(1) பக்கங்களின் எண்ணிக்கை 34

(2) புதுக்கித் திருப்பிய நாள் 12-4-89

(3) ஆதாரங்குறிப்பவர் சுருக்கொப்பம்

தமிழ்நாடு ஆவணக் காப்பகம்.

தமிழ்நாடு அரசு

பொதுப்பணித் துறை

அரசாணை எண். 100 (W) அச்சகம்
மு. கோப்புத் தாள் எண். (Stage-IV) பலவகை

நாள் : 15-1-1890 19 .

மடிக்கவோ கண்டபடி கையாளவோ கூடாது

247

ஆவண. கா-1—18,006—15-5-87.

Enclosure to Director General of Railways' Circular No. 35 of 1889

1885 S.C
1

RATE LIST.

CLASS F.

STATION MATERIALS AND FENCING.

FOR 1888.

G. C. Press, Simla.—No. 1203 P. W. D.—3-12-89.—1,106.

Enclosure to Director General of Railways' Circular No. 35 of 1889.

100 S.C
2

RATE LIST.

CLASS F.

STATION MATERIALS AND FENCING.

FOR 1888.

Enclosure to Director General of Railways' Circular No. 35 of 1889.

CLASS OF STORES F.—STATION MATERIALS AND FENCING.

Contracted for in 1888.

Contract Number.	Articles.	Details.	Rate—Free on board. Amount. £	s.	d.	Unit.	Remarks.
1518	Apparatus, washing out.	For locomotive boilers	11	12	6	Set.	
1442	Cases, ticket ...	Double doors, complete, each containing 3 rows of 25 tubes each (each tube to hold 100 tickets), and 3 rows of 25 tubes each (each tube to hold 50 tickets).	8	12	0	Each.	
968	Clocks	Station	6	0	0	"	
1290	Cocks	Ball 1"	0	11	6	"	For the water-supply of the Sukkur Bridge Forts (Block houses).
		Brass tank 1", ...	0	10	9	"	
		" bit 1"	0	10	0	"	
		" stop 2"	1	19	0	"	
		Cast iron stop 2" } of latest improvement with part brass plugs	0	14	6	"	
		" stop 1" }	0	6	0	"	
1223	Cranes, water pillar, long neck.	6" with pipes, &c., complete	29	0	0	"	

CLASS OF STORES F.—STATION MATERIALS AND FENCING—*contd.*

Contracted for in 1888.

Contract Number.	Articles.	Details.	Rate—Free on board. Amount. £	s.	d.	Unit.	Remarks.
1564	Cranes, water pillar, long neck.	6" with pipes, &c., complete	32	10	0	Each.	
1280		8" Ditto ditto	42	15	0	"	Tracings £1-10-0 extra.
1335		8" complete with pipe connection	50	0	0	"	
1523		8" complete with reducing pipe to 6"	46	18	9	"	Designed to withstand the effects of frost.
1665		8" complete, without T pipes	46	10	0	"	
942		Complete	29	10	0	"	Designed to withstand the effects of frost.
1137		Valves 6" for—	3	0	0	"	
1309		Complete	30	0	0	"	
1622	Engines, steam pumping.	With boilers complete, 6 H. P., with suitable pumps for supplying water for the use of locomotives from wells 100 feet deep.	275	0	0	Each.	
		The general dimensions of the engines, boilers and pumps are as follow:—					
		Diameter of steam cylinder ... ... 8 inches					
		Length of stroke ... ... 10 inches					
		Diameter of boiler ... ... 3 feet 2 inches					
		Height of boiler ... ... 7 feet					

CLASS OF STORES F.—STATION MATERIALS AND FENCING—*contd.*

Contracted for in 1888.

Contract Number.	Articles.	Details.	Rate—Free on board. Amount. £	s.	d.	Unit.	Remarks.
1622	Engines, steam pumping—*continued.*	Number of conical water tubes in boiler ... 2					
		Diameter of pump barrel ... ... 6 inches.					
		Stroke of pumps (double acting) 12 inches, changeable to 8 inches.					
		Number of pumps (double acting) 2					
804		Balls, India-rubber, solid, $3\frac{3}{8}$" diameter, required for valves of—	0	4	6	Each.	
1695	Fencing or railing ...	Cast iron, ornamental, with panels and standards	0	5	6	Rg. foot.	
625	Fencing wire complete.	4 wire barb, single line, 4 miles, 3,880 feet, with 1 pair of splices, 1 winding strainer for standards, and 1 lever stretcher.	44	0	0	Mile.	
1378		4 wire barb, single line, 10 miles, with 1 pair of splices, 1 winding strainer for standard, and one lever stretcher.	44	2	0	"	
902	Fencing, wire; materials for—	Bolts, eye, straining, galvanized, with nuts and washers	0	16	0	Cwt.	
1029		Ditto ditto weighing 3,133 lbs. each, with 2 nuts and one washer each ...	15	2	6	Ton.	

CLASS OF STORES F.—STATION MATERIALS AND FENCING—*contd.*

Contracted for in 1888.

Contract Number.	Articles.	Details.	Rate—Free on Board. Amount. £	s.	d.	Unit.	Remarks.
1650	Fencing, wire; materials for—*continued.*	Bases (or sockets), cast iron, for intermediate and stiffening posts, weighing 20 lbs. each	2	19	0	Ton.	
1245		Bolts, eye, straining, galvanized, weighing 3,133 lbs., with 2 nuts and a washer each ...	16	12	6	„	
1528		Bolts, eye, straining, galvanized, weighing 3,133 lbs. each, with 2 nuts and 1 washer each	16	5	0	„	
1652		Ditto ditto ditto ditto ditto ditto ...	17	10	0	„	
1653		Bases (or sockets), cast iron, for intermediate and stiffening posts, weighing 20 lbs. each	0	3	7½	Cwt.	
1650		Pillars, cast iron, straining, weighing 2 cwt. 1 qr. 7 lbs. each	3	18	0	Ton.	
1651		Posts, wrought iron, intermediate, weighing 12·2 lbs. each	5	9	0	„	
		Ditto stiffening, weighing 35·6 lbs. each	6	9	0	„	
		Wedges, weighing 5·8 oz. each	13	2	6	„	
1653		Pillars, cast iron, straining, weighing 2 cwt. 1 qr. 7 lbs. each	0	4	1½	Cwt.	
1652		Posts, wrought iron, intermediate, weighing 12·2 lbs. each	0	6	10½	„	
		Ditto stiffening, weighing 35·6 lbs. each	0	8	4½	„	
		Wedges, weighing 5·8 oz. each	0	14	4½	„	
1247		Posts, wrought iron, intermediate, weighing 12·2 lbs. each	5	12	6	Ton.	
1247		Wedges, wrought iron, weighing 5·8 oz.	13	7	6	„	

CLASS OF STORES F.—STATION MATERIALS AND FENCING—*contd.*

Contracted for in 1888.

Contract Number.	Articles.	Details.	Rate—Free on Board. Amount. £	s.	d.	Unit.	Remarks.
948	Fencing, wire; materials for—*continued.*	Wire, strand, in 450 yards coils, galvanized, No. 14 S W. G., 7 strands	14	10	0	Ton.	
1028		Wire, strand, in 450 yards coils, galvanized, No. 14 S. W. G., 7 strands	12	5	0	„	
1171		Ditto ditto ditto ditto	12	5	0	„	
1246		Ditto ditto ditto ditto	12	10	0	„	
1667		Wire, strand, in 450 yards coils, galvanized, No. 14 S. W. G., 7 strands	13	8	6	„	
1549		Wire, solid, galvanized, No. 6 gauge, weighing 526 lbs. per mile	9	4	6	„	
930	Hydrants.	With stand pipes complete	7	12	0	Each.	
1222		With gunmetal caps and chains, standard with 30′ × 2½″ leather hose, branch pipes and unions complete.	7	12	0	„	
1336		Cast iron, with hose and nozzle complete	8	0	0	„	
1519		Ditto ditto	8	5	6	„	
1608		Ditto ditto with gun metal caps and chains	7	15	0	„	Tracings £0-10-0 per set.
1608		With hose and nozzle complete, together with 1 gun metal coupling for 2½″ hose pipe and 1 two inch bore, galvanized iron, quarter bend, to be supplied as extras with each hydrant.	8	0	0	„	Ditto.

CLASS OF STORES F.—STATION MATERIALS AND FENCING—*contd.*

Contracted for in 1888.

Contract Number.	Articles.	Details.	Rate—Free on Board. Amount. £	s.	d.	Unit.	Remarks.
800	Latrine	Fittings, cast iron, complete, for a range of six seats	31	9	3	Set.	The rate per ton is quoted at 15-7-0.
1232	Machines, ticket printing.	Brass numbering wheels for Waterlow's Patent	2	10	9	Set	
820	Pipes, iron, cast.	Spigot and socket in 9' lengths, 6" bore, $\frac{7}{16}$" thick	4	12	6	Ton.	cwt. qr. lbs. Estimated weight of a 9" pipe is 2 1 27
		Ditto in 10' ditto ditto					cwt. qr. lbs. and of a 10 feet pipe 2 3 2.
1072		Spigot and socket in 9' lengths, 6" bore, $\frac{1}{2}$" thick, straight pipes	3	17	6	"	cwt. qr. lbs. Weight of each pipe 2 3 7.
1160		Ditto ditto 6" bore, $\frac{7}{16}$" thick	4	10	9	"	
1527		Ditto ditto 8" bore, $\frac{1}{2}$" thick	3	17	6	"	cwt. qr. lbs. Estimated weight per length 3 2 23.
1618		Ditto ditto 6" bore, $\frac{7}{16}$" thick	4	2	6	"	
		Flange and spigot ditto 6" bore, $\frac{7}{16}$" thick	5	15	0	"	
1557		Double flanged, 3" bore, $\frac{3}{8}$" thick, in 9' lengths, with bolts and nuts complete ...	6	5	0	"	Diameter and thickness of flange respectively $7\frac{3}{4}$" and $\frac{3}{4}$".
		Ditto 6" bore ditto ditto	5	17	6	"	Diameter and thickness of flange respectively $11\frac{1}{4}$" and $\frac{3}{4}$".
1248		Spigot and faucit in 9' lengths, 6" bore, $\frac{7}{16}$" thick (joints turned and bored) ...	4	5	0	"	

CLASS OF STORES F.—STATION MATERIALS AND FENCING—*contd.*

Contracted for in 1888.

Contract Number.	Articles.	Details.	Rate—Free on Board. Amount. £	s.	d.	Unit.	Remarks.
1122	Pipes, iron, cast—*contd.*	Spigot and socket, in 9' lengths, 6" bore, $\frac{7}{16}$" thick (Joints turned and bored)	4	1	6	Ton.	
		Ditto ditto 4" bore, $\frac{3}{8}$" thick (Joints turned and bored)	4	3	6	"	cwt. qr. lbs. Estimated weight per length 1 1 20.
1275		Ditto ditto 4" bore, $\frac{3}{8}$" thick (joints turned and bored) ...	4	7	6	"	
1323		Ditto ditto 4" bore, $\frac{3}{8}$" thick (joints turned and bored)	4	7	6	"	
		Ditto ditto 6" bore, $\frac{1}{2}$" "					
1763		Spigot and faucit, in 9' lengths, 4" bore, $\frac{3}{8}$" thick (joints turned and bored) ...	4	8	6	"	
1160	Pipes, iron, cast; connections for—	Bends, flange and spigot, right angle, for 6" pipes	0	11	6	Each.	
		120° Bends for 4" piping socket and spigot, turned and bored joints	9	0	0	Ton.	
1275		Ditto ditto ditto	10	10	0	"	
1527		Bends, right-angled, socket and spigot, for 8" piping	9	10	0	"	
1557		Bends for 6" piping	11	0	0	"	
		Bolts and nuts for 3" and 6" piping	20	0	0	"	
1618		Bends, right angle, double flange, for 6" piping	11	0	0	"	
		Bolts, nuts and washers for 6" piping	24	0	0	"	
1072		Quarter bends, spigot and socket, for 6" piping	7	12	6	"	

CLASS OF STORES F.—STATION MATERIALS AND FENCING—*contd.*

Contracted for in 1888.

Contract Number.	Articles.	Details.	Rate—Free on board. Amount. £	s.	d.	Unit.	Remarks.
1248	Pipes, iron, cast; connections for—*continued.*	Quarter bends spigot and faucit, for 6" piping	9	0	0	Ton.	
		Ditto ditto 4" piping					
1275		Ditto spigot and socket, for 4" piping	10	10	0	"	
1328		Ditto ditto 6" piping	10	10	0	"	
		Ditto ditto 4" piping					
1072		Tee pieces for 6" piping	7	12	6	"	
1323		Ditto for 4" piping	10	10	0	"	
1527		Ditto socket ended, for 8" piping	9	10	0	"	
1618		Ditto socket and spigot, for 6" piping	11	0	0	"	
891	Pipes, iron, wrought.	Gas, with screwed ends and one socket to each length, in lengths of 14 feet each—					
		½" bore, No. 10 S. W. G.	0	1	6½	Per length.	
		¾" " 9 S. W. G.	0	2	1½	"	
		¾" " 10 S. W. G.	0	1	9	"	
		1" " 9 S. W. G.	0	2	5½	"	
		1½" " 8 S. W. G.	0	4	1	"	

CLASS OF STORES F.—STATION MATERIALS AND FENCING—*contd.*

Contracted for in 1888.

Contract Number.	Articles.	Details.	Rate—Free on board. Amount. £	s.	d.	Unit.	Remarks.
1324	Pipes, iron, wrought—*continued.*	Gas, 1½" diameter (internal) thickness, No. 8 S. W. G.	0	0	3	Lineal foot.	
1324		Gas, 2" diameter (internal) thickness, No. 8 S. W. G.	0	0	4½	"	
1335		Gas, 10 B. W. G. thick in 13 feet lengths—					
		¾" bore	0	0	1⅝	"	
		1¼" bore	0	0	3¼	"	
1271		Galvanized, water, 2" internal diameter, No. 6 S. W. G. thick, of following lengths:—					Required for the water-supply of the Sukkur Bridge Forts (Block-houses).
		No. 100, 14 feet each					
		" 70, 12 feet each					
		" 70, 10 feet each	0	0	7½	"	
		" 50, 8 feet each					
		" 42, 5 feet each					
		" 50, 2 feet each					
569		Steam, lap-welded, with screwed ends, one socket to each length of 15 feet and one short length to make up the exact number of feet ordered ...					
		Internal diameter 3" × No. 4 S. W. G.	0	1	7½	Foot.	
		" " 2½" × No. 5 S. W. G.	0	1	2	"	

CLASS OF STORES F.—STATION MATERIALS AND FENCING—*contd.*

Contracted for in 1888.

Contract Number.	Articles.	Details.	Rate—Free on board. Amount. £	s.	d.	Unit.	Remarks.
568 (*contd.*)	Pipes, iron, wrought—*continued.*	Internal diameter 2″ × No. 6 S. W. G.	0	0	7½	Foot.	
		,, ,, 1½″ × ,, 6 S. W. G.	0	0	5	,,	
		,, ,, 1″ × ,, 8 S. W. G.	0	0	3	,,	
1332		Steam, in lengths of 15 feet, with screwed ends, for Colliery works, 2½″ internal diameter	0	1	1	,,	
		,, Ditto ditto ditto 2″ ditto	0	0	7		
568	Pipes, iron, wrought; connections for—	Bends, right angle, for steam pipes of dimensions given under Contract 568 ...	0	2	5	Each.	
		Bends, angle 135°, for ditto					
1271		Bends 2″ for piping, water, wrought iron, galvanized, 2″	0	1	6¼	Lin. foot.	For water-supply of Sukkur Bridge Forts (Block-houses).
1332		Bends, right angle, for 2½″ pipes, steam, Colliery	0	3	1	Each	
		Do. do. for 2″ pipes	0	1	3½	,,	
		Do. angle 135°, for 2½″ pipes	0	2	3¼	,,	
		Do. do. for 2″ pipes	0	1	6¼	,,	
1271		Elbows, round, 2″, for piping, water, wrought iron, galvanized, 2″	0	1	3¼	,,	
		Do. 1″ for do.	0	0	5½	,,	
1324		Elbows for piping, gas, 1½″	0	0	5½	,,	

CLASS OF STORES F.—STATION MATERIALS AND FENCING—*contd.*

Contracted for in 1888.

Contract Number.	Articles.	Details.	Rate—Free on board. Amount. £	s.	d.	Unit.	Remarks.
1324	Pipes, iron, wrought; connections for—*contd.*	Elbows for piping, gas, 2″	0	0	8	Each.	
(*contd.*)		Couplings for 2½″ pipes, steam	0	0	9¼	,,	
1332		,, for 2″ do.	0	0	3¾	,,	
		Flange, 2″, for water, galvanized	0	0	10	,,	
1271		Plugs, reducing, for steam pipes, of dimensions given under Contract 568 above ...	0	0	8	,,	
568		Quarter bends for piping, 1½″, gas	0	0	5¼	,,	
1324		Do. for do. 2″, gas	0	0	9¾	,,	
		Sockets, reducing, for steam pipes, of dimensions given under Contract 568 above ...	0	0	10	,,	
568		Sockets, spare, for piping, 2″, water, galvanized	0	0	4	,,	
		T pieces of sizes, 3,″ 2½″, 2″, 1½″ and 1″	0	2	3	,,	
		Ditto reducing, of size ditto	0	2	3	,,	
		T pieces, 2″, for piping, 2″, water, galvanized	0	1	3	,,	
1271		Ditto 1″ out of 2″ for ditto	0	1	3	,,	
		T pieces for piping, 1½″, gas	0	0	5½	,,	
1224		Ditto for piping, reducing to 1½″	0	0	8½		

1/60 S.P

CLASS OF STORES F.—STATION MATERIALS AND FENCING—*contd.*

Contracted for in 1888.

Contract Number.	Articles.	Details.	Rate—Free on board. Amount. £	s.	d.	Unit.	Remarks.
1333	Pipes, iron, wrought, with connections for	T pieces for 2½" pipes	0	2	11	Each.	
1324	continued.	Ditto for 2" pipes	0	1	2	"	
		Valves, air, single, for 2" piping, gas	0	2	6	"	
1326	Plates, iron, wrought, enamelled.	For mile marks, 12" × 8", with white figures 5½" deep, on dark grey ground, each having a countersunk screw-hole in each corner.	0	1	10	Each.	
		Screws, wood, brass, 1" × 8, B. W. G. for fixing plates	0	0	1	Dozen.	
		Ditto 3½" long × 22 B. W. G. for fixing hooking to post	0	1	5	"	
910	Press, dating.	Ticket, with type and boxes	2	7	4	Each.	
1060		Ticket, to print date, with type in boxes, complete	1	18	6	"	
1218		To cut and print date, type boxes with type	52	16	0	"	
		Duplicates of each letter and figure	0	12	0	Set.	
1442		Spare types with lead spaces and stars (without boxes)	0	12	0	"	
693	Pumps ...	Steam, Fellings's Patent Horizontal Duplex, double acting piston type of 4½" diameter, working a stroke of ten inches. (Cylinders 7½" diameter and 10 inch stroke).	138	10	0	Each.	

12

CLASS OF STORES F.—STATION MATERIALS AND FENCING—*contd.*

Contracted for in 1888.

Contract Number.	Articles.	Details.	Rate—Free on board. Amount. £	s.	d.	Unit.	Remarks.
849	Pumps—*continued.*	Steam, with boiler, complete, horizontal, direct double acting, with following duplicate parts :—					Diameter of steam cylinder 7" × 6" pump; length of stroke 12", diameter of boiler 3' 2", height 7' 2", number of galloway tubes in boiler 2; diameter of pumps 5" and stroke 12" with 40 feet of suction and two right angle bends and 99 feet of delivery pipe in 9 feet lengths, also two short lengths, one of 4 feet and one of 6 feet and 4 right angle bends.
		One complete set of spare valves for pump.	160	0	0	Each.	
		One complete set of piston rings for steam cylinder and pump.					
		Twelve glass tubes and rings for the boiler.					
		(Tracings and Photos).	1	10	0	"	
994		Hand power, double cylinder (with duplicate parts). Each pump to be provided with 40 feet of 2½ inch galvanized lap-welded wrought iron suction pipe, with flanges and wind bore.					
		15 feet of 2½ inch galvanized lap-welded wrought iron delivery pipe, with flanges.	26	0	0	"	
		3 wrought iron elbows, with flanges to fit the straight piping.					
		1 cup, with screw for shaping bucket leathers, and all necessary bolts and nuts required for the piping.					
1010		Steam, "Worthington," complete, and supplied with a 4-inch foot valve, steam cylinders 10 inches diameter, water plungers 6½" diameter, with a stroke of 10 inches.	19	0	0	"	
		Bed plates for above	0	6	0	"	

13

CLASS OF STORES F.—STATION MATERIALS AND FENCING—*contd.*

Contracted for in 1888.

Contract Number.	Articles.	Details.	Rate—Free on Board. Amount. £	s.	d.	Unit.	Remarks.
1334	Pumps—*continued*	Steam, 6 H. P. with vertical boiler, for supplying water from wells 100 feet deep. General dimensions are—					
		Diameter of steam cylinder ... ... 8 inches					
		Length of stroke ... ... 10 inches					
		Diameter of boiler ... ... 3′ 2″					
		Height of boiler ... ... 7 feet	260	0	0	Each.	Tracings and Photos £3-10-0.
		Number of conical water tubes in ditto ... ... Two					
		Diameter of pump barrel ... ... 6 inches					
		Stroke of pumps (double acting) ... ... 12 inches, changeable to 8 inches.					
		Number of pumps (double acting) ... ... Two					
1500		Hand power, double cylinder, for tanks, with piping, complete					
		Each pump is to be provided with 40 feet of 2½″ galvanized lap-welded wrought iron suction pipe, with flanges and wind bore.					
		15 feet of 2½″ galvanized lap-welded wrought iron delivery pipe, with flanges	27	19	0	,,	
		3 wrought iron elbows, with flanges to fit the straight piping					
		1 cup, with screw for shaping bucket leathers, and all necessary bolts and nuts required for the piping.					

CLASS OF STORES F.—STATION MATERIALS AND FENCING—*contd.*

Contracted for in 1888.

Contract Number.	Articles.	Details.	Rate—Free on Board. Amount. £	s.	d.	Unit.	Remarks.
1188	Roofing, iron, complete	Galvanized wrought iron work for roof of engine shed, 218 ft. 6 in. long × 40 feet wide, together with all rivets, burrs, clips, &c.	237	18	2	1 shed.	Estimated weight of roof—tons. cwts. qr. lbs. 20 12 2 11
		Galvanized wrought iron corrugated sheets	12	12	6	Ton.	
		Ditto ridge plates	18	12	6	,,	Total cost of galvanized and ungalvanized wrought iron work for 1 roof complete =£ 554-14-2.
		Ditto wind ties	11	12	6	,,	
		Ditto clips for sheets	32	12	6	,,	
		Ditto gutters	25	12	6	,,	
		Ditto rivets and burrs	28	12	6	,,	
		Ditto zinc flashing	30	12	6	,,	
1175		Ungalvanized wrought iron work for the roofing over one engine shed, 218 feet 6 inches long by 40 feet wide, with all bolts, nuts, washers, rivets, &c.	256	16	0	1 shed.	Estimated weight of one engine shed exclusive of service bolts—27 tons 19 cwts. 0 qr. 7 lbs.
		Wrought iron work in trusses, purlins, knees, and wind ties, &c.	8	15	0	Ton.	Service bolts and washers—2 cwts. 1 qr.
		Bolts, nuts and washers	19	0	0	,,	
		Rivets for use in India	8	15	0	,,	
		Rivet rods	8	15	0	,,	

CLASS OF STORES F.—STATION MATERIALS AND FENCING—*contd.*

Contracted for in 1888.

Contract Number.	Articles.	Details.	Rate—Free on board. Amount. £	s.	d.	Unit.	Remarks.
1745	Roofing, iron, complete—*continued*	Galvanized wrought iron work for roof of machine shop	430	13	3	Total.	
		Sheets 18 B. W. G. 8′ × 3′					
		7′ × 3′					
		5′ 6″ × 3′					
		5′ × 3′	14	5	0	Ton.	
		2′ 6″ × 3′					
		6′ 6″ × 3′					
		Iron gutter 18 B. W. G., breadth over all 3′ × 3″	16	0	0	,,	Tons. Cwts. qrs. Estimated weight—28 19 3
		Iron Ridging, breadth over all 1′ 6″	16	0	0	,,	
		Iron flashing, breadth 1 foot	16	0	0	,,	
		Iron wind ties 2″ × ¼″ × 19′ 6″	12	0	0	,,	
		Iron hook bolts with nuts and washer 6″ × ½″	26	10	0	,,	
		Iron rivets and washers	26	0	0	,,	
		Bolts with lead washers	30	0	0	,,	

16

CLASS OF STORES F.—STATION MATERIALS AND FENCING—*contd.*

Contracted for in 1888.

Contract Number.	Articles.	Details.	Rate—Free on board. Amount. £	s.	d.	Unit.	Remarks.
1756	Roofing, iron, complete.	Galvanized wrought iron work for roof over one engine shed, 110 feet 10 inches clear in length by 40 feet clear in width, together with all rivets, burrs, clips, &c.	168	16	8	Span.	Total cost of galvanized and ungalvanized iron work in one roof — 351*l.* 18*s.* 8*d.*
		Galvanized wrought iron	...	...	...	Ton.	Estimated weight of roof— Tons. Cwts. qr. lbs. 10 14 3 8
		Corrugated sheets (straight) 8′ × 2′ 11″ (centres) 66·3 lbs. each	15	0	0	,,	
		Ditto curved to 7′ 3″ radius	16	0	0	,,	
		Ditto wind ties 21′ 9″ × 1½″ × ¼″	11	0	0	,,	
		Ditto clips for sheets 7 lbs. each	28	5	0	,,	
		Ditto rivets and burrs	25	0	0	,,	
1640		Ungalvanized iron roof for 3 bays of a machine shop :— Trusses. Rolled iron beams for girders, 14″ × 6″ × ¾″ × 28′ long. Ditto for wheel hoist. Rolled iron beam standard 14″ × 6″ × ¾″ × 170′ high. Wind ties, diagonal iron. Plates, iron. Angle, iron.	12	10	0	,,	Total cost of materials for one roof — 650*l.* 17*s.* 0*d.* Approximate weight of the roof 52 tons.

17

160/18 S.C.

CLASS OF STORES F.—STATION MATERIALS AND FENCING—*contd.*

Contracted for in 1888.

Contract Number.	Articles.	Details.	Rate—Free on board. Amount. £	s.	d.	Unit.	Remarks.
1640 *continued*	Roofing, iron, complete—*continued.*	Bolts, iron, square heads and Hexagon nuts. Iron rivets.	12	10	0		
1748		Ungalvanized wrought iron work for the roofing over one engine shed, 110 feet 10 inches in clear length and 40 feet in clear width, with all bolts, nuts, washers, rivets, &c.	183	2	0	Total.	Estimated weight of roof— Tons. 13 Cwts. 18 qr. 1
		Wrought iron work in trusses, purlins, knees and wind ties, &c.	12	18	0	Ton.	
		Bolts, nuts and washers	20	3	0	„	Total cost of galvanized and ungalvanized iron work in one roof — 351*l.* 18*s.* 8*d.*
		Rivets for use in India	12	18	0	„	
1366	Ditto Spare parts of— ...	Ridge capping for roofing, iron, galvanized, 12 B. W. G. thick :— 7 feet long ... ... 6 feet long	25	0	0	Ton.	
		Bolts and nuts galvanized hook $\frac{3}{4}$" × 4$\frac{1}{2}$"	32	10	0	„	
1151	...	Iron sheets, straight, corrugated, galvanized, 7' 6" long × 2' 5$\frac{1}{2}$" from out to out 18 S. W. G. thick, weighing 1·92 lbs. per foot, superficial.	12	12	6	„	Estimated weight— Tons. 5 Cwts. 16 qr.

18

CLASS OF STORES F.—STATION MATERIALS AND FENCING—*contd.*

Contracted for in 1888.

Contract Number.	Articles.	Details.	Rate—Free on board. Amount. £	s.	d.	Unit.	Remarks.
786	Signals, Semaphore, Distant.	Complete—exclusive of posts, but including wire strand and lever, &c.	14	13	0	Each.	
817		Complete with lamps	14	13	0	„	
954		Complete, but without posts	14	13	0	„	
1221		Complete—exclusive of posts, but including wire strand and lever, &c., complete ...	14	13	0	„	
1256		Complete with lamps	13	0	0	„	
1337		Complete without posts, but with lamps, wire stakes and pulleys	13	0	0	„	
1621		Complete with lamps, but without posts	13	0	0	„	
786	Signals, Semaphore, Station.	Complete, but without posts	6	9	0	Set.	
817		Complete with lamps	6	9	0	„	
954		Complete (home) with lamps, but without posts	6	9	0	„	
1221		Complete, but without posts	6	9	0	Each.	
1256		Complete with lamps	13	0	0	Set.	
1337		4 armed complete for junction	13	14	0	„	
		2 armed complete	9	0	0	„	

19

1/100 S.C.

CLASS OF STORES F.—STATION MATERIALS AND FENCING—*contd.*

Contracted for in 1888.

Contract Number.	Articles.	Details.	Rate—Free on board. Amount. £	s.	d.	Unit.	Remarks.
1517	Signal, Semaphore, Station.	Complete, without posts, fitted with Shellis and Thomas' small sized lamps with metal chimney.	8	5	0	Set.	
1621	Ditto	Complete with lamps, but without posts	8	9	2	"	
	Signals, Semaphore; Spare parts of—	Spare spectacle glasses:—					
786		Large red for station signal	0	0	11	Each.	
		Do. green do.	0	1	2	"	
		Do. red for distant signal	0	0	11	"	
		Small green for distant signal	0	0	5	"	
		Winks	0	1	0	Gross.	
1061		Brackets for lamps	0	5	0	Each.	
		Lever balance complete	0	16	0	"	
		Do. Blood's patent	2	16	0	Set.	
		Side wheels	0	6	0	"	
1256		Spare lenses 6"	0	2	0	Each.	
		Do. 2"	0	0	6	"	

CLASS OF STORES F.—STATION MATERIALS AND FENCING—*contd.*

Contracted for in 1888.

Contract Number.	Articles.	Details.	Rate—Free on board. Amount. £	s.	d.	Unit.	Remarks.
1256 *continued*	Signals, Semaphore; spare parts of—	Spectacle glasses, large, red, for station signals	0	1	6	Each.	
		Do. do. green, for do.	0	2	6	"	
		Do. do. red, for distant signals	0	1	6	"	
		Do. small, green, for do.	0	0	6	"	
		Wicks	0	2	6	Gross.	
1337	Ditto.	Stakes, galvanized, 5' long, with brackets, pulleys, and bolts complete	0	1	7	Each.	
		Stakes, galvanized, 4' long, with brackets, pulleys and bolts complete	0	1	3	"	
1370	Ditto.	Stakes, galvanized, with pulleys, brackets and bolts complete	0	1	3	"	
		Wheels, pulley, with brackets and bolts and nuts for stakes	0	0	3½	"	
1337	Signals (Apparatus), Interlocking.	Complete	151	5	0	Set.	
1577	Signals (Apparatus), Interlocking (Points).	Complete, excepting wood-work, for Eastern Bengal State Railway	165	0	0	"	
988	Tanks, wrought iron, complete.	For water 8' × 8' × 4'	11	17	6	Each.	
1522	Ditto.	Ditto ditto	11	0	0	"	Tracings 0-7-6 per set. Total weight of iron in each tank Ton. Cwts. qrs. lbs. 1 4 3 7
1623	Ditto.	Ditto ditto	12	0	0	"	Tracings 0-7-6 per set.

L60/1/2/S/C

CLASS OF STORES F.—STATION MATERIALS AND FENCING—*contd.*

Contracted for in 1888.

Contract Number.	Articles.	Details.	Rate—Free on board. Amount. £	s.	d.	Unit.	Remarks.
1522	Tanks, wrought iron; materials for —	Pipes, connecting	0	4	0	Each.	
1045	Tickets, card, Railway.	With "B. S. R." Single journey, green, white and yellow	0	0	3 7/8	%.	
1239		With "B. G. J. P. R.", white, green, crimson, pink, yellow, blue, orange, red, all plain.	0	0	9½	%.	
1244		With "I. S. R.," yellow 3rd class, crimson return intermediate	0	0	7	%.	
1580		With "E. B. R.," green, 2nd class, return, crimson intermediate, yellow 3rd class ..	0	0	6¾	%.	
1084	Traversers, carriage and wagon; broad gauge.	Complete, and tested with a load distributed on the rails of 22 tons	71	0	0	Each.	
1627	Ditto.	18 feet ditto, and tested with a load distributed on the rails of 30 tons	85	0	0	"	
970	Traversers, carriage and wagon; metre gauge.	Complete, 28 feet long over all, and tested with a load distributed on the rails of 25 per cent. more than it is specified to carry.	156	10	0	"	Tracings and Photographs at 1-10-0 and 0-15-0 respectively.

CLASS OF STORES F.—STATION MATERIALS AND FENCING—*contd.*

Contracted for in 1888.

Contract Number.	Articles.	Details.	Rate—Free on board. Amount. £	s.	d.	Unit.	Remarks.
1685	Turntables, carriage and wagon; 5' 6" gauge.	18 feet diameter and capable of turning a moving load of 30 tons equally divided between six wheels (two near the center and two near the end of the table) on a total wheel base of 16 feet. (The rails used for the tables are to be of Vignole's section weighing 75 lbs. per yard.)	170	0	0	Each.	
1322	Turntables, engine; 5' 6" gauge.	50 feet diameter, of the central balance description, capable of turning an engine and tender weighing 80 tons, and to be tested and turned with a moving load of 25 per cent. more than it is specified to turn.	380	0	0	Each.	
848 1166 1225	Turntables, engine; metre gauge.	36 feet diameter, of the central balance description, to be capable of turning an engine and tender weighing 38 tons, and to be tested and turned with a moving load of 25 per cent. more than it is specified to turn.	190	0	0	"	
976	Weigh bridges; 5' 6" gauge.	With steel yards graduated for Indian and English weights, to weigh up to 18 tons English standard and 490 maunds Indian standard. The platform to be made in four equal lengths, flanged and bolted together with turned bolts. The rails for the platform are to be of steel of Vignole's section, and are to weigh 75 lbs. per yard.	125	0	0	Each.	
1625	Weigh bridges; 5' 6" gauge.	Platform 16 feet long to weigh up to 20 tons or 490 maunds with steel yard graduated for the Indian and English weights Rails for platform to be of steel, Vignole's section, and to weigh 75 lbs. per yard.	110	0	0	"	
975	Weigh bridges; metre gauge.	To take bogie wagons, 25 feet platform, fitted with 50lb. steel rails, to weigh up to 25 tons or 680½ maunds.	150	0	0	"	

100/13 S.C.

CLASS OF STORES F.—STATION MATERIALS AND FENCING—*concld.*

Contracted for in 1888.

Contract Number.	Articles.	Details.	Rate—Free on board. Amount.			Unit.	Remarks.
1221	Weigh bridges; metre gauge	With steel yards graduated for Indian and English weights, to weigh up to 10 tons. Platform 14' 6" long, and to be made in four equal lengths, flanged and bolted together with turned bolts.	85	0	0	Each.	
1099	Weighing machines, flat. Iron.	33" × 29" to weigh up to 28 maunds	10	10	0	Each.	
1172 1607		To weigh up to 28 maunds or one ton, with steel yards graduated for Indian and English weights.	11	0	0	"	
1629		250 kilos. with steel yard graduated, English and Burmese weights	8	10	0	"	
1606		Adjusted to weigh by English standards—table 2' 6" square, weighing capacity up to one ton fitted with rails to 2 feet gauge (the machine to be fitted with patent double steel yard. Taring Indicator graduated in divisions of one pound, and to have no loose weights. Pillar of machine to be 3 feet away from the table).	18	10	0	"	This machine is suitable for Colliery work.

G. F. MATHEW,

for Director General of Railways.

[*General Distribution.*]

L 60 S.C 15

Circular No. 35.

FROM

THE DIRECTOR GENERAL OF RAILWAYS,

TO

THE DIRECTOR, NORTH-WESTERN RAILWAY.
THE MANAGER, OUDH AND ROHILKHAND RAILWAY.
THE ENGINEER-IN-CHIEF, CHAMAN EXTENSION.
THE ENGINEER-IN-CHIEF, MOGUL SERAI-HOWRAH RAILWAY SURVEY.
THE PORT STOREKEEPER, STATE RAILWAY DEPARTMENT, CALCUTTA.

Rate List for Class F.—"Station Materials and Fencing"—for 1888.

Simla the 4th December 1889.

SIR,

I have the honour to forward herewith, for information and guidance, a printed statement showing the actual English rates for F. Class Stores.—"Station Material and Fencing"—contracted for by the Stores Department of the India Office during 1888.

I have the honour to be,

SIR,

Your most obedient Servant,

G. F. MATHEW,
for Director General of Railways.

The Secretaries to the Governments of Madras, Bombay, Bengal, the North-Western Provinces and Oudh, and the Punjab, Public Works Department.
The Secretaries to the Chief Commissioners of the Central Provinces, Burma, Assam and Coorg, Public Works Department.
The Secretaries to the Residents, Hyderabad and Mysore, Public Works Department.
The Secretaries to the Agents to the Governor General, Rajputana and Central India, and Baluchistan, Public Works Department.
The Superintendent of Port Blair and Chief Commissioner, Andaman and Nicobar Islands.
The Director General of Telegraphs.
The Inspector General of Military Works.
The Accountant General, Public Works Department.
The Comptroller General.
The Accountant General, Bengal.
The Consulting Engineers for Railways, Madras and Bombay.
The Consulting Engineers to the Government of India for Railways, Calcutta, Lucknow and Central Division.
The Agent and General Manager, Assam Railways and Trading Company, Limited.

Copy forwarded to the Local Governments, Administrations and Officers noted in the margin for information.

G. F. Mathew.
for Director General of Railways.

Document accompanying.
Rate List, Class F.—"Station Materials and Fencing"—for 1888.

The Secretary to the Govt. of Madras
P. W. Department.

No 100 dt/15th January 1890

B

Communicated to officers of the P.W.D. in continuation of Circ. No 35 dated 4th Dec 1889.

W.M. 7.1.90

Accts 6.1.90

CE P. Circles ✓
Supg. Engrs ✓
C.A. to Govt. ✓
Ex. Offrs ✓ D 17/1.
Cash for Rly.

2 Office Copy

FROM

THE DIRECTOR GENERAL
OF RAILWAYS.

To

Circular No. 35.

Dated Simla, the 4th December 1889.

Received

INDIAN STATE RAILWAYS.

Rate List, Class F.—"Station Materials and Fencing"—for 1888.

G. C. P. Simla.—No. 1203 P. W. D.—3-12-89.—1,100.

No 100 dt/15th January 1890