, are entitled to firewood as if their husbands were present.

5. Fuel is to be issued to all medical subordinates of all grades doing duty at hill stations, at the rate of 20 seers per diem in winter and ten seers in summer. The issue is not to be made to any medical subordinate serving in the plains.

Notes.—The issue of fuel to medical subordinates at Wellington, Ramandroog and Pachmarhi should correspond with the supply made during such months to the European troops at those stations.

6. Fuel is to be indented for only when the lighting of fires is considered actually necessary by regimental and local authorities.

7. It is not considered essential that the maximum allowance of fuel should be issued without reference to local circumstances. Any unexpended portion of fuel of the previous supply must be included in the indent, and it should be certified thereon that the fuel required is absolutely necessary, and that it will be used *bona fide* for the purpose for which allowed by Government.

8. The wood for each fire-place is to be under the care of a Non-Commissioned Officer or Soldier.

9. The issue of fuel having been sanctioned by Government, on the opinion of experienced Military and Medical Officers, for only stations of the Army and during certain seasons, no departure from the rules prescribed for issue in such cases will be permitted without the special sanction of Government. The supply of fuel is not to be dependent on the existence of stoves or fire-places.

10. In the case of outbreaks of epidemic disease, or other extraordinary circumstances, no fixed limit can be either assigned or observed. Notes (A).—In cases of clear and unexpected necessity, the existing orders provide sufficiently for all possible requirements, and the Officer Commanding the station should, when time does not admit of a previous reference to the Commander-in-Chief or Government, issue the necessary orders on the representation of the principal Medical Officer.

(B).—If a Medical Officer at a station where the supply of fuel is not authorised considers the issue necessary as an *exceptional measure* in consequence of excessive cold, his opinion should be supported by the Deputy Surgeon-General.

11. The dimensions of firewood for use in barrack and hospital chimneys are to be determined by the Officer Commanding the Corps by which required, subject to the approval, when the Executive Commissariat Officer may consider such necessary, of the Officer Commanding the Station.

12. Pieces of firewood exceeding 18 inches in length are not to be received from the Commissariat Department, their use in Government buildings being strictly prohibited.

13. An allowance of Rs. 4 per mensem will be made to Master Tailors for the purpose of providing fuel for the tailors' shop.

14. The issue of fuel for fire-places constructed in the following buildings is admissible under the operation of G.O., No. 135 of 1866 :—

Battery Office.	Institute.	Prison Room.
Hospital Nurse's room.	Library.	Quartermaster's Stores.
Hospital Office.	Orderly Room.	Tailor's Workshop.

15. The supply of firewood is not authorised for the Canteens at Convalescent Depots.

BENGAL SCALE. TABLE No. 157.—(Continued).

Revised List of Stores, &c., authorized to be supplied by the Ordnance Department for the use of Stations and Troops.

1	2	3
Articles.	Proportion allowed by Regulation per Lecture Room for a Regiment of Cavalry or Infantry.	Remarks.
MUSKETRY INSTRUCTION ARTICLES. <i>For Stations and British Troops, Cavalry and Infantry.</i>		
Targets, iron, 6 feet by 2 feet, complete.*	8	With all targets 25 per cent. spare bolts and nuts are allowed. Fifty (50) per cent. of spare rivets will be issued with all targets having rivets on their face, to permit of immediate repairs being executed by regiments to any rivets damaged by the firing. The work, being of the simplest character, is to be performed under regimental arrangements without any cost to the State. At the commencement of each season, indents for appliances to replace those not expected to last the whole of the season may be put forward. These appliances should not, however, be brought into use until those considered unserviceable are duly condemned by a Station Committee, the proceedings of which should be sent to the Ordnance Department.
Flags (when using mantlets).		
Red, 6 ft. sq. ...	1	
" 3 ft. by 4 ft. ...	4	
" and white, 2½ ft. sq. ...	2	
Dark blue, 2½ ft. sq. ...	2	
White, 2½ ft. sq. ...	2	
Poles, lance, 10 ft. long...	11	
When using butt figure 7, page 257, Musketry Regulations	2	
Disc with poles...	1	
Flag, red, 6 ft. sq. Do. 3 ft. by 4 ft. ...	4	
50 yards length of Gunter's chain or cord labelled every 5 yards and numbered 1 to 50 ...	One cord or chain.	
Pins, stout, wire, 12 inches long	18	
Stadiometer, complete, with 40 yards measuring tape or chain, a cross staff and tripod, old pattern ...	2	
or		
Stadiometer, complete, with one twenty yards length of chain, a cross staff and tripod, with stand for the stadiometer to rest upon, new pattern ...	2	
Tripod rests with rings ...	12	
Bags, sand, one bushel ...	12	

* Note by Chief Inspector of Musketry.

An exception to this rule is allowed to ranges in the hills, as at Solon, where, in consequence of the peculiarity of the ground, additional targets have been sanctioned by Government letter, No. 206, of the 7th March 1863, to the Quartermaster-General.

MADRAS SCALE.—(Continued).

Revised List of Stores, &c., authorized to be supplied by the Ordnance Department for the use of Stations and Troops.

1	2	3	4
Articles.	Proportion allowed by Regulation per Lecture Room for a Regiment of Cavalry or Infantry.	Remarks.	Reasons for deviation from the Bengal Scale.
MUSKETRY INSTRUCTION ARTICLES. <i>For Stations and British Troops, Cavalry and Infantry.</i>			
Targets, iron, 6 feet by 2 feet, complete.	8	With all targets 25 per cent. spare bolts and nuts are allowed. Fifty (50) per cent. of spare rivets will be issued with all targets having rivets on their face, to permit of immediate repairs being executed by regiments to any rivets damaged by the firing. The work being of the simplest character, is to be performed under regimental arrangements, without any cost to the State. At the commencement of each season, indents for appliances to replace those not expected to last the whole of the season may be put forward. These appliances should not, however, be brought into use until those considered unserviceable are duly condemned by a Station Committee, the proceedings of which should be sent to the Ordnance Department.	
Flags (when using mantlets).			
Red 6 ft. sq. ...	1		
" 3 ft. by 4 ft. ...	4		
" and white, 2½ ft. sq. ...	2		
Dark blue, 2½ ft. sq. ...	2		
White 2½ ft. sq. ...	2		
Poles, lance, 10 ft. long...	11		
When using butt figure 7, page 257, Musketry Regulations	2		
Disc with poles ...	1		
Flag, red, 6 ft. sq. Do. 3 ft. by 4 ft. ...	4		
50 yards length of Gunter's chain or cord labelled every 5 yards and numbered 1 to 50 ...	One cord or chain.		
Pins, stout, wire, 12 inches long	18		
Stadiometer, complete with 40 yards measuring tape or chain, a cross staff and tripod, old pattern ...	2		
or			
Stadiometer, complete, with one twenty yards length of chain, a cross staff and tripod, with stand for the stadiometer to rest upon, new pattern ...	2		
Tripod rests with rings ...	12		
Bags, sand, one bushel ...	12		

BENGAL SCALE. TABLE No. 157.—(Continued).

Revised List of Stores, &c., authorized to be supplied by the Ordnance Department for the use of Stations and Troops.

1	2	3
Articles.	Proportion allowed by Regulation per Lecture Room for a Regiment of Cavalry or Infantry.	Remarks.
MUSKETRY INSTRUCTION ARTICLES.		
<i>For Stations and British Troops, Cavalry and Infantry.—(Contd).</i>		
Brushes, paint, large	2	One year's full supply of these articles is always to be kept in store by regiments.
Brushes, paint, small size	2	
Whiting	33½ lb. annually per troop or company.	
Paint, dry, lamp-black	1½ lb. annually per troop or company.	
Glue (to make size)	4½ lb. annually per troop or company.	Targets to be painted twice annually—once with two coats as soon as the musketry course is over in April, and again with one coat on such date that they will be ready for use on 1st October.
Paint, mixed anti-corrosion (for targets) *	2 lb. annually per target.	
Paint, mixed, black	1 lb. 12 oz. } For 200 bull's eyes annually	
Paint, mixed, white	2 lb. 10 oz. }	
Buckets, paint	2	The exact dimensions of heads of bolts and nuts should be stated in the indent.
Wrenches (for screwing up targets).	2	
Platform, wooden, 20 feet by 9 inches by 6 inches.	2 per stop-butt.	
Tent, upper fly, new pattern, privates' (complete with poles, &c.), condemned.	2	
Black-board with easel, 6 feet by 4 feet	1	To be pitched at the firing point as a shelter from the sun's rays for men awaiting their turn to fire, or over firing point.
Wooden model (with suspended wires to illustrate the necessity for keeping the sights upright)	1	
Ruler, flat, three feet long	1	
Rifle musket barrel, rifle 1853	1	
Waster locks, complete... ..	6	To be supplied annually to admit of 100 bull's-eyes being painted on the barrack walls at Convalescent Depots.
Turnkey, improved, with cramp worm, &c., attached	6	
Files for documents	12	
Sponge	2 oz.	
Chalk, common (for drawing diagrams in lecture-room)	1 lb. annually.	
Compasses, with chalk-holder	1	
Box model with lock and key	1	
Stores for Convalescent Depots.		
Paint, dry, black	4 oz.	
Do. white	6 "	
Brushes, paint	2	
Buckets, paint	2	

MADRAS SCALE.—(Continued).

Revised List of Stores, &c., authorized to be supplied by the Ordnance Department, for the use of Stations and Troops.

1	2	3	4
Articles.	Proportion allowed by Regulations per Lecture Room for a Regiment of Cavalry or Infantry.	Remarks.	Reasons for deviation from the Bengal Scale.
MUSKETRY INSTRUCTION ARTICLES.			
<i>For Stations and British Troops, Cavalry and Infantry.—(Contd).</i>			
Brushes, paint, large ...	2	One year's full supply of these articles is always to be kept in store by regiments.	
Brushes, paint, small size ...	2		
Whiting ...	33½ lb. annually per troop or company.		
Paint, dry, lamp-black ...	1½ lb. annually per troop or company.		
Glue (to make size) ...	4½ lb. annually per troop or company.	Targets to be painted twice annually—once with two coats as soon as the musketry course is over in April, and again with one coat on such date that they will be ready for use on 1st October.	
Paint, mixed anti-corrosion (for targets)* ...	2 lb. annually per target.		
Paint, mixed, black ...	1 lb. 12 oz. }		
Paint, mixed, white ...	2 lb. 10 oz. }		
Buckets, paint ...	2	The exact dimensions of heads of bolts and nuts should be stated in the indent. Or condemned iron targets to serve as platforms, provided the targets are perfectly even on the surface and not bent. To be pitched at the firing point as a shelter from the sun's rays for men awaiting their turn to fire, or over firing point.	
Wrenches (for screwing up targets).	2		
Platform, wooden, 20 feet by 9 inches by 6 inches.	2 per stop-butt.		
Tent, upper fly, new pattern, privates' (complete with poles &c.), condemned.	2		
Black-board with easel, 6 feet by 4 feet ...	1		
Wooden model (with suspended wires to illustrate the necessity for keeping the sights upright) ...	1		
Ruler, flat, three feet long ...	1		
Rifle musket barrel, rifle 1853 ...	1		
Waster locks, complete ...	6		
Turnkey, improved, with cramp worm, &c., attached ...	6		
Files for documents ...	12		
Sponge ...	2 oz.		
Chalk, common (for drawing diagrams in lecture-room) ...	1 lb. annually.		
Compasses, with chalk-holder ...	1		
Box model with lock and key ...	1		
Stores for Convalescent Depots.			
Paint, dry, black ...	4 oz.	To be supplied annually to admit of 100 bull's-eyes being painted on the barrack walls at Convalescent Depots.	
Do. white ...	6 "		
Brushes, paint ...	2		
Buckets, paint ...	2		

BENGAL SCALE. TABLE No. 157.—(Continued).

Revised List of Musketry Instruction Articles supplied by the Ordnance Department, for the Royal Artillery.

1	2	3
Articles.	Proportion allowed per Battery or Division of Artillery.	Remarks.
Targets, iron, 6 ft. x 2 ft. complete.	6	50 per cent. of rivets, spare, are issued with targets having rivets on their faces, and 25 per cent. spare nuts and bolts with all targets.
Flags (when using mant-lets.)	Red 6 feet square 1 „ 3 x 4 feet... 4 „ and white 2½ feet square... 2 Dark blue 2½ feet square... 2 White 2½ ft. sq... 2	
Poles, lance, 10 feet long	11	
When using butt figure	2	
7, page 25, square	1	
Musketry Regulations	4	
50 Yards length of Gunter's chain or cord labelled every 5 yards, and numbered 1 to 50.	One chain or cord.	Not required where stadiometer is supplied.
Pins, stout, wire, 12 inches long	18	
Tripod rests, with rings	6	
Bags, sand, one bushel...	6	
Brushes, paint, large	2	
Brushes, paint, small, sash	2	
Whiting ...	33½ lb. annually.	
Paint, dry, lamp-black	1½ „	
Glue (to make size)	4½ „	
Paint, mixed, anti-corrosion (for targets).	2 lb. annually per target.	Targets to be painted twice annually—once with two coats as soon as the musketry course is over in April, and again with one coat on such date that they will be ready for use on 1st of October.
Buckets, paint	2	
Crowbars	2	
Wrenches (for screwing up targets).	2	
Tent, upper fly, new pattern, privates' (complete with poles, &c.), condemned.	2	The exact dimensions of heads of bolts and nuts should be noted in indents. To be pitched at the firing point as a shelter from the sun's rays for men awaiting their turn to fire, or over firing point.
NOTE.—The appliances will not be issued to Batteries of Horse and Field Artillery, which, when they practise, are to use the ranges and appliances of the adjacent Cavalry and Infantry regiments.		

MADRAS SCALE.—(Continued).

Revised List of Musketry Instruction Articles supplied by the Ordnance Department for the Royal Artillery.

1	2	3	4
Articles.	Proportion allowed by Regulations per Battery or Division of Artillery.	Remarks.	Reasons for deviation from the Bengal Scale.
Targets, iron, 6 ft. x 2 ft. complete.	6	50 per cent. of rivets, spare, are issued with targets having rivets on their faces, and 25 per cent. spare nuts and bolts with all targets.	
Flags (when using mant-lets.)	Red, 6 feet square 1 „ 3 x 4 feet... 4 „ and white, 2½ feet square... 2 Dark blue, 2½ feet square... 2 White, 2½ ft. sq. 2		
Poles, lance, 10 feet long	11		
When using butt figure	2		
7, page 25, square	1		
Musketry Regulations	4		
50 yards length of Gunter's chain or cord labelled every 5 yards, and numbered 1 to 50.	One chain or cord.	Not required where stadiometer is supplied.	
Pins, stout, wire, 12 inches long	18		
Tripod rests, with rings...	6		
Bags, sand, one bushel ...	6		
Brushes, paint, large ...	2		
Brushes, paint, small, sash ...	2		
Whiting ...	33½ lb. annually.		
Paint, dry, lamp-black ...	1½ do.		
Glue (to make size) ...	4½ do.		
Paint, mixed, anti-corrosion (for targets).	2 lb. annually per target.	Targets to be painted twice annually—once with two coats as soon as the musketry course is over in April, and again with one coat on such date that they will be ready for use on 1st of October.	
Buckets, paint ...	2		
Crowbars...	2		
Wrenches (for screwing up targets.)	2		
Tent, upper fly, new pattern, privates' (complete with poles &c.), condemned.	2	The exact dimensions of heads of bolts and nuts should be noted in indents. To be pitched at the firing point as a shelter from the sun's rays for men awaiting their turn to fire, or over firing point.	
NOTE.—The appliances will not be issued to batteries of Horse and Field Artillery, which, when they practise, are to use the ranges and appliances of the adjacent Cavalry and Infantry regiments.			

BENGAL SCALE. TABLE No. 157.—(Continued).

List of Stores, &c., to be supplied by the Ordnance Department, for the use of Native Regiments armed with Enfield or Snider Rifles.

1	2	3
Articles.	Proportion allowed per Regiment.	Remarks.
<i>Musketry Instruction Articles.</i>		
Targets, iron, 6 feet by 2 feet complete.	For Infantry armed with Snider ... 8 Do. do. M. loader ... 6 Cavalry ... 6	50 per cent. extra rivets are to be issued with targets having rivets on their faces. English-made targets, distinguished by having been forged in one complete piece, including flanges, and having no rivets whatever, are invariably to be issued in sets, and kept distinct from those of country make.
Flags { Red, 6 feet square ... " 3 feet by 4 feet ... " and white 2½ ft. sq. ... Dark blue, 2½ ft. square ... White, 2½ ft. square ...	1 4 2 2 2	
Poles, lance, 10 feet long	11	
Stadiometer, complete, with 40 yards measuring tape or chain, a cross staff and tripod, old pattern ...	2	
or Stadiometer, complete, with one 20 yards length of chain, a cross staff and tripod, with stand for the stadiometer to rest upon, new pattern ...	2	
Wooden model, with suspended wires to illustrate the necessity for holding the back sight, with box, complete...	1	
Common flat ruler ...	1	
Sponge, ounces, in ¼ pieces ...	2	
Rifle musket barrel, rifle 1853...	1	
Waster locks, complete ...	6	
Turnkey, improved, with cramp, worm, &c., attached ...	6	
Wrenches for screwing up targets	2	
Implements for making blank cartridges.	1 set.	
Set to consist of— Measures tin, 2½ drams...	5	
Funnels, tin, with long narrow spouts ...	5	
Formers, cartridge, rifle of 1853.	4	
Patterns, tin, showing shape of paper for blank cartridges ...	1 set.	
Straight edge, iron ...	1	
Knife, large ...	1	

MADRAS SCALE.—(Continued).

List of Stores, &c., to be supplied by the Ordnance Department for the use of Native Regiments armed with Enfield or Snider Rifles.

1	2	3	4
Articles.	Proportion allowed per Regiment.	Remarks.	Reasons for deviation from the Bengal Scale.
<i>Musketry Instruction Articles.</i>			
Targets, iron, 6 ft. by 2 ft., complete.	For Infantry armed with Snider ... 8 Do. do. M. loader ... 6 Cavalry ... 6	50 per cent. extra rivets are to be issued with targets having rivets on their faces. English-made targets, distinguished by having been forged in one complete piece, including flanges, and having no rivets whatever, are invariably to be issued in sets and kept distinct from those of country make.	
Flags { Red, 6 feet square ... " 3 " by 4 feet ... " and white 2½ ft. sq. ... Dark blue, 2½ ft. square ... White, " " ...	1 4 2 2 2		
Poles, lance, 10 feet long	11		
Stadiometer, complete, with 40 yards measuring tape or chain, a cross staff and tripod, old pattern...	2		
or Stadiometer, complete, with one 20 yards length of chain, a cross staff and tripod, with stand for the stadiometer to rest upon, new pattern ...	2		
Wooden model, with suspended wires to illustrate the necessity for holding the back sight, with box, complete ...	1		
Common flat ruler ...	1		
Sponge, ounces, in ¼ pieces ...	2		
Rifle musket barrel, rifle 1853 ...	1		
Waster locks, complete...	6		
Turnkey, improved, with cramp, worm, &c., attached ...	6		
Wrenches for screwing up targets	2		
Implements for making blank cartridges.	1 set.		
Set to consist of— Measures, tin, 2½ drams ...	5		
Funnels, tin, with long narrow spouts ...	5		
Formers, cartridge, rifle of 1853.	4		
Patterns, tin, showing shape of paper for blank cartridges ...	1 set.		
Straight edge, iron ...	1		
Knife, large ...	1		

BENGAL SCALE. TABLE No. 157.—(Continued).

List of Stores, &c., to be supplied by the Ordnance Department, for the use of Native Regiments armed with Enfield or Snider Rifles.

1	2	3
Articles.	Proportion allowed per Regiment.	Remarks.
<i>Musketry Instruction Articles.—</i> (Continued.)		
* Paint, mixed, anti-corrosion (for targets).	2 lb. annually per target ...	Targets to be painted twice annually—once with two coats as soon as the annual course is over in April, and again with one coat on such date that the targets will be ready for use on 1st October.
Paint, mixed, black { For 200 small bull's eyes annually.	1 lb. 12 oz.	To be pitched when absolutely necessary at the firing point as a shelter from the sun's rays. These flies are not to be removed from the stations to which they are originally issued, but invariably made over to the relieving regiment.
" " white {	2 lb. 10 oz.	
Tents, upper fly, new pattern, privates' (complete with poles, &c.) condemned, or pāls, sepoy's (with four poles, &c., each) condemned.	2	
Black board, 6 feet by 4 feet, with easel, complete.	1	
Compasses, with chalk-holder	1	
Chalk, common ...	1 lb. annually.	

* When issued to out-stations, where there is no magazine, an extra quantity of linseed and one pint of turpentine to every 20 lb. of prepared paint is to be sent.

List of Articles which are to be supplied by Wing Officers from their Contingent Allowance for Musketry Instruction purposes and that may be supplied from the Ordnance Department on payment.

1	2	3
Articles.	Proportion to be supplied.	Remarks.
Tripod rests with rings for aiming, drill, &c.	12	For coloring the targets at practice, &c.
Bags, sand, one bushel ...	12	
Brushes, paint, large ...	2	
Brushes, paint, small sash ...	2	
Whiting ...	33½ lb. annually per company.	
Paint, dry, lamp-black ...	1½ lb. annually per company	
Glue (to make size) ...	4½ lb. do. do.	
Buckets, paint ...	2	

MADRAS SCALE.—(Continued).

List of Stores, &c., to be supplied by the Ordnance Department for the use of Native Regiments armed with Enfield or Snider Rifles.

1	2	3	4
Articles.	Proportion allowed per Regiment.	Remarks.	Reasons for deviation from the Bengal Scale.
<i>Musketry Instruction Articles.—</i> (Continued.)			
* Paint, mixed, anti-corrosion (for targets).	2 lb. annually per target ...	Targets to be painted twice annually—once with two coats as soon as the annual course is over in April, and again with one coat on such date that the targets will be ready for use on 1st October.	
Paint, mixed, black { For 200 small bull's eyes annually.	1 lb. 12 oz.	To be pitched when absolutely necessary at the firing point as a shelter from the sun's rays. These flies are not to be removed from the stations to which they are originally issued, but invariably made over to the relieving regiment.	
" " white {	2 lb. 10 oz.		
Tents, upper fly, new pattern, privates' (complete with poles &c.) condemned, or pāls, sepoy's (with four poles, &c., each) condemned.	2		
Black board, 6 feet by 4 feet, with easel, complete.	1		
Compasses, with chalk-holder	1		
Chalk, common ...	1 lb. annually.		

* When issued to out-stations, where there is no magazine, an extra quantity of linseed and one pint of turpentine to every 20 lb. of prepared paint is to be sent.

List of Articles which are to be supplied by Wing Officers from their Contingent Allowance for Musketry Instruction purposes and that may be supplied from the Ordnance Department on payment.

1	2	3	4
Articles.	Proportion to be supplied.	Remarks.	Reasons for deviation from the Bengal Scale.
Tripod rests with rings for aiming, drill, &c.	12	For coloring the targets at practice, &c.	
Bags, sand, one bushel ...	12		
Brushes, paint, large ...	2		
Brushes, paint, small size ...	2		
Whiting ...	33½ lb. annually per company.		
Paint, dry, lamp-black ...	1½ lb. annually per company		
Glue (to make size) ...	4½ lb. do. do.		
Buckets, paint ...	2		

BENGAL SCALE. TABLE NO. 157.—(Continued).

List of Articles which are to be supplied by Wing Officers from their Contingent Allowance for Musketry Instruction purposes.

1	2	3
Articles.	Proportion to be supplied.	Remarks.
Dummy targets, 6 feet by 6 feet, composed of a wooden frame, covered with canvas or cotton material.	2	To assist in signalling shots and to indicate the direction of shots that miss the target, more especially in firing at 2nd-class distances. Inspectors of Musketry will explain and show the manner of using these dummy targets and discs.
Poles, light, or bamboos, about 12 feet long, with wooden disc at one end.	2	
Cans, of suitable pattern for Rangoon oil	One per troop or company.	
Targets for aiming drill, 6 feet by 4 feet, a frame of wood covered with canvas, on one side a bull's eye 6 inches square, on the other a bull's eye 18 inches square	2	
Articles for Rifle Range at Salon	2	
Wheelbarrows	4	
Pickaxes	12	
Spades		
Articles for Rifle Range at Sinchal	2	
Wheelbarrows	4	
Pickaxes	1	
Large cross-cut saw	4	
Spades		

Ordnance Stores.

1	2	3
Articles.	Proportion allowed by Regulation.	Surplus to be kept by Regiments.
Fittings for Armourers' Shops.		
Boiler or trough for brown-ing arms.	1	Per Armourer's shop not to exceed $\frac{1}{4}$ inch in thickness.
Bellows, 21 inches	1	Do. do. do.
Forge Anvil to weigh 1 cwt.	1	Do. do. do.
2 qrs., 12 lb.	1	Do. do. do.
Grinding Stone	1	Do. do. do.
Vice, large		Do.

MADRAS SCALE.—(Continued).

List of Articles which are to be supplied by Wing Officers from their Contingent Allowance for Musketry Instruction purposes.

1	2	3	4
Articles.	Proportion to be supplied.	Remarks.	Reasons for deviation from the Bengal Scale.
Dummy targets, 6 feet by 6 feet, composed of a wooden frame, covered with canvas or cotton material.	2	To assist in signalling shots and to indicate the direction of shots that miss the target, more especially in firing at 2nd-class distances. Inspectors of Musketry will explain and show the manner of using these dummy targets and discs.	
Poles, light, or bamboos, about 12 feet long, with wooden disc at one end.	2		
Cans of suitable pattern for Rangoon oil	One per troop or company.		
Targets for aiming drill, 6 feet by 4 feet, a frame of wood covered with canvas, on one side a bull's eye 6 inches square, on the other a bull's eye 18 inches square	2		

Ordnance Stores.

1	2	3	4
Articles.	Proportion allowed by Regulation.	Surplus to be kept by Regiments.	Reasons for deviation from the Bengal Scale.
Fittings for Armourers' Shops.			
Boiler or trough for brown-ing arms.	1	Per Armourer's shop not to exceed $\frac{1}{4}$ inch in thickness.	None.
Bellows, 21 inches	1	Do. do. do.	Do.
Forge Anvil to weigh 1 cwt.	1	Do. do. do.	Do.
2 qrs., 12 lb.	1	Do. do. do.	Do.
Grinding Stone	1	Do. do. do.	Do.
Vice, large	1	Do. do. do.	Do.

Ordnance Stores.

1	2	3
Articles.	Proportion allowed by Regulation.	Surplus to be kept by Regiments.
<i>For Royal Artillery Practice.</i>		
Bamboo or pole, 30 feet long, fitted with sheave at upper end, and cleat at lower.	1 Per battery	None.
Cloth, doosootie, for ball ...	15 Feet per pole per battery ...	Do.
Rope, Europe, 1½ inch, fathoms.	25 Per pole per battery ...	Do.
Rope, cotton, for halyards, fathoms.	10 Do.	Do.
<i>Fire Engines and their Appurtenances.</i>		
Buckets, fire, rattan, covered with leather.	6 Per fire engine	As many as are necessary with reference to the difficulty of obtaining water.
Buckets, teak-wood, of 8 or more gallons.	2 Do.	None.
Buckets, wooden, small ...	20 Per company barrack having thatched roofs and water tanks.	Do.
Drag washers	2 Pairs per fire engine	Do.
Engines, fire, water, Ordnance	1 Per European regiment, Cavalry or Infantry.	1 Per large station.
Do. do. do. ...	1 Per troop or battery of Artillery having thatched stables.	None.
Do. do. do. ...	1 Per European regiment of Cavalry having thatched stables extra.	Do.
Do. do. do. ...	1 Per out-station where British troops are located in thatched barracks.	Do.
Do. do. do. ...	1 Per division of Artillery consisting of two or more batteries at one station irrespective of material with which the stables are roofed.	Do.
Fire-hooks	6 Per fire engine	6 For spare engine.
Hatchets	4 Do.	4 Do.
Hose, canvas, with screws, 50 feet,	2	Do.
or	or	
Hose, leather, with screws, 25 feet.	4	
Ladders, bamboo ...	8 Per fire engine for tiled barracks.	1
	16 Per fire engine for thatched barracks.	or 2
		For each building.

Ordnance Stores.

1	2	3	4
Articles.	Proportion allowed by Regulation.	Surplus to be kept by Regiments.	Reasons for deviation from the Bengal Scale.
<i>For Royal Artillery Practice.</i>			
Bamboo or pole, 30 feet long, fitted with sheave at upper end and cleat at lower.	1 Per battery	None.	
Cloth, doosootie, for ball ...	15 Feet per pole per battery ...	Do.	
Rope, Europe, 1½ inch, fathoms.	25 Per pole per battery ...	Do.	
Rope, cotton, for halyards, fathoms.	10 Do.	Do.	
<i>Fire Engines and their Appurtenances.</i>			
Buckets, fire, rattan, covered with leather.	6 Per fire engine	As many as are necessary with reference to the difficulty of obtaining water.	
Buckets, teak-wood, of 8 or more gallons.	2 Do.	None.	
Buckets, wooden, small ...	20 Per company barrack having thatched roofs and water tanks.	Do.	
Drag washers	2 Pairs per fire engine	Do.	
Engines, fire, water, Ordnance.	1 Per European regiment, Cavalry or Infantry.	1 Per large station.	
Do. do. do.	1 Per troop or battery of Artillery having thatched stables.	None.	
Do. do. do.	1 Per European regiment of Cavalry having thatched stables extra.	Do.	
Do. do. do.	1 Per out-station where British troops are located in thatched barracks.	Do.	
Do. do. do.	1 Per division of Artillery consisting of two or more batteries at one station irrespective of material with which the stables are roofed.	Do.	
Fire-hooks	6 Per fire engine	6 For spare engine.	
Hatchets	4 Do.	4 Do.	
Hose, canvas, with screws, 50 feet,	2	Do.	
or	or		
Hose, leather, with screws, 25 feet.	4		
Ladders, bamboo ...	8 Per fire engine for tiled barracks.	1	For each building.
	16 Per fire engine for thatched barracks.	or 2	

BENGAL SCALE. TABLE No. 157.—(Continued).

Ordnance Stores.

1	2	3
Articles.	Proportion allowed by Regulation.	Surplus to be kept by Regiments.
<i>Fire Engines and their Appurtenances—(Contd).</i>		
Ladders, fire, bamboo ...	For public buildings occupied by Native troops, and for such departmental buildings as are liable to fire. To be supplied on indent in the proportion which will be communicated by Superintending Engineers of Military Works.	None.
Ladders, rope ...	1 For 30 running feet of thatched roof.	Do.
Ropes, with hooks at the end.	2 Per twenty buckets for barracks with thatched roofs.	Do.
Ropes, drag, field ...	1 Pair per fire engine in use	Do.
Rope, in lengths ...	1 Per pair of buckets per engine...	Do.
Saws, hand ...	4 Per fire engine ...	4 Per spare engine.
Suction pipes ...	2 Do. ...	2 Do.
Wrench (hose coupling) ...	2 Per fire engine in use ...	Officers in charge of fire engines should retain on hand the following spare articles per engine, the tools for repairs being generally in possession of bazaar workmen :— Rivets per hose ... 100 Washers per do. ... 25 Hide, buffalo ... 1 Wrench hammer ... 1 Oil-can to hold pint 1
<i>Gardening Implements.</i>		
Hoes ...	5	None.
Rakes ...	3	
Spades ...	24	
Watering pots ...	4	
Wheelbarrows, soldiers' gardens.	3 Per troop or company ... 6 Per field battery of Royal Artillery.	This scale is the maximum number allowed, but Commanding Officers are only to indent for the number actually required.
<i>Articles for General Station Purposes.</i>		
Ambulances, two-wheeled...	2 Per regiment of Cavalry and Infantry and one per hospital of Royal Artillery.	None.
Flag, Union, 18' x 12', and halyard.	For their Excellencies the Viceroy and the Commander-in-Chief.	Do.

MADRAS SCALE.—(Continued).

Ordnance Stores.

1	2	3	4
Articles.	Proportion allowed by Regulation.	Surplus to be kept by Regiments.	Reasons for deviation from the Bengal Scale.
<i>Fire Engines and their Appurtenances.—(Continued).</i>			
Ladders, fire, bamboo ...	For public buildings occupied by Native troops, and for such departmental buildings as are liable to fire. To be supplied on indent in the proportion which will be communicated by Superintending Engineers of Military Works.	None.	
Ladders, rope ...	1 For 30 running feet of thatched roof.	Do.	
Ropes, with hooks at the end.	2 Per twenty buckets for barracks with thatched roofs.	Do.	
Ropes, drag, field ...	1 Pair per fire engine in use..	Do.	
Rope, in lengths ...	1 Per pair of buckets per engine.	Do.	
Saws, hand ...	4 Per fire engine ...	4 Per spare engine.	
Suction pipes ...	2 Do. ...	2 Do.	
Wrench (hose coupling) ...	2 Per fire engine in use ...	Officers in charge of fire engines should retain on hand the following spare articles per engine, the tools for repairs being generally in possession of bazaar workmen :— Rivets per hose ... 100 Washers per do. ... 25 Hide, buffalo ... 1 Wrench hammer ... 1 Oil-can to hold pint 1	
<i>Gardening Implements.</i>			
Hoes ...	5 Per troop or company, or in that proportion for number of men using them.	None.	
Rakes ...	3		
Spades ...	24		
Watering pots ...	4		
Wheelbarrows, soldiers' gardens.	3 Per troop or company ... 6 Per field battery of Royal Artillery.	This scale is the maximum number allowed, but Commanding Officers are only to indent for the number actually required.	
<i>Articles for General Station Purposes.</i>			
Ambulances, two-wheeled...	2 Per regiment of Cavalry and Infantry, and one per hospital of Royal Artillery.	None.	
Flag, Union, 18' x 12', and halyard.	For the Governor and Commander-in-Chief.		

Ordnance Stores.

1	2		3	
Articles.	Proportion authorised by Regulation.		Surplus to be kept by Regiments.	
<i>Articles for General Station purposes.—(Contd.)</i>				
Flags, Union, 6' × 3', and halyard.	1	Per Divisional, District and Brigade Staff, and for ordinary use in garrisons.	...	None.
Flags, 24' × 12', or 21' × 10½', and halyards.	1	Per garrison as gala flag	...	Do.
Flags for Fort William— One Royal Standard and halyard.				
One Flag, Union, 6' × 3', and halyard, for ordinary use.				
One Flag, Union, gala flag, 24' × 12' or 21' × 10½', and halyards.				
Gong	1	Per Garrison Guard where necessary.	...	Do.
Glasses, hour	2	Do. do.	...	Do.
Grass-pickers (for hill stations only.)	6	Per Company, and in proportion for depots.	...	Do.
Hearses	1	For each European Cavalry or Infantry regiment, or wing of regiment, or depot of strength equal to a wing.	...	Do.
Hand-cuffs	6 sets	Per Garrison Guard where necessary.	...	Do.
Leg-irons	2 „	Do. do.	...	Do.

Articles for General Station Purposes.

General Stores.

1	2	
Articles.	Proportion allowed by Regulation.	
Paint, mixed, white, anti-corrosive	2 lb. annually for cook-house receptacle.	
Jack levers	One per Military station.	
Vice, large	One allowed (as a fixture) in addition to the tools authorized for the Armourer's shop of British Infantry regiment.	
Mallet for striking gong	One per gong.	
Triangle for gong	Do.	

Ordnance Stores.

1	2		3		4
Articles.	Proportion authorized by Regulation.		Surplus to be kept by Regiments.		Reasons for deviation from the Bengal Scale.
<i>Articles for General Station purposes.—(Continued).</i>					
Flags, Union, 6' x 3,' and halyard.	1	Per Divisional, District and Brigade Staff, and for ordinary use in garrisons.	...	None.	
Flags, 24' x 12' or 21' x 10½,' and halyards.	1	Per garrison as gala flag ...	...	Do.	
Flags for Fort St. George— 1 Royal Standard and halyard. 1 Flag, Union, 6' x 3,' and halyard, for ordinary use. 1 Flag, Union, gala flag, 24' x 12' or 21' x 10½,' and halyard.					
Gong	1	Per Garrison Guard where necessary.	...	Do	
Glasses, hour	2	Do. do.	...	Do.	
Grass-pickers (for hill station only.	6	Per Company, and in proportion for depots.	...	Do.	
Hearses	1	For each European Cavalry or Infantry regiment, or wing of regiment, or depot of strength equal to a wing.	...		
Hand-cuffs	6 sets	Per Garrison Guard where necessary.	...	Do.	
Leg-irons	2 „	Do. do.	...	Do.	

Articles for General Station Purposes.

General Stores.

1	2		3
Articles.	Proportion allowed by Regulation.		Reasons for deviation from the Bengal Scale.
Paint, mixed, white, anti-corrosive	2 lb. annually for cook-house receptacle.		
Jack levers	One per Military station.		
Vice, large	One allowed (as a fixture) in addition to the tools authorized for the Armourer's shop of British Infantry regiment.		
Mallet for striking gong	One per gong.		
Triangle for gong	Do.		

BENGAL SCALE.—TABLE No. 157.—(Continued).

Articles for General Station Purposes.—(Continued).

General Stores.

1	2				3
Articles.	Proportion allowed by Regulation.				Surplus to be kept by Regiments.
	Battery of Horse or Field Artillery.	Annual Allowance to a Battery after first Equipment.	Per Regiment of Cavalry.	Annual Allowance to a Regiment of European Cavalry in India after first Equipment.	
<i>Riding School Furniture.</i>					
Lance foils ...	...	...	24	4	None.
Sticks with baskets ...	8	3	24	10	Do.
Gloves, fencing, pairs	...	...	24	6 right hand.	Do.
Masks, wire, face	...	...	24	4	Do.
Pad for breast	...	...	24	8	Do.
Masks for head	6	2	24	6	Do.
Fencing foils ...	...	...	24	18	Do.
Fencing jackets	...	...	24	8	Do.
Practice swords	15	...	60	...	Do.
Spare blades ...	...	...	...	80	Do.

Ordnance.

1	2				3
Articles.	Proportion allowed by Regulation.				Surplus to be kept by Regiments.
<i>Soldiers' Necessaries.</i>					
Padlocks and keys for soldiers' kit-boxes.	1	Per kit-box in use	...	...	None.
<i>Voluntary Workshops of British Regiments and Batteries of Royal Artillery.</i>					
Heavy Tools. { Anvils ... { Bellows ... { Vices, standing ...	...	} According to requirements			Do.

MADRAS SCALE.—(Continued).

Articles for General Station Purposes.—(Continued).

General Stores.

1	2				3	4
Articles.	Proportion allowed by Regulation.				Surplus to be kept by Regiments.	Reasons for deviation from the Bengal Scale.
	Battery of Horse or Field Artillery.	Annual Allowance to a Battery after first Equipment.	Per Regiment of Cavalry.	Annual Allowance to a Regiment of European Cavalry in India after first Equipment.		
<i>Riding School Furniture.</i>						
Lance foils ...	...	...	24	4	None.	
Sticks with baskets ...	8	3	24	10	Do.	
Gloves, fencing, pairs	...	...	24	6 right hand.	Do.	
Masks, wire, face	...	...	24	4	Do.	
Pad for breast	...	...	24	8	Do.	
Masks for head	6	2	24	6	Do.	
Fencing foils ...	...	...	24	18	Do.	
Fencing jackets	...	...	24	8	Do.	
Practice swords	15	...	60	...	Do.	
Spare blades ...	...	...	...	80	Do.	

Ordnance.

1	2				3	4
Articles.	Proportion allowed by Regulation.				Surplus to be kept by Regiments.	Reasons for deviation from the Bengal Scale.
<i>Soldiers' Necessaries.</i>						
Padlocks and keys for soldiers' kit-boxes.	1	Per kit-box in use	...	...	None.	
<i>Voluntary Workshops of British Regiments and Batteries of Royal Artillery.</i>						
Heavy Tools. { Anvils ... { Bellows ... { Vices, standing ...	...	} According to requirements			Do.	

Proportion of Tools to be issued to a Regiment containing the following Artificers, viz :—

3 Carpenters.	1 Plumber, painter and glazier.
2 Smiths (1 a shoeing smith)	1 Cooper.
3 Bricklayers (1 a mason).	1 Tinman.

Three Carpenters.

3 Saws, hand.	3 Sets of bradawls of 4 each.
3 Do. tenon.	16 Firmer chisels, $\frac{1}{4}$ -inch to $1\frac{1}{4}$ -inch (2 of each).
3 Do. lock, 9-inch.	6 Sets of mortice chisels.
3 Do. bow, 15-inch.	3 Cold chisels.
3 Planes, trying.	3 Rasps, 12-inch, flat.
3 Do. jack.	3 Oil stones.
3 Do. smoothing.	6 Saw files.
3 Do. beading.	9 Files, bastard.
1 Set of planes, hollows and rounds.	3 Do. rat-tail.
2 Do. brace and bits.	3 Do. $\frac{1}{4}$ round, 10-inch.
3 Axes, 4 lb.	3 Do. flat.
3 Do. 2 "	3 Mallets.
3 Adzes.	3 Mortice gauges.
6 Augurs, from $\frac{1}{4}$ inch to $1\frac{1}{4}$ inch.	3 Screw-drivers.
3 Squares, 6-inch.	3 Do. wrenches (small).
3 Do. 12 "	3 Rebate fillisters.
3 Bevils.	3 Sets of saws.
3 Pairs of compasses.	1 Glue pot.
3 Do. pinchers.	6 Punches.
3 Do. pliers.	3 Spoke shaves.
3 Hammers, claw.	3 Rules, 2-feet.
3 Do. light.	3 Pencils, black-lead.
3 Sets of gimlets of 6 each.	

Two Smiths (one a Shoeing Smith).

2 Aprons, leather.	1 Poker.
4 Chisels, cold.	1 Rasp, 15-inch.
2 Do. hot.	3 Rimers.
1 Bow and breastplate.	1 Pair of plyers, bell.
1 Brace and bits.	6 Punches.
1 Caliper.	2 Saws.
1 Pair of compasses.	2 Screw-drivers.
12 Drills of sizes.	1 Pair of stakes, pointing.
12 Files of sorts.	1 Stamp, steel.
2 Hammers, bench.	1 Slice or shovel.
2 Do. sledge, 9 $\frac{1}{2}$ lb.	1 Pair tongs.
1 Do. shoeing.	1 Vice, hand.
1 Do. pointing.	1 Wrench, screw.
1 Knife, drawing.	Anvil, bellows, standing vice, &c., being
1 Do. searching.	fixtures, are considered as part of the
1 Pair of pincers.	building.

Three Bricklayers (one a Mason).

Bricklayers' Tools.

2 Axes, brick.	2 Levels.
2 Boasters.	2 Pairs of line and pins.
2 Bevils.	2 Plumb bobs.
6 Chisels—two 12", two 18", two 24".	2 Rules, 2 feet.
2 Hammers, club.	2 Squares.
2 Do. brick.	2 Trowels, brick.
	2 Trowels, pointing.

Proportion of Tools to be issued to a Regiment containing the following Artificers, viz :—

3 Carpenters.	1 Plumber, painter and glazier.
2 Smiths (1 a shoeing smith).	1 Cooper.
3 Bricklayers (1 a mason).	1 Tinman.

Three Carpenters.

3 Saws, hand.	3 Sets of bradawls of 4 each.
3 Do. tenon.	16 Firmer chisels, $\frac{1}{4}$ -inch to $1\frac{1}{4}$ -inch (2 of each).
3 Do. lock, 9-inch.	6 Sets of mortice chisels.
3 Do. bow, 15-inch.	6 Cold chisels.
3 Planes, trying.	3 Rasps, 12-inch, flat.
3 Do. jack.	3 Oil stones.
3 Do. smoothing.	6 Saw files.
3 Do. beading.	9 Files, bastard.
1 Set of planes, hollows and rounds.	3 Do. rat tail.
2 Do. brace and bits.	3 Do. $\frac{1}{4}$ round, 10-inch.
3 Axes, 4 lb.	3 Do. flat.
3 Do. 2 "	3 Mallets.
3 Adzes.	3 Mortice gauges.
6 Augurs, from $\frac{1}{4}$ inch to $1\frac{1}{4}$ inch.	3 Screw-drivers.
3 Squares, 6-inch.	3 Do. wrenches (small).
3 Do. 12 "	3 Rebate fillisters.
3 Bevils.	3 Sets of saws.
3 Pairs of compasses.	1 Glue pot.
3 Do. pinchers.	6 Punches.
3 Do. pliers.	3 Spoke shaves.
3 Hammers, claw.	3 Rules, 2 feet.
3 Do. light.	3 Pencils, black-lead.
3 Sets of gimlets of 6 each.	

Two Smiths (one a Shoeing Smith).

2 Aprons, leather.	1 Poker.
4 Chisels, cold.	1 Rasp, 15-inch.
2 Do. hot.	3 Rimers.
1 Bow and breast plate.	1 Pair of plyers, bell.
1 Brace and bits.	6 Punches.
1 Caliper.	2 Saws.
1 Pair of compasses.	2 Screw-drivers.
12 Drills of sizes.	1 Pair of stakes, pointing.
2 Files of sorts.	1 Stamp, steel.
2 Hammers, bench.	1 Slice or shovel.
2 Do. sledge, 9 $\frac{1}{2}$ lb.	1 Pair tongs.
1 Do. shoeing.	1 Vice, hand.
1 Do. pointing.	1 Wrench, screw.
1 Knife, drawing.	Anvil, bellows, standing vice, &c.,
1 Do. searching.	being fixtures, are considered as
1 Pair of pincers.	part of the building.

Three Bricklayers (one a Mason).

Bricklayers' Tools.

2 Axes, brick.	2 Levels.
2 Boasters.	2 Pairs of line and pins.
2 Bevils.	2 Plumb bobs.
6 Chisels—two 12", two 18", two 24".	2 Rules, 2 feet.
2 Hammers, club.	2 Squares.
2 Do. brick.	2 Trowels, brick.
	2 Trowels, pointing.

Reasons for
deviation from
the Bengal
Scale.

BENGAL SCALE. TABLE No. 157.—(Continued).

Description of Stores.		Description of Stores.	
Number or Quantity.		Number or Quantity.	
<i>Scale of Army Signalling Apparatus for British Regiments and Convalescent Depots.</i>		<i>Scale of Army Signalling Apparatus for British Regiments and Convalescent Depots.—(Continued).</i>	
Flags, 3 feet square, white muslin	3	Heliographs	2
Do. do. black muslin	3	Message books	4
Bamboo staves, 7 feet 9 inches long	6	Manual of Instruction, New Edition	4
Telescopes, draw, army signalling	2	Morse's Signalling cards	7
Lamps, hand signalling	2	Candles	As required.
Cryptographs	2		

N.B.—This scale is intended for service as well as purposes of instruction.
 Note.—The above scale has, with the exception of the telescopes and heliographs, been sanctioned for detached half-battalions.

MADRAS SCALE.—(Continued).
Ordinance.

Description of Stores.		Description of Stores.	
Number or Quantity.		Number or Quantity.	
<i>Scale of Army Signalling Apparatus for British Regiments and Convalescent Depots.</i>		<i>Scale of Army Signalling Apparatus for British Regiments and Convalescent Depots.—(Continued).</i>	
Flags, 3 feet square, white muslin	3	Heliographs	2
Do. do. black muslin	3	Message books	4
Bamboo staves, 7 feet 9 inches long	6	Manual of Instruction, New Edition	4
Telescopes, draw, army signalling	2	Morse's Signalling cards	7
Lamps, hand-signalling	2	Candles	As required.
Cryptographs	2		

N.B.—This scale is intended for service as well as purposes of instruction.
 Note.—The above scale has, with the exception of the telescopes and heliographs, been sanctioned for detached half-battalions.

BENGAL SCALE. TABLE NO. 157.—(Continued).

Ordnance.

1	2	3
Articles.	Proportion allowed by Regulation.	Surplus to be kept by Regiments.
<i>Fixtures for Shoeing Sheds.</i>		
Anvils, 2½ cwts. ...	3	Per regiment of European Cavalry at stations where regular shoeing sheds have been authorized by Government.
Bellows, smith, Europe, large	3	
Hammers, hand, from 2 to 3 lb. ...	6	
Hammers, sledge, medium, 7 lb. ...	6	
Tongs, fire, large size, pairs	6	
Do. shoe-turning ...	12	
Stamps, horse-shoe ...	9	
Pritchels ...	18	
Pokers, 3 feet long ...	3	
Shovels ...	3	
Vices, medium, 70 lb. ...	3	This scale applies to shoeing sheds of Royal Artillery.
Anvils, 2½ cwts. ...	1	
Bellows, smith, Europe, large	1	
Hammers, hand, from 2 to 3 lb. ...	2	
Hammers, sledge, medium, 7 lb. ...	2	
Tongs, fire, large size, pairs	2	
Do. shoe-turning ...	2	
Pritchels ...	4	
Poker, 3 feet long ...	1	
Shovel ...	1	
Vice, medium, 70 lb. ...	1	

The proportion given for a British Cavalry regiment is for three shoeing sheds. The scale for the Royal Artillery is per battery, and is in addition to its field forge. Space should be provided in each shed, so that the battery forge, when removed from the forge wagon, can be set up for use in the shed when required.

List of Fencing Materials for Regiments of British Cavalry serving in India.

Articles.	Cavalry.		Articles.	Cavalry.	
	Allowance.	Annual Supply.		Allowance.	Annual Supply.
Practice swords ...	60	...	Muskets (with spring bayonet)	2	...
Foils, pairs ...	24	4	Pads { Body aprons ...	2	1
Spare blades ...	60	60	Leg do. ...	4	1
Gloves, right hand ...	24	12	Plastrons ...	4	1
Do. left hand ...	6	3	Single sticks with guards ...	12	...
Gymnastic shoes, sizes ...	36	18	Practice swords (Wilkinson's)	6	2
Helmets ...	12	2	Sticks, with iron hilts ...	12	3
Jackets, whole ...	6	1	Lead cutters ...	2	...
Do. half ...	18	3	Arm gauntlet ...	2	1
Masks, fencing ...	24	4	Mould for casting lead ...	1	...

MADRAS SCALE.—(Continued).

Ordnance.

1	2	3	4
Articles.	Proportion allowed by Regulation.	Surplus to be kept by Regiments.	Reasons for deviation from the Bengal Scale.
<i>Fixtures for Shoeing Sheds.</i>			
Anvils, 2½ cwts. ...	3	Per regiment of European Cavalry at stations where regular shoeing sheds have been authorized by Government.	None.
Bellows, smith, Europe, large	3		
Hammers, hand, from 2 to 3 lb. ...	6		
Hammers, sledge, medium, 7 lb. ...	6		
Tongs, fire, large size, pairs	6		
Do. shoe-turning ...	12		
Stamps, horse-shoe ...	9		
Pritchels ...	18		
Pokers, 3 feet long ...	3		
Shovels ...	3		
Vices, medium, 70 lb. ...	3	This scale applies to shoeing sheds of Royal Artillery.	Do.
Anvils, 2½ cwts. ...	1		
Bellows, smith, Europe, large	1		
Hammers, hand, from 2 to 3 lb. ...	2		
Hammers, sledge, medium, 7 lb. ...	2		
Tongs, fire, large size, pairs	2		
Do. shoe-turning ...	2		
Pritchels ...	4		
Poker, 3 feet long ...	1		
Shovel ...	1		
Vice, medium, 70 lb. ...	1		

The proportion given for a British Cavalry regiment is for three shoeing sheds. The scale for the Royal Artillery is per battery, and is in addition to its field forge. Space should be provided in each shed, so that the battery forge, when removed from the forge wagon, can be set up for use in the shed when required.

List of Fencing Materials for Regiments of British Cavalry serving in India.

Articles.	Cavalry.		Articles.	Cavalry.		Reasons for deviation from the Bengal Scale.
	Allowance.	Annual Supply.		Allowance.	Annual Supply.	
Practice swords ...	60	...	Muskets (with spring bayonet)...	2	...	
Foils, pairs ..	24	4	Pads { Body aprons ...	2	1	
Spare blades ...	60	60	Leg do. ...	4	1	
Gloves, right hand ...	24	12	Plastrons... ..	4	1	
Do. left hand ...	6	3	Single sticks with guards ...	12	...	
Gymnastic shoes, sizes ...	36	18	Practice swords (Wilkinson's)...	6	2	
Helmets ...	12	2	Sticks, with iron hilts ...	12	3	
Jackets, whole ...	6	1	Lead cutters ...	2	...	
Do. half ...	18	3	Arm gauntlet ...	2	1	
Masks, fencing ...	24	4	Mould for casting lead ...	1	...	

BENGAL SCALE. TABLE No. 157.—(Continued).

Fencing Materials for the use of Officers of Batteries of Artillery and Regiments of Cavalry and Infantry.

Fencing Materials for the use of Officers or Batteries of Artillery.									
1		2		3		4		5	
Stores		Battery of Artillery.		Regiment of Cavalry.		Regiment of Infantry.		Remarks.	
		1st Issue.	Annually.	1st Issue.	Annually.	1st Issue.	Annually.		
		2	1	8	2	10	2		
Foils (pairs) ...		4	2	16	8	20	10		
Blades (spare) ...		3	1	8	1	10	1		
Masks ...		3	1	10	5	12	6		
Gloves { Right hand ...		3	1	2	1	2	1		
Left hand ...		1	1	4	1	5	1		
Jackets, half leather ...		2	1	2	1	2	1		
Pads, breast ...		2	1	5	1	6	2		
Jackets, buff ...		2	1	6	3	6	2		
Single sticks { Guards ...		3	1	6	3	6	2		
Helmets ...		2	1	4	1	4	1		

List of Moveable Apparatus and Stores for Gymnasia, to be supplied by the Ordnance Department.

List of Moveable Apparatus and Stores for Gymnasia.							
Moveable Apparatus and Stores.	1st Class Experimental Gymnasia.		2nd Class Experimental Gymnasia.		Regimental Gymnasia.		Remarks.
	1st Issue.	Annual Supply.	1st Issue.	Annual Supply.	1st Issue.	Annual Supply.	
Dumb Bells (pairs).	10 lb. ...	8	...	4	...	2	...
	12 „ ...	8	...	4	...	2	...
	14 „ ...	8	...	8	...	4	...
	16 „ ...	20	...	16	...	4	...
	18 „ ...	20	...	20	...	4	...
	20 „ ...	20	...	12	...	4	...
	22 „ ...	8	...	...	...	2	...
	24 „ ...	8	...	8	...	2	...
	28 „ ...	4	...	...	...	1	...
	30 „ ...	4	...	4	...	...	...
	32 „ ...	4	...	...	...	...	...
	36 „ ...	4	...	4	...	...	...
Bar Bells ...	40 „ ...	4	...	...	...	...	...
	10 lb. ...	4	...	4	...	2	...
	12 „ ...	6	...	6	...	4	...
	16 „ ...	12	...	8	...	6	...
	18 „ ...	12	...	8	...	6	...
	20 „ ...	4	...	4	...	2	...
	22 „ ...	2	...	2	...	2	...
	24 „ ...	2	...	2	...	1	...
	28 „ ...	2	...	2	...	1	...
	30 „ ...	2	...	2	...	1	...
	36 „ ...	2	...	2	...	...	...
	40 „ ...	2	...	...	...	...	...

MADRAS SCALE.—(Continued).

Fencing Materials for the use of Officers of Batteries of Artillery and Regiments of Cavalry and Infantry.

1	2		3		4		5	6
Stores.	Battery of Artillery.		Regiment of Cavalry.		Regiment of Infantry.		Remarks.	Reasons for deviation from the Bengal Scale.
	1st Issue.	Annually.	1st Issue.	Annually.	1st Issue.	Annually.		
Foils (pairs)	2	1	8	2	10	2		
Blades (spare)	4	2	16	8	20	10		
Masks	3	1	8	1	10	1		
Gloves { Right hand ...	3	1	10	5	12	6		
Left hand	1	1	2	1	2	1		
Jackets, half leather ...	2	1	4	1	5	1		
Pads, breast	2	1	2	1	2	1		
Jackets, buff	2	1	5	1	6	2		
Singlesticks { Guards ...	3	1	6	3	6	2		
Helmets	2	1	4	1	4	1		

List of Moveable Apparatus and Stores for Gymnasia, to be supplied by the Ordnance Department.

Moveable Apparatus and Stores.			1st-Class Experimental Gymnasia.		2nd-Class Experimental Gymnasia.		Regimental Gymnasia.		Remarks.	Reasons for deviation from the Bengal Scale.
			1st Issue.	Annual Supply.	1st Issue.	Annual Supply.	1st Issue.	Annual Supply.		
Dumb Bells (pairs).	10 lb. ...	8	...	4	...	2	...			
	12 " ...	8	...	4	...	2	...			
	14 " ...	8	...	8	...	4	...			
	16 " ...	20	...	16	...	4	...			
	18 " ...	20	...	20	...	4	...			
	20 " ...	20	...	12	...	4	...			
	22 " ...	8	...	8	...	2	...			
	24 " ...	8	...	...	...	2	...			
	28 " ...	4	...	...	...	1	...			
	30 " ...	4	...	4	...	...	...			
	32 " ...	4	...	...	...	...	...			
	36 " ...	4	...	4	...	...	...			
40 " ...	4	...	...	...	...	...				
Bar Bells ...	10 lb. ...	4	...	4	...	2	...			
	12 " ...	6	...	6	...	4	...			
	16 " ...	12	...	8	...	6	...			
	18 " ...	12	...	8	...	6	...			
	20 " ...	4	...	4	...	2	...			
	22 " ...	2	...	2	...	1	...			
	24 " ...	2	...	2	...	1	...			
	28 " ...	2	...	2	...	1	...			
	30 " ...	2	...	2	...	1	...			
	36 " ...	2	...	2	...	...	...			
	40 " ...	2	...	...	...	...	...			

BENGAL SCALE. TABLE NO. 157.—(Continued).

List of Moveable Apparatus and Stores for Gymnasia, to be supplied by the Ordnance Department.—(Contd.).

1	2		3		4		5
Moveable Apparatus and Stores.	1st Class Experimental Gymnasia.		2nd Class Experimental Gymnasia.		Regimental Gymnasia.		Remarks.
	1st Issue.	Annual Supply.	1st Issue.	Annual Supply.	1st Issue.	Annual Supply.	
Mattresses, 6 feet by 6 feet (straw-stuffed) ...	...	6	...	6	...	2	
Clocks, 8-day ...	1	...	1	...	...	...	
Padlock and key ...	1	...	1	...	...	...	
Do. for compound gate ...	1	...	1	...	...	...	
Hammer, 1½ lb. ...	1	...	1	...	...	...	
Cold chisel ...	1	...	1	...	...	...	
Punch ...	1	...	1	...	...	...	
Pair of scissors...	1	...	1	...	...	...	
Files ...	2	...	2	...	...	...	
Vice ...	1	...	1	...	...	...	
Fencing Stores.							
Standard for height ...	1	...	1	...	1	...	
Weighing machine ...	1	...	1	...	1	...	
Belts { Small ...	50	10	40	8	20	5	
Medium ...	100	20	80	16	35	10	
Large ...	50	10	40	8	20	5	
Shoes { Size 7 ...	35	20	25	15	15	4	
" 8 ...	75	35	65	25	20	5	
" 9 ...	65	35	45	20	30	8	
" 10 ...	25	10	15	5	10	3	
Foils, pairs. ...	25	5	20	5	6	1	
Blades, spare ...	50	60	40	20	12	6	
Masks ...	12	3	10	2	4	1	
Gloves, right hand ...	25	12	20	10	6	2	
Do. left hand ...	6	3	6	3	2	1	
Jackets, buff ...	12	3	10	2	2	1	
Do. half ...	12	3	10	2	6	1	
Breast ...	4	2	3	1	1	1	
Body ...	4	2	3	1	2	1	
Leg ...	4	2	3	1	2	1	
Sticks with guards ...	12	2	10	2	4	1	
Do. without guards ..	60	60	...	10	...	4	
Helmets... ..	6	1	5	1	2	1	
Muskets, spring B ...	4	1	3	1	2	1	
Swords, Wilkinson's ...	4	1	3	1	2	1	
Arm gauntlets ...	2	1	1	1	1	1	
Lead cutter ...	1	...	1	...	1	...	
Mould for casting lead	1	...	1	...	1	...	
Tape, measuring, strong, 4 long and ½ inch wide, the inches to be very clearly marked and divided into eighths...	2	3	2	2	1	1	

MADRAS SCALE.—(Continued).

List of Moveable Apparatus and Stores for Gymnasia, to be supplied by the Ordnance Department.—(Contd.).

1	2		3		4		5	6
Moveable Apparatus and Stores.	1st Class Experimental Gymnasia.		2nd Class Experimental Gymnasia.		Regimental Gymnasia.		Remarks.	Reasons for deviation from the Bengal Scale.
	1st Issue.	Annual Supply.	1st Issue.	Annual Supply.	1st Issue.	Annual Supply.		
Mattresses, 6 feet by 6 feet (straw-stuffed) ...	...	6	...	6	...	2		
Clocks, 8-day ...	1	...	1	...	...	...		
Padlock and key ...	1	...	1	...	...	...		
Do. for compound gate ...	1	...	1	...	...	...		
Hammer, 1½ lb. ...	1	...	1	...	...	...		
Cold chisel ...	1	...	1	...	...	...		
Punch ...	1	...	1	...	...	...		
Pair of scissors ...	1	...	1	...	...	...		
Files ...	2	...	2	...	...	...		
Vice ...	1	...	1	...	...	...		
Fencing Stores.								
Standard for height ...	1	...	1	...	1	...		
Weighing machine ...	1	...	1	...	1	...		
Belts { Small ...	50	10	40	8	20	5		
Medium ...	100	20	80	16	35	10		
Large ...	50	10	40	8	20	5		
Shoes { Size 7 ...	35	20	25	15	15	4		
" 8 ...	75	35	65	25	20	5		
" 9 ...	65	35	45	20	30	8		
" 10 ...	25	10	15	5	10	3		
Foils, pairs ...	25	5	20	5	6	1		
Blades, spare ...	50	60	40	20	12	6		
Masks ...	12	3	10	2	4	1		
Gloves, right hand ...	25	12	20	10	6	2		
Do. left hand ...	6	3	6	3	2	1		
Jackets, buff ...	12	3	10	2	2	1		
Do. half ...	12	3	10	2	6	1		
Pads { Breast ...	4	2	3	1	1	1		
Body ...	4	2	3	1	2	1		
Leg ...	4	2	3	1	2	1		
Sticks with guards ...	12	2	10	2	4	1		
Do. without guards ...	60	60	...	10	...	4		
Helmets ...	6	1	5	1	2	1		
Muskets, spring B ...	4	1	3	1	2	1		
Swords, Wilkinson's ...	4	1	3	1	2	1		
Arm gauntlets ...	2	1	1	1	1	1		
Lead cutter ...	1	...	1	...	1	...		
Mould for casting lead ...	1	...	1	...	1	...		
Tape, measuring, strong, 4 long, and ½-inch wide, the inches to be very clearly marked and divided into eighths...	2	3	2	2	1	1		

BENGAL SCALE. TABLE No. 157.—(Continued).

List of Fencing and Gymnastic Stores to be supplied to Detached Wings of European Troops and Batteries of Royal Artillery.

	1	2	3
Description.	1st Issue.	Annually.	
Dumb Bells (pairs) ... { 10 lb.	1	...	
{ 12 "	1	...	
{ 14 "	2	...	
{ 16 "	2	...	
{ 18 "	2	...	
{ 20 "	2	...	
{ 22 "	1	...	
{ 24 "	1	...	
Bar Bells ... { 12 lb.	2	...	
{ 16 "	2	...	
{ 18 "	2	...	
{ 20 "	2	...	
{ 22 "	2	...	
{ 24 "	1	...	
{ 28 "	1	...	
Standard for height	1	...	
Weighing machine	1	...	
Belts { Small	10	3	
{ Medium	15	5	
{ Large	5	2	
Shoes (pairs), size 7	5	2	
Do. do. do. 8	10	3	
Do. do. do. 9	10	3	
Do. do. do. 10	5	2	
Foils, pairs	2	1	
Blades, spare	6	3	
Masks	4	1	
Gloves, right hand	4	1	
Do. left hand	2	1	
Jackets, buff	4	1	
Do. half	4	1	
Pads { Breast	1	1	
{ Body	2	1	
{ Leg	2	1	
Sticks with guards	2	...	
Sticks	...	4	
Helmets	2	1	
Muskets, Spring B	2	1	
Swords, Wilkinson's	2	1	
Mattresses, 6' x 6'	2	1	
Tapes, measuring	1	1	

MADRAS SCALE.—(Continued).

List of Fencing and Gymnastic Stores to be supplied to Detached Wings of European Troops and Batteries of Royal Artillery.

1					2	3	4
Description.					1st Issue.	Annually.	Reasons for deviation from the Bengal Scale.
Dumb Bells (pairs).	10 lb.	...	...	...	1	...	
	12 "	...	...	...	1	...	
	14 "	...	...	...	2	...	
	16 "	...	...	...	2	...	
	18 "	...	...	...	2	...	
	20 "	...	...	...	2	...	
	22 "	...	...	...	1	...	
	24 "	...	...	...	1	...	
Bar Bells ...	12 lb.	...	...	...	2	...	
	16 "	...	...	...	2	...	
	18 "	...	...	...	2	...	
	20 "	...	...	...	2	...	
	22 "	...	...	...	2	...	
	24 "	...	...	...	1	...	
	28 "	...	...	...	1	...	
Standard for height					1	...	
Weighing machine					1	...	
Belts {	Small	...	...	...	10	3	
	Medium	...	...	...	15	5	
	Large	...	...	...	5	2	
Shoes (pairs), size 7					5	2	
Do. do. do. 8					10	3	
Do. do. do. 9					10	3	
Do. do. do. 10					5	2	
Foil, pairs					2	1	
Blades, spare					6	3	
Masks					4	1	
Gloves, right hand					4	1	
Do. left hand					2	1	
Jackets, buff					4	1	
Do. half					4	1	
Pads {	Breast	...	...	...	1	1	
	Body	...	...	...	2	1	
	Leg	...	...	...	2	1	
Sticks with guards					2	...	
Sticks					...	4	
Helmets					2	1	
Muskets, Spring B					2	1	
Swords, Wilkinson's					2	1	
Mattresses, 6' x 6'					2	1	
Tapes, measuring					1	1	

BENGAL SCALE—TABLE No. 148—(Continued).

Public Works.

Hospitals for Natives.

1	2	3	4	5	6	7	8
Articles.	Native Cavalry.	Native Infantry.	Station Staff Hospitals.	Ordnance Hospital, Ferozepore.	Garrison Hospitals.	Lock Hospitals	Remarks.
A.							
Almirahs, large, for instruments and stores ...	1	1	1	1	1	1	
Almirahs, small, for poisons	1	1	1	1	1	1	
B.							
Baths, portable (wheels) ...	1	1	1	1	1	1	
Beds, fracture ...	2	1	1	1	1	...	
Board, inventory ...	1	1	1	1	1	1	
Book-case (hospital pattern)	1	1	...	...	...	...	
Box, dry-earth ...	1	1	1	1	1	1	
Box, ice ...	...	...	...	1	...	...	
C.							
Carts, filth ...	1	1	1	1	1	1	
Chair, cane-bottomed, for office ...	2	2	1	2	1	1	
Charpoys ...	25	57	12	30	6	12	
F.							
Filter water-stand for holding eight ghurrahs ...	1	1	1	1	1	1	
Forms, without backs, 5 feet, for out-door patients ...	1	1	1	1	...	...	
Forms, with backs, small ..	...	...	...	...	1	...	
Frame for diet scale ...	...	...	...	...	1	...	
G.							
Grating, 8' x 6', for wash-house ...	1	1	1	1	1	1	
H.							
Head rests (double incline)	2	4	1	1	1	...	
Hoe (phowrah) ...	1	1	1	1	1	1	
L.							
Lamp-rod ...	...	...	One for each hanging lamp.				
Do. stools ...	1	1	1	1	1	1	
M.							
Mallet ...	1	1	1	1	1	1	
P.							
Padlock and key ...	...	...	One for each hasp in use.				
Punkah fringe and cane ...	...	...	...One for medical officer's room.				
R.							
Receptacles for privy ...	2	2	2	2	2	2	

MADRAS SCALE—(Continued).

Commissariat Department.

Hospitals for Natives.

1	2	3	4	5	6	7	8	9
Articles.	Native Cavalry.	Native Infantry.	Station Staff Hospitals.	Ordnance Hospitals.	Garrison Hospitals.	Lock Hospitals.	Remarks.	Reasons for deviation from the Bengal Scale.
A.								
Almirahs, large, for instruments and stores... ..	1	1	1	...	1	1		
Almirahs, small, for poisons	1	1	1	...	1	1		
B.								
Baths, portable (wheels) ...	1	1	1	...	1	1		
Beds, fracture	2	1	1	...	1	1		
Board, inventory	1	1	1	...	1	1		
Book-case (hospital pattern).	1	1	...	...	1	1		
Box, dry-earth	1	1	1	...	1	1		
C.								
Carts, filth	1	1	1	...	1	1		
Chair, cane-bottomed, for office	2	2	1	...	1	1		
Charpoys, or cots, iron ...	25	57	12	...	6	12		
F.								
Filter water-stand, for holding eight ghurrahs ...	1	1	1	...	1	1		
Forms, without backs, 5 feet, for out-door patients ...	1	1	1	...	1	...		
Forms, with backs, small ...	...	...	...	...	1	...		
Frame for diet scale ...	...	...	...	...	...	...		
G.								
Grating, 8' x 6', for wash-house	1	1	1	...	1	1		
H.								
Head-rests (double incline)	2	4	1	...	1	1		
Hoe (phowrah)	1	1	1	...	1	1		
L.								
Lamp-rod	...	...	One for each hanging lamp.			1	1	
Do. stools... ..	1	1	1	...	1	1		
M.								
Mallet	1	1	1		1	1		
P.								
Padlock and key	...	...	One		...	...		
Punkah fringe and cane ...	...	...	One for		...	...		
R.								
Receptacles for privy ...	2	2						

Iron cots are at present issued for Native Hospitals in the Madras Presidency, as per Commissariat Code of 1878, para. 1004.

Iron cots are at present issued for Native Hospitals in the Madras Presidency, as per Commissariat Code of 1878, para. 1004.

BENGAL SCALE—TABLE No. 148—(Continued).

Public Works.
Hospitals for Natives.

1	2	3	4	5	6	7	8
Articles.	Native Cavalry.	Native Infantry.	Station Staff Hospitals.	Ordnance Hospital, Ferozepore.	Garrison Hospitals.	Lock Hospitals.	Remarks.
S.							
Screen, moveable, to put round the bed of a dying man	1	1	1	1	1	...	
Scoop	1	1	1	1	1	1	
Scraper	1	1	1	1	1	1	
Sieve	1	1	1	1	1	1	
Stand, wash-hand, and towel rack for surgery	1	1	1	1	1	1	When fuel is sanctioned.
Stoves or braziers	...	...	One for each ward	...	...	...	
Stand, surhai (to hold two surhais)	1	1	1	1	1	1	
T.							
Table, camp, small... ..	1	1	...	...	...	...	
Do. dispensary or compounding... ..	1	1	1	1	1	1	
Do. prescribing, small, portable	1	1	1	1	1	1	
Do. writing, small, 3' x 1' 8"	...	...	1	1	1	1	
Do. dissecting, with rest	1	1	1	1	1	...	
Ticket frame, bed	25	57	12	30	6	12	
Tray, dressing	1	1	1	1	1	1	
Trunk, camel, pairs, with moveable trays	1	1	...	...	...	...	

NOTE.—Almirahs, bath, buckets, &c., &c., to be replaced only after being pronounced unserviceable by a Committee of Survey.
 II. The cost of the furniture included in this Table to be supplied to Lock-hospitals will, whenever practicable, be borne by Cantonment Funds.

Commissariat.
Hospitals for Natives.

Articles.	Native Cavalry.	Native Infantry.	Station Staff Hospitals.	Ordnance Hospital, Ferozepore.	Garrison Hospitals.	Lock Hospitals.	Remarks.
SECTION I.							
MISCELLANEOUS ARTICLES.							
B.							
Basin, earthen, large, glazed	3	3	3	3	3	3	Per quarter.
Do. small, for washing sores, &c.	6	6	6	6	6	12	do.
Do. brass*	1	1	...	...	...	...	
Burners, glass, for common oil-lamps.			One for each lamp in use.				Renewals 5 per cent. monthly on the number in use.

* Till condemned by Committee of Survey.

MADRAS SCALE—(Continued).

Commissariat Department.

Hospitals for Natives.

1	2	3	4	5	6	7	8	9
Articles.	Native Cavalry.	Native Infantry.	Station Staff Hospitals.	Ordnance Hospital.	Garrison Hospitals.	Lock Hospitals.	Remarks.	Reasons for deviation from the Bengal Scale.
S.								
Screen, moveable, to put round the bed of a dying man	1	1	1	...	1	1		
Scoop	1	1	1	...	1	1		
Scraper	1	1	1	...	1	1		
Sieve	1	1	1	...	1	1		
Stand, wash-hand, and towel rack for surgery... ..	1	1	1	...	1	1		
Stoves or braziers	...	...	One for each ward	...	...	...	When fuel is sanctioned.	
Stand, surhai, (to hold two surhais)	1	1	1	...	1	1		
T.								
Table, camp, small... ..	1	1	...	...	...	...		
Do. dispensary or compounding... ..	1	1	1	...	1	1		
Do. prescribing, small, portable	1	1	1	...	1	1		
Do. writing, small, 3' x 1' 8"	...	...	1	...	1	1		
Do. dissecting, with rest	1	1	...	...	1	...		
Ticket frame, bed	25	57	12	...	6	12		
Tray, dressing	1	1	1	...	1	1		
Trunk, camel, pairs, with moveable trays	1	1	...	...	...	...		

NOTE.—Almirahs, bath, buckets, &c., &c., to be replaced only after being pronounced unserviceable by a Committee of Survey.
 The cost of the furniture included in this Table to be supplied to Lock-hospitals will, whenever practicable, be borne by Cantonment Funds.

BENGAL SCALE—TABLE No. 148—(Continued).

Public Works.

Hospitals for Natives.

1	2	3	4	5	6	7	8
Articles.	Native Cavalry.	Native Infantry.	Station Staff Hospitals.	Ordnance Hospital, Ferozepore.	Garrison Hospitals.	Lock Hospitals.	Remarks.
S.							
Screen, moveable, to put round the bed of a dying man	1	1	1	1	1	...	
Scoop	1	1	1	1	1	1	
Scraper	1	1	1	1	1	1	
Sieve	1	1	1	1	1	1	
Stand, wash-hand, and towel rack for surgery	1	1	1	1	1	1	
Stoves or braziers	...	...	One for each ward	...	...	...	When fuel is sanctioned.
Stand, surhai (to hold two surhais)	1	1	1	1	1	1	
T.							
Table, camp, small	1	1	...	...	...	...	
Do. dispensary or compounding	1	1	1	1	1	1	
Do. prescribing, small, portable	1	1	1	1	1	1	
Do. writing, small, 3' x 1' 8"	...	...	1	1	1	1	
Do. dissecting, with rest	1	1	1	1	1	1	
Ticket frame, bed	25	57	12	30	6	12	
Tray, dressing	1	1	1	1	1	1	

These articles are at present issued to the Hospitals in the Madras Presidency as per Comdant's Circular of 1876, para. 1004. They are not included in the Bengal Scale.

MADRAS SCALE—(Continued).

Commissariat Department.

Hospitals for Natives.

1	2	3	4	5	6	7	8	9
Articles.	Native Cavalry.	Native Infantry.	Station Staff Hospitals.	Ordnance Hospital.	Garrison Hospitals.	Lock Hospitals.	Remarks.	Reasons for deviation from the Bengal Scale.
S.								
Screen, moveable, to put round the bed of a dying man	1	1	1	...	1	1		
Scoop	1	1	1	...	1	1		
Scraper	1	1	1	...	1	1		
Sieve	1	1	1	...	1	1		
Stand, wash-hand, and towel rack for surgery	1	1	1	...	1	1		
Stoves or braziers	...	...	One for each ward	...	...	...	When fuel is sanctioned.	
Stand, surhai (to hold two surhais)	1	1	1	...	1	1		
T.								
Table, camp, small	1	1	...	...	...	...		
Do. dispensary or compounding	1	1	1	...	1	1		
Do. prescribing, small, portable	1	1	1	...	1	1		
Do. writing, small, 3' x 1' 8"	...	...	1	...	1	1		
Do. dissecting, with rest	1	1	1	...	1	1		
Ticket frame, bed	25	57	12	...	6	12		
Tray, dressing	1	1	1	...	1	1		
Trunk, camel, pairs, with moveable trays	1	1	...	...	...	...		

NOTE.—Almirahs, bath, buckets, &c., &c., to be replaced only after being pronounced unserviceable by a Committee of Survey. The cost of the furniture included in this Table to be supplied to Lock-hospitals will, whenever practicable, be borne by Cantonment Funds.

Commissariat.

Hospitals for Natives.

Articles.	Native Cavalry.	Native Infantry.	Station Staff Hospitals.	Garrison Hospitals.	Lock Hospitals.	Remarks.	Reasons for deviation from the Bengal Scale.
SECTION I.							
MISCELLANEOUS ARTICLES.							
B.							
Basin, earthen, large, glazed	3	3	3	3	3	Per quarter.	
Do. small, for washing sores, &c.	6	6	6	6	12	Do.	
Do. brass*	1	1	...	...	...	...	
Burners, glass, for common oil-lamps.	One for each lamp in use.						Renewals 5 per cent. monthly on the number.

BENGAL SCALE—TABLE No. 148—(Continued).

Commissariat.

Hospitals for Natives.

1	2	3	4	5	6	7	8
Articles.	Native Cavalry.	Native Infantry.	Station Staff Hospitals.	Ordnance Hospital, Ferozepore.	Garrison Hospitals.	Lock Hospitals.	Remarks.
SECTION I.							
MISCELLANEOUS ARTICLES—(Continued).							
C.							
Chick, coarse,* with binding rope and nails for hanging	One for each opening, hung inside of outer arches, or for each outside door and window when there is no verandah.						Renewals 15 per cent. monthly.
Chimneys for kerosine lamps	...	...	One per burner	...	...	...	
Corkscrew*...	1	1	1	1	1	1	
Cotton for wicks of common oil-lamps...	Half a chittack monthly for each lamp with two wicks.						
Cups, spitting, country, earthenware	25	57	12	30	6	12	Per quarter.
Crutches,* pairs	1	1	...	1	1	...	
D.							
Dooly, army, with cover and bedding.	One per hospital, Native Cavalry and Infantry. One for a detached wing of do. do. One for each of the garrison hospitals of Fort William, Allahabad, Chunar and Agra.						For Surgery.
Dusters*	6	6	3	3	6	3	
Degchies, brass, 4 gallons, for heating water*	1	1	1	1	1	...	
G.							
Ghurrahs	9	9	9	9	9	9	Per quarter.
L.							
Lanterns for candles	One for Surgery when a hurricane lamp is not supplied.						
Lamp, square, for Native Hospitals*	...	...	One for each ward.	...	...	...	
Lamp, kerosine, with burner, hurricane*	1	1	1	1	1	1	For Surgery.
M.							
Mat, door	1	1	1	1	1	...	For Entrance.
N.							
Nails for suspending bed-head-tickets	...	...	As required.	...	...	...	
P.							
Pettarabs for medicines, pairs	1	1	...	...	...	...	
Purdabs, with ropes for hanging and tying*	...	...	One for each end of ward.	...	...	...	
Pans, privy, glazed†	20	36	10	20	10	12	
S.							
Stomach warmer, tin*	1	1	1	1	1	1	
T.							
Thread for stitching bandages.	As required, but not exceeding one reel per quarter.						
Tubs, half-cask, for bathing*	2	2	2	2	1	...	
W.							
Wick-holder, in	...	...	One for each common oil-burner.	...	...	...	

* Till condemned by Committee of Survey.
† Renewals, 25 per cent. monthly on the number in use.

MADRAS SCALE—(Continued).

Commissariat.

Hospitals for Natives.

1	2	3	4	5	6	7	8
Articles.	Native Cavalry.	Native Infantry.	Station Staff Hospitals.	Garrison Hospitals.	Lock Hospitals.	Remarks.	Reasons for deviation from the Bengal Scale.
SECTION I.							
MISCELLANEOUS ARTICLES—(Continued).							
C.							
Chick, coarse,* with binding rope and nails for hanging.	One for each opening, hung inside of outer arches, or for each outside door and window when there is no verandah.						Renewals 15 per cent. monthly.
Chimneys for kerosine lamps	...	...	One per burner	...	...	...	
Corkscrew*...	1	1	1	1	1	1	
Cotton for wicks of common oil-lamps.	Half a chittack monthly for each lamp with two wicks.						
Cups, spitting, country, earthenware	25	57	12	6	12	...	Per quarter.
Crutches,* pairs	1	1	...	1	...	...	
D.							
Dooly, army, with cover and bedding.	One per hospital, Native Cavalry and Infantry. One for a detached wing of do. do. One for each of the garrison hospitals of						
Dusters*	6	6	3	6	3	...	For Surgery.
Degchies, brass, 4 gallons, for heating water*	1	1	1	1	...	...	
G.							
Ghurrahs	9	9	9	9	9	9	Per quarter.
L.							
Lanterns for candles	One for Surgery when a hurricane lamp is not supplied.						
Lamp, square, for Native Hospitals*	...	...	One for each ward.	...	...	...	
Do. kerosine, with burner, hurricane*	1	1	1	1	1	1	For Surgery.
M.							
Mat, door*	1	1	1	1	...	...	For Entrance.
N.							
Nails for suspending bed-head-tickets	...	...	As required.	...	...	...	
P.							
Pettarabs for medicines, pairs	1	1	...	...	...	...	
Purdabs, with ropes for hanging and tying*	...	...	One for each end of ward.	...	...	...	
Pans, privy, glazed†	20	36	10	10	12	...	
S.							
Stomach warmer, tin*	1	1	1	1	1	1	
T.							
Thread for stitching bandages.	As required, but not exceeding one reel per quarter.						
Tubs, half-cask, for bathing*	3†	3†	2	1	...	...	
W.							
Wick-holder, tin	...	...	One for each common oil-burner.	...	...	...	

* Till condemned by Committee of Survey.
† Renewals, 25 per cent. monthly on the number in use.
‡ One for the special use of patients suffering from skin diseases.

BENGAL SCALE—TABLE No. 143—(Continued).

Commissariat.

Hospitals for Natives.

1	2	3	4	5	6	7	8
Articles.	Native Cavalry.	Native Infantry.	Station Staff Hospitals.	Ordnance Hospital, Ferozepore.	Garrison Hospitals.	Lock Hospitals.	Remarks.
SECTION II. BAZAAR MEDICINES.							
A.							
Quantity allowed for one Month.							
Alum for gargles ...	4 oz.	6 oz.	3 oz.	4 oz.	3 oz.	1 lb. 8 oz.	
Assafoetida ...	1 oz.	1½ oz.	1 oz.	1 oz.	8 drs.	...	
Bael fruit, preserved	...	...	As required.	...	...	...	
Camphor for liniments, &c.	4 oz.	6 oz.	2 oz.	4 oz.	2 oz.	...	
Ginger, dry...	2 oz.	4 oz.	2 oz.	2 oz.	2 oz.	...	
Gunda-berozza	...	...	As required.	...	...	...	
Kuth, catechu	2 oz.	2 oz.	1 oz.	2 oz.	1 oz.	...	
Kaladana (to save jalap)	1 lb. 4 oz.	1 lb. 8 oz.	1 oz.	12 oz.	12 oz.	...	
Mustard, Europe, for sinapisms	8 oz.	12 oz.	4 oz.	6 oz.	8 oz.	...	
Mustard-seed for plasters	1 lb.	1 lb. 8 oz.	8 oz.	6 oz.	...	...	
Oil, sennamum, for ointments	4 oz.	6 oz.	3 oz.	4 oz.	4 oz.	6 oz.	
Do. mustard, for liniments...	1 lb. 8 oz.	1 lb. 8 oz.	12 oz.	12 oz.	12 oz.	...	
Pepper, red, for cholera pills, gargles, &c.	8 drs.	1 oz.	8 drs.	8 drs.	8 drs.	8 drs.	
Do. black, for medicinal purposes	...	...	As required.	...	...	...	
Pomegranate-root	...	...	As required.	...	...	...	
Poppy-heads for stupes	...	...	As required.	...	...	...	
Rasout for eye-paste	8 drs.	1 oz.	8 drs.	8 drs.	8 drs.	1 oz.	
Sulphur, country, for fumigations	...	...	As required.	...	...	...	
Vinegar, Europe, for lotions	1 lb. 8 oz.	1 lb.	8 oz.	8 oz.	8 oz.	...	
Wax, white, for ointments...	4 oz.	4 oz.	2 oz.	2 oz.	4 oz.	6 oz.	
SECTION III. NECESSARIES.							
A.							
Arrowroot ...	...	...	As required.	...	...	...	
B.							
Baskets for sweepers No.	2	3	1	1	1	1	
Bladders, for ice applications	...	...	As required for special cases.	...	...	...	
Bottles, empty, quarts No.	6	12	6	6	6	...	
Do. do. pints No.	6	12	6	6	6	...	
Brandy ... Bottle	1	1	1	1	1	...	
Brooms for sweepers	2	2	1	2	1	...	

MADRAS SCALE.—(Continued).

Commissariat.

Hospitals for Natives.

1	2	3	4	5	6	7	8
Articles.	Native Cavalry.	Native Infantry.	Station Staff Hospitals.	Garrison Hospitals.	Lock Hospitals.	Remarks.	Reasons for deviation from the Bengal Scale.
SECTION II. BAZAAR MEDICINES.							
A.							
Quantity allowed for one Month.							
Alum for gargles ...	...	...	...	...	...	...	Is an article of Medical Store supply.
Assafoetida ...	...	...	As required.	...	...	...	Not necessary.
Bael fruit, preserved	...	...	...	...	...	...	
Camphor for liniments, &c.	...	...	...	...	...	...	An article of Medical Store supply.
Ginger, dry...	2 oz.	4 oz.	2 oz.	2 oz.	...	...	
Gunda-berozza	...	...	...	...	...	...	Not procurable in Southern India.
Kuth, catechu	...	...	...	...	...	...	An article of Medical Store supply.
Kaladana (to save jalap)	...	...	...	...	...	...	Do. do. do.
Mustard, Europe, for sinapisms	8 oz.	12 oz.	4 oz.	8 oz.	...	...	
Mustard seed for plasters	1 lb.	1 lb. 8 oz.	8 oz.	...	...	...	
Oil, sennamum, for ointments.	4 oz.	6 oz.	3 oz.	4 oz.	6 oz.	...	
Do. mustard, for liniments	...	...	...	...	...	...	
Pepper, red, for cholera pills, gargles, &c.	8 drs.	1 oz.	8 drs.	8 drs.	8 drs.	...	Not procurable in Southern India.
Do. black, for medicinal purposes	...	...	As required.	...	...	...	
Pomegranate-root	...	...	As required.	...	...	...	
Poppy-heads for stupes	...	...	As required.	...	...	...	
Rasout for eye-paste	...	...	...	...	...	...	
Sulphur, country, for fumigations	...	...	As required.	...	...	...	
Vinegar, Europe, for lotions	1 lb. 8 oz.	1 lb.	8 oz.	8 oz.	...	...	
Wax, white, for ointments.	4 oz.	4 oz.	2 oz.	4 oz.	6 oz.	...	
Additions.							
Hog's-lard...	...	...	...	...	...	As required ...	
"Oil, linseed" (instead of "Oil, mustard"), for liniments	12 oz.	1 lb.	...	...	...	As required.	
Orange Peel	8 oz.	8 oz.	...	...	...	...	
Salt common	...	...	...	...	...	...	
SECTION III. NECESSARIES.							
A.							
Arrowroot ...	...	...	As required.	...	...	...	
B.							
Baskets for sweepers No.	2	3	1	1	1	...	
Bladders, for ice applications	...	...	As required for special cases.	...	...	...	
Bottles, empty, quarts No.	6	12	6	6	...	...	
Do. do. pints	6	12	6	6	...	...	
Brandy ... Bottle	1	1	1	1	...	...	
Brooms for sweepers	2	2	1	1	...	...	

These articles are at present issued for Native Hospitals in the Madras Presidency as per Commissariat Code of 1878, para. 1004. They are not included in the Bengal Scale.

BENGAL SCALE. TABLE No. 148.—(Concluded).

Commissariat.

Hospitals for Natives.

1	2	3	4	5	6	7	8	
Articles.	Native Cavalry.	Native Infantry.	Station Staff Hospital.	Ordnance Hospital, Ferozepore.	Garrison Hospitals.	Lock Hospitals.	Remarks.	
SECTION III.								
NECESSARIES.—(Contd).								
P.								
Quantity allowed for one Month.								
Phials, common, for dispensing ...	1 doz.	1½ doz.	1 doz.	1 doz.	1 doz.	...		
Plantain leaves for dressing	...	According to certificate of expenditure.					6	
Pots, glazed, for lotions No. 6	6	6	3	3	3	...		
Poultice } Bran ... lb.	6	6	3	3	3	...		
Materials } Charcoal... „	12 oz.	1 lb.	12 oz.	12 oz.	12 oz.	...		
} Linseed-meal „	3	3	2	2	2	...		
S.								
Sago ...	...	...	As required.					
Silk, green, for eye-shades	...	...	As required.					
Soap, country, for washing bandages...	1 lb.	1 lb.	8 oz.	8 oz.	8 oz.	...		
Soap, Europe (carbolic acid) for Medical Officer's use ... Cake	1	1	1	1	1	1		
Soorahies for drinking water ... No.	2	2	2	2	2	2		
Spirits, rum, for general use	2 bot.	2 bot.	1 bot.	1 bot.	1 bot.	...		
Suet, mutton, for ointments	8 oz.	12 oz.	8 oz.	8 oz.	8 oz.	...		
Sugar for arrowroot and sago	As required. Not exceeding half weight of arrowroot and sago expended.							
T.								
Tape, country, for bandages	...	...	As required.					
Tow, for packing ...	...	...	As required.					
W.								
Wax-cloth, for packing, &c.	...	...	As required.					
Wicks, 9 inches long ...	...	Two for each hurricane lamp.						
Wine, port or sherry ...	...	According to certificate of expenditure.						
Wood, fire, for baths ... Seers	5	5	5	5	5	5		
Do. for infusions ... „	30	30	30	30	30	30	For each bath used.	
SECTION V.								
HOSPITAL BEDDING AND CLOTHING.								
Towels, hand (for medical officer's use) No. }	4	4	4	4	4	4	Until condemned by Committee of Survey. Do. do. do. Do. do. do.	
Blankets, country* ...	...	As required for special cases						
Pillows, large, tow ...	25	57	12	30	6	12		
SECTION VI.								
DISINFECTANTS.								
Carbolic-acid fluid† ...lb.	30	40	15	30	30	...	} Per annum.	
Macdougall's disinfecting powder† ... lb.	30	40	15	30	30			

* For Native Cavalry and Infantry.

† Hospitals, as required in special cases up to 15 per cent. of strength of regiment—

	Carbolic Acid.	Macdougall's Powder.
1st Class Lock Hospital	1b. 20	1b. 30
2nd Do. do.	1b. 15	1b. 20
3rd Do. do.	1b. 8	1b. 12
		per annum.

NOTE.—The above articles which are sanctioned, Medical Officers are given to understand are not to be indented for in full quantity, unless required and they are never to be exceeded except with the permission of the Deputy Surgeon-General upon full explanation.

MADRAS SCALE.—(Concluded).

Commissariat.

Hospitals for Natives.

1	2	3	4	5	6	7	8
Articles.	Native Cavalry.	Native Infantry.	Station Staff Hospitals.	Garrison Hospitals.	Lock Hospitals.	Remarks.	Reasons for deviation from the Bengal Scale.

SECTION III.

curtains with cot
or rods and top,
complete.

Palliassees ...

12 (for each Regiment in British Burmah.)

One for each cot in use ...

Quilts, cotton ...

Do. chintz ...

Trowsers, cotton ...

Do. flannel ...

30

6

6

6

30

6

6

6

As men cannot sleep
on iron cots without
palliassees.

For East Indians.

These articles are at present issued for Native Hospitals in the Madras Presidency as per Commissariat Code of 1878, para. 1004. They are not included in the Bengal Scale.

Additions "Native Hospitals—Section VI—Disinfectants."—Page 177.

Articles.	Sappers and Miners. European Non-Commissioned and Men.	Sappers and Miners. Natives.	Reasons for deviation from the Bengal Scale.
Carbolic Acid ... lb.	15	75	This scale is at present issued for Native Hospitals in the Madras Presidency as per Commissariat Code of 1878, para. 993.
Macdougall's Powder ... lb.	15	75	

Addition to Page 177 of the List.

1	2	3	4	5	6	7	8
Articles.	Native Cavalry.	Native Infantry.	Station Staff Hospitals.	Garrison Hospitals.	Lock Hospitals.	Remarks.	Reasons for deviation from the Bengal Scale.
Dry-earth ...	For all hospitals as required					If possible, the rubbish carts which carry away sweepings from the lines should take back dry-earth to the hospitals.	Absolutely necessary for present system of conservancy. This is at present issued for Hospitals in the Madras Presidency, as per Proceedings of Government, No. 2258 of 1869. It is not included in the Bengal Scale.

MADRAS SCALE—(Concluded).
Commissariat.
Hospitals for Natives.

1	2	3	4	5	6	7	8
Articles.	Native Cavalry.	Native Infantry.	Station Staff Hospitals.	Garrison Hospitals.	Lock Hospitals.	Remarks.	Reasons for deviation from the Bengal Scale.
SECTION III.							
NECESSARIES—(Contd).		Quantity allowed for one Month.					
P.							
Phials, common, for dispensing	1 doz.	1½ doz.	1 doz.	1 doz.	...		
Plantain leaves for dressing	According to certificate of expenditure.						
Pots, glazed, for lotions No.	6	6	3	3	6		
Bran	6	6	3	3	...		
Poultice { Charcoal	12 oz.	1 lb.	12 oz.	12 oz.	...		
Materials { Linseed-meal	3	3	2	2	...		
Rice for flour	3	3	2	2	...		
S.							
Sago	...	...	As required.				
Silk, green, for eye shades	...	...	As required.				
Soap, country, for washing bandages	1 lb.	1 lb.	8 oz.	8 oz.	...		
Soap, Europe (carbolic acid), for Medical Officer's use	1	1	1	1	1		
Scorahies for drinking water	2	2	2	2	2		
Spirits, rum or arrack, for general use	2 bots.	2 bots.	1 bot.	1 bot.	...		
Suet, mutton, for ointments	8 oz.	12 oz.	8 oz.	8 oz.	...		
Sugar for arrowroot and sago	As required. Not exceeding half weight of arrowroot and sago expended.						
T.							
Tape, country, for bandages	...	...	As required.				
Tow, for packing	...	...	As required.				
W.							
Wax-cloth for packing, &c.	...	...	As required.				
Wicks, 9 inches long	Two for each hurricane lamp.						
Wine, port or sherry	According to certificate of expenditure.						
Wood, fire, for baths	5	5	5	5	5	For each bath used.	
Do. for infusions	30	30	30	30	30		
SECTION V.							
HOSPITAL BEDDING AND CLOTHING.							
Towels, hand (for medical officers' use)	4	4	4	4	4	Until condemned by Committees of Survey. Do. do. do. Do. do. do.	
Blankets, country	As required for special cases						
Pillows, large, tow	25	57	12	6	12		
SECTION VI.							
DISINFECTANTS.							
Carbolic-acid fluid	30	40	15	30	...	} Per annum.	
Macdougall's disinfecting powder	30	40	15	30	†...		

* For Native Cavalry and Infantry.
† Hospitals, as required in special cases up to 15 per cent. of strength of regiment—
Carbolic Acid. Macdougall's Powder.
1st Class Lock Hospital 20 .. 30
2nd Do. do. 15 .. 20
3rd Do. do. 8 .. 12
} per annum.

NOTE.—The above articles which are sanctioned, Medical Officers are given to understand, are not to be indented for in full quantity unless required, and they are never to be exceeded except with the permission of the Deputy Surgeon-General upon full explanation.

1	2	3	4	5	6	7	8
Articles.	Native Cavalry.	Native Infantry.	Station Staff Hospitals.	Garrison Hospitals.	Lock Hospitals.	Remarks.	Reasons for deviation from the Bengal Scale.
B. Brooms, with long handles. <i>Vide</i> O.G., No. 3879 of 1871.							
C. Corks ... No. 6 | 6 | 6 | 6 | 6							
Coal tar for conservancy purposes. ... As prescribed.							
Cot for palliasses ... As prescribed.							
Cooking utensils ... As prescribed.							
"Chatties, large," instead of "naunds." ...							
E. Eggs ... As prescribed.							
"Goggles" G. ... 2 | 2 | 2 | 2 | 2							
Gin ... 3 | 3 | 3 | 3 | 3							
II. "Half-cask with covers," instead of "jallahs and covers." 1 | 2 | 1 | 1 | 1							
Honey ... 4 oz. | 4 oz. | ... | ... | ...							
I. Ice ... As prescribed.							
L. Lamp thread ... As prescribed.							
M. Musnucks for bhoasties ... 2 | 2 | ... | ... | ...							
N. Milk ... As prescribed.							
Nutton ... As prescribed.							
S. Straw ... As required.							
T. Toddy for poultices ... As required.							
Twine ... As required.							

These articles are at present issued for Native Hospitals in the Madras Presidency as per Commissariat Code of 1878, para. 1004. They are not included in the Bengal Scale.

Additions "Native Hospitals—Section V, Hospital Bedding and Clothing"—Page 177.

curtains with cot as or rods and top, complete.							
Palliasses ... One for each cot in use ...							
Quilts, cotton ... 30 | 30 | 30 | 30 | 30							
Do. chints ... 6 | 6 | 6 | 6 | 6							
Trowsers, cotton ... 6 | 6 | 6 | 6 | 6							
Do. flannel ... 6 | 6 | 6 | 6 | 6							

These articles are at present issued for Native Hospitals in the Madras Presidency as per Commissariat Code of 1878, para. 1004. They are not included in the Bengal Scale.

Additions "Native Hospitals—Section VI—Disinfectants"—Page 177.

Articles.	Sappers and Miners. European Non-Commissioned and Men.	Sappers and Miners. Natives.	Reasons for deviation from the Bengal Scale.
Carbolic Acid ... lb.	15	75	This scale is at present issued for Native Hospitals in the Madras Presidency as per Commissariat Code of 1878, para. 993.
McDougall's Powder ... lb.	15	75	

Addition to Page 177 of the List.

1	2	3	4	5	6	7	8
Articles.	Native Cavalry.	Native Infantry.	Station Staff Hospitals.	Garrison Hospitals.	Lock Hospitals.	Remarks.	Reasons for deviation from the Bengal Scale.
Dry-earth ...	For all hospitals as required					If possible, the rubbish carts which carry away sweepings from the lines should take back dry-earth to the hospitals. Absolutely necessary for present sanitary service. This is at present issued for Hospitals in the Madras Presidencies, as proceeding of Government, No 2258 of 1868 It is not included in the Bengal Scale	

Absolutely necessary for present system of conservancy. This is at present issued for Hospitals in the Madras Presidency, as per Proceedings of Government, No. 2283 of 1868. It is not included in the Bengal Scale.

Financial Department.

PROCEEDINGS of the MADRAS GOVERNMENT.

READ the following *Proce*

ings of the Public Works Deptth dated
10th February 1881 N^o 366 ul.

Order thereon 3^d March 1881 No. 36.

Recorded

2. Funds will be provided after
April 1881.

(True Extract)

(Witness)

Under Secretary

To The Public Works Department.