

(1) பக்கங்களின் எண்ணிக்கை

82

(2) புதுக்கித் திருப்பிய நாள்

24 செப்டம்பர் 1989

(3) ஆதாரங்குறிப்பவர் சுருக்கொப்பம்

தமிழ்நாடு ஆவணக் காப்பகம்.

தமிழ்நாடு அரசு

பொதுப்பணித் துறை

அரசாணை எண்.
மு. கோப்புத் தாள் எண்.

4440 W

அச்சகம்
பலவகை

நாள் :

23-5-1990

1989

வா கண்டபடி கையாளவோ கூடாது

[General Distribution.]

1440

Circular No. 20.

FROM

THE DIRECTOR GENERAL OF RAILWAYS,

TO

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

Rate List for Class E, State Railway Stores—"Rolling Stock"
for 1887.

Simla, the 27th March 1890.

SIR,

In continuation of my Circular No. 8 of the 31st July 1888, I have the honour to forward herewith for information and guidance a printed statement showing the actual rates, *free on board*, in England for Rolling Stock, (State Railway Stores, "E class") contracted for by the Stores Department of the India Office during 1887.

I have the honour to be,

SIR,

Your most obedient servant,

E. H. STONE,

for Director General of Railways.

Documents accompanying.

Rate List, "Class E," Rolling Stock, for
1887.

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, 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 Govern-
ments, Administra-
tions and Officers
noted in the margin,
for information.

E. H. STONE,

for Director General of Railways.

142

The Secretaries to the Governments of Madras, Bombay, Bengal, the North-Western Provinces and Oudh, and the Punjab, Public Works Department.

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E. H. STONE,

for Director General of Railways.

1440

No. 1440 W. of 23 May 1890

Order thereon

Card to Officers of
the M. Dept in con-
tinuation of your L. of
7/12 Feb/90

57 W. L. S.

FROM

THE DIRECTOR GENERAL
OF RAILWAYS,

TO

Circular No. 20.

Dated Simla, the 27th March 1890.

Received

No. 1440 W. of 23 May 1890

Charges for L.
Charges P. P.
Subscriptions
Comp. Architect
By M. A. S.

RATE LIST FOR CLASS E, STATE RAILWAY
STORES.

"Rolling Stock" for 1887.

G. C. Press, Simla.—No. 1203 P. W. D.—10-4-90—1,100

[General Distribution.]

5
1440

Circular No. 20.

FROM

THE DIRECTOR GENERAL OF RAILWAYS,

TO

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

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Documents accompanying.

Rate List, "Class E," Rolling Stock, for
1887.

No 1440 W 23 May 1890

Order thereon

Comd to Officers of the
M Dept in continuation
of govt 461 W 7/12 Feb/90
97 W L B

FROM

THE DIRECTOR GENERAL
OF RAILWAYS,

TO

Circular No. 20.

Dated Simla, the 27th March 1890.

Received

No 1440 W 23 May 1890

Chargers I
Chargers, P. P
Super Intd
Eng Architect
Exr M and

RATE LIST FOR CLASS E, STATE RAILWAY
STORES.

"Rolling Stock" for 1887.

G. C. Press, Simla.—No. 1393 P. W. D.—10-4-90.—1,106

Enclosure to Director General of Railways' Circular No. 20 of 1890.

RATE LIST.

CLASS E.

ROLLING-STOCK.

1887.

C. C. Press, Simla.—No. 1393 P. W. D.—11-4-90.—1,106.

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CLASS OF STORES. E.—ROLLING STOCK, SUB-HEAD a.—LOCOMOTIVES.

FOR F'6" GAUGE RAILWAYS.

Contracted for in 1887.

Contract Number.	Articles.	Unit.	RATE—PRICE OR QUANTITY.			REMARKS.
			Amount.	£.	Each.	
300	Of the A11 system, of about 54 tons service weight, able to haul 155 tons of train load up gradients of 1 in 20 and round curves of 600' radius, with a velocity of 61 miles to the hour	Each.	3,175	0	0	
513	Tank, eight wheels coupled	Each.	2,395	0	0	
GENERAL DIMENSIONS AS FOLLOWS:—						
	Cylinders, 18" X 26"	Each.				
	Diameter of wheels (all coupled), 4' 6"	Each.				
	Wheel base, 14' 3"	Each.				
	Working steam pressure, 160 lbs. per square inch	Each.				
	Heating surface tubes, 1,100 square ft.	Each.				
	" " fire-box, 107 "	Each.				
	Graze area 23 "	Each.				
	Total weight in working order, 58 tons	Each.				
	Capacity of tanks, 1,500 gallons	Each.				
	Length of tubes, 12' 7" between plates, fire-box to be 4' 9" wide	Each.				
	Bearing springs to be under axle boxes	Each.				

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1440

CLASS OF STORES. E.—ROLLING STOCK, SUB-HEAD a.—LOCOMOTIVE—contd.

FOR 5' 6" GAUGE RAILWAYS.

Contracted for in 1887.

Contract Number.	Articles.	Details.	RATE—PERY OF BOARD.		REMARKS.
			Amount.	Unit.	
E113—contd.	Engines (Locomotive)—contd.	(GENERAL DIMENSIONS—contd.)— Boiler to be fitted with two steam domes ... Top of fire-box to be inclined and front end of tubes to be lowered ... Boiler shell and barrel plates and copper fire-box plates to be $\frac{3}{16}$ " thick ... Leading and trailing axle boxes to have $\frac{1}{2}$ " side play either way ... Steam, hand and chatelier brakes to be provided ... Complete, with tender, class H, Dobs & Company ...	£	d.	
		Engines. Diameter of cylinder, 16" ... Length of stroke, 24" ... Diameter of coupled wheels, 6' 0" ... Diameter of bogie wheels, 2' 9" ... Total wheel base, 19' 3" ... Working steam pressure per square inch, 140 lbs. ... Heating surface, external tubes, 386' 5 sq. ft. ...	1,810	0 0	Each.
E1140					• Engine ... 1,456 0 0 Tender ... 354 0 0 Total ... 1,810 0 0

CLASS OF STORES. E.—ROLLING STOCK, SUB-HEAD a.—LOCOMOTIVES—contd.

FOR 5' 6" GAUGE RAILWAYS.

Contracted for in 1887.

Contract Number.	Articles.	Details.	RATE—PERY OF BOARD.				REMARKS.
			Amount.			Unit.	
E1140—contd.	Engines (Locomotive)—contd.	Heating surface fire-box, 83.5 sq. ft. ...	2	s.	d.		
		Grate surface, 142 sq. ft. ...					
		<i>Tenders.</i>					
		Number of wheels, six ...					
		Wheel base, 11' ...					
		Diameter of wheels, 3' 7" ...					
		Capacity of tank, 1,700 gallons ...					
1132	Engines (Loco.)—Spare parts of— Axles.	Driving ...	73	10	0	Each.	
Leading ...		13	0	0	"		
Trailing ...		11	0	0	"		
1138	Axle boxes...	Bogie wiper, for Locomotives, H. B. class ...	3	14	4	Each.	
1142	Bars slide ...	With slide blocks, slide brackets, cross heads, and all bolts, complete ...	31	10	0	Set.	
	Blocks ...	For expansion links ...	1	0	0	Each.	

CLASS OF STORES. E.—ROLLING STOCK, SUB-HEAD a.—LOCOMOTIVES—contd.
FOR METRE GAUGE RAILWAYS.

Contracted for in 1887.

Contract Number.	Articles.	Details.	RATE—PER ON BOARD.		REMARKS.
			Amount.	Unit.	
387	Coupling rods.	Complete for A class engines by Hawthorn and Company	£ 8 12 9	Each.	
504	Crank arms	Driving, cranks cast steel forging, complete with washers and pins, to be machined all over, ready to drive on to axle, to fit engine class A by Dubs and Company	4 10 0	Each.	
E1162	Crank arms	Steel, for driving wheels } For Dubs and Company's engines, to be rough machined all over and bored. " trailing " }	8 0 0 8 0 0	Each. "	
388	Eccentric rods.	2 fore gear } Per O class engines by Nelson and Company 2 back gear }	2 13 6	Lot.	

CLASS OF STORES. E.—ROLLING STOCK, SUB-HEAD a.—LOCOMOTIVES—contd.

FOR METRE GAUGE RAILWAYS.

Contracted for in 1887.

Contract Number.	Articles.	Details.	RATE—PER ON BOARD.		REMARKS.
			Amount.	Unit.	
387	Eccentric sheaves and rods.	2 sheaves } 2 rods, fore gear } For A class engines by Hawthorn and Company 2 " back " }	34 0 0	Lot.	
388	Eccentric sheaves.	For O class engines, built by Nelson & Company	1 10 3	Each.	
288	Eccentric straps.	For E class engines, built by the Vulcan Foundry Company	1 11 8	"	
		For engines, built by Manning, Wardle & Company, of Leeds	1 6 8	"	
		For engine No. 656, built by Manning, Wardle & Company, of Leeds	2 6 8	Pair.	

CLASS OF STORES. E.—ROLLING STOCK, SUB-HEAD a.—LOCOMOTIVES—*contd.*

FOR METRE GAUGE RAILWAYS.

Contracted for in 1887.

Contract Number.	Articles.	Details.	RATE—FREE ON BOARD.			REMARKS.
			Amount.	Unit.		
464	Gauge Steam	To show 200 lbs. ordinary dial Bourdon steam gauge with a 1" screw, 16 threads to the inch and 2" long, the face of the dial to be about 4"	\$ 1 3 9	Each.		
386	Hangers Spring.	4 front 4 hind 2 centre For O class engines, built by Neilson and Company	1 6 0	"		
388	Engines (Locomotive)—Spare parts of— <i>contd.</i>	8 front 8 hind 8 centre For F class engines by Vulcan Foundry Company	21 10 6	Lot.		
397		Leading Driving Trailing For A class engines by Hawthorne and Company	11 15 0	Lot.		
398	Horn cheek clips.	2 leading 2 driving 2 trailing For E class engines, built by the Vulcan Foundry Company	5 2 6	Set.		

CLASS OF STORES. E.—ROLLING STOCK, SUB-HEAD a.—LOCOMOTIVES—*contd.*

FOR METRE GAUGE RAILWAYS.

Contracted for in 1887.

Contract Number.	Articles.	Details.	RATE—FREE ON BOARD.			REMARKS.
			Amount.	Unit.		
398	Horn cheek clips.	Leading Driving Trailing For O class engines, built by Neilson and Company	3 6 0	Set.		
"		For O class engines, built by Neilson and Company	1 12 0	"		
388	Horn plate clips.	4 front 4 hind 4 centre For E class Engines	2 7 6	Lot.		
"		4 front 4 hind 4 centre For F class engines	2 5 0	"		
206	Injector	Gifford, outside 2 1/2" length, 18" from bottom flange to top	6 5 0	Each.		
357	Pipes Steam	Copper, for smoke-box of A class engines by Hawthorne & Company	6 0 0	Each.		
"		" main for inside of boiler, for A class engines by Hawthorne & Company	3 0 0	Set.		
383	Engines (Locomotive)—Spare parts of— <i>contd.</i>	" main, for inside of boiler, for E class engines by the Vulcan Foundry Company	2 10 0	"		
"		"				

CLASS OF STORES. E.—ROLLING STOCK, SUB-HEAD a.—LOCOMOTIVES—contd.

FOR METRE GAUGE RAILWAYS.

Contracted for in 1887.

Contract Number.	Articles.	Details.	RATE—PER ON BOARD.		REMARKS.
			Amount.	Unit.	
106	Engines (Locomotive)—Spare parts of—contd.	Fire-box, back, flanged— To drawing E. 253 " E. 432 Fire-box, crown— To drawing E. 268 " E. 432 Fire-box, tube flanged— To drawing E. 258 " E. 432	£ 8 21 12	d. 6 0 0 Each. " "	Separate rates not quoted.
460	Plates, iron	Tube, for smoke-box end of locomotive engines, class D, built by the Vulcan Foundry Company. Holes for tubes, wash out plugs, longitudinal stays and steam pipe only to be bored in England	4 18	0 Each.	
387	Quadrant ...	Links and blocks one of each for A class engines, built by Hawthorne and Company ...	7 10	0 Lot.	
387	Regulator handle.	Stop casting complete with gland for A class engines by Hawthorne and Company ...	6 2	0 Each.	

CLASS OF STORES. E.—ROLLING STOCK, SUB-HEAD a.—LOCOMOTIVES—contd.

FOR METRE GAUGE RAILWAYS.

Contracted for in 1887.

Contract Number.	Articles.	Details.	RATE—PER ON BOARD.		REMARKS.
			Amount.	Unit.	
388	Regulator handle.	Stop casting complete with gland for E class engines, built by the Vulcan Foundry Company ...	£ 3 12	d. 8 Each.	
398		Stop casting complete with gland for O class engines, built by Nelson and Company ...	3 8	0 "	
387	Engines (Locomotive)—Spare parts of—contd.	Bearing driving ... For A class engines by Hawthorne Company	1 11	8 Each.	
"		" trailing ...	1 14	8 "	
388		" driving ... For E class engines, Vulcan Foundry Company	1 14	9 "	
"		" leading ...	2 0	0 "	
"		" trailing ...	1 10	0 "	
"		" driving ... For F class engines	1 19	0 "	
"		" leading ...	1 19	0 "	
"		" trailing ...	1 19	7 1/2 "	
398		bogie ... For O class engines by Nelson & Company.	1 19	7 1/2 "	
"		" driving ...	0 11	6 "	
"		Buffer volute			

CLASS OF STORES. E.—ROLLING STOCK, SUB-HEAD a.—LOCOMOTIVES—*contd.*
 FOR METRE GAUGE RAILWAY.
Contracted for in 1887.

Contract Number.	Articles.	Details.	RATE—PAID ON BOARD.			REMARKS.
			Amount.	Unit.		
383	Engines (Locomotive)—Spare Parts of— <i>contd.</i> Springs— <i>coach.</i>	Buffer valve for E class engines by Vulcan Foundry Company	£ 0	d. 3	Each.	
"		" " F " " "	0	16	"	
"		" " " " "	2	14	"	
"		" " " " "	3	0	"	
395		" " O " " Neilson & Company	0	16	"	
255		Steel laminated, for engines by Manning Wardle & Company	3	17	Pair.	
285	Spring bal- ance.	Salter's, outside, 2 1/2"	1	5	Each.	
464		Salter's, to be of the ordinary commercial type, 1 1/2" diameter and 9" long in spring drawn	0	10	Each.	
250	Tubes	Boiler (Locomotive), brass, external diameter 11" and 6' 2" long, 11 B. W. G. for W. B. Dick & Company's O class engines. Estimated weight of 100 tubes = 1400 lbs.	0	0	lb.	For Kinnia Dharla Railway (2' 6" gauge.)
415	Tubes, boiler brass; Fer- rules for—	Locomotive boiler tubes to be made from solid drawn steel tubes of best quality; each ferrule must have a taper of 1 in 16 when finished and be 1 1/2" long	0	0	Each.	

CLASS OF STORES. E.—ROLLING STOCK, SUB-HEAD a.—LOCOMOTIVES—*contd.*
 FOR METRE GAUGE RAILWAYS.
Contracted for in 1887.

Contract Number.	Articles.	Details.	RATE—PAID ON BOARD.			REMARKS.
			Amount.	Unit.		
391	Tires	Crucible, steel, tender and trailing, for E and F class engines, 1' 8 1/2" inside dia- meter	1	3	Each.	
388	Valves	Brake, steam, complete with 2 unions, for F class engines, by the Vulcan Foundry Company	5	4	"	
393		Brake, steam, complete with two unions, for O class engines, by Neilson & Company	4	19	"	
395	Valve, buckle	Complete with cross head and cotter, for O class engines, built by the Neilson & Company	2	15	Each.	
383	"	" " " " " built by Vulcan Foundry Company	2	16	"	
385	Valve, spindle, intermediate.	Complete, for E class engine, built by the Vulcan Foundry Company	4	0	Each.	
285	Valve, spindle, glands	* For engine, built by Messrs. Manning, Wardle & Company, Leeds	0	16	Each.	
285	Wheel centres.	Driving and leading, with crucible steel tyres only, 3 pairs driving and 3 pairs leading. For engines by Manning, Wardle & Company, Leeds	15	18	Pair.	

CLASS E.
ROLLING-STOCK.

2.—COACHING AND GOODS STOCK.

(1) Complete Vehicles.

CLASS OF STORES. E.—ROLLING STOCK, SUB-HEAD b.—COACHING AND GOODS STOCK—(1) COMPLETE VEHICLES.

FOR 5' 6" GAUGE RAILWAYS.

Contracted for in 1887.

Contract Number.	Articles.	Details.	RATE—PAID BY BOARD.				REMARKS.
			Amount.	Unit.			
338	Brokevan	Underframe and body ironwork, roofing, lavatory and metallic fittings, trimmings, window glass and panel pins	112	0	0	Set.	
235	Wagons, covered goods.	Underframe and body steel and ironwork for covered goods wagons complete	84	0	0	Set.	
E1105	Ditto	Special type 20 feet long (complete ironwork for)	63	0	0	Set.	
403	Cranes	Travelling or accident. The cranes are to be carried on a wrought-iron truck, and fitted to lift and stow a weight of 10 tons at a maximum radius of 15 feet from centre of the pillar to the centre of the duff and a maximum height of work of 14 feet from platform of truck with a loose link motion for lowering the jib	475	0	0	Each.	

CLASS OF STORES. E.—ROLLING STOCK, SUB-HEAD *b.*—COACHING AND GOODS STOCK—(1) COMPLETE VEHICLES—*concl.*

FOR METRE GAUGE RAILWAYS.

Contracted for in 1887.

Contract Number.	Articles.	Details.	RATE—FREE ON BOARD.			REMARKS.
			Amount.	Unit.		
138	Brake vans	Underframe and body iron work, lavatory and metallic fittings, trimmings, window-glass for —	£ 52	d. 15	0	Set.
138		Underframe, underframe and body iron work, lavatory and metallic fittings, trimmings and window-glass for —	79	0	0	"
"	Carriages, composite.	Underframe, underframe and body steel and ironwork, lavatory and metallic fittings, trimmings and window-glass for (1st and 2nd class) — with end doors	130	0	0	"
"	Carriages, 1st class.	Underframe, underframe and body steel and ironwork, lavatory and metallic fittings, trimmings and window-glass, with end doors for —	131	0	0	"
"		Underframe, underframe and body steel and ironwork, lavatory and metallic fittings, trimmings and window-glass for a second class — with end doors	130	0	0	"
"	Carriages, 2nd class.	Underframe, underframe and body steel ironwork, trimmings and window-glass for a — without lavatory or metallic fittings	80	0	0	"
"		Underframe, underframe and body ironwork, metallic fittings and trimmings for — with end doors	56	0	0	"
"	Carriages, 3rd class.	Underframe, underframe and body iron and steel work, roofing, metallic fittings, trimmings and window glass for —	56	2	0	"
310	Horse box	Underframe and body ironwork, metallic fittings and trimmings for a —	99	0	0	Set.
138	Post Office carriage.	Underframe, underframe and body iron work, lavatory and metallic fittings, trimmings and window-glass for —	107	0	0	Set.

CLASS OF STORES. E.—ROLLING STOCK, SUB-HEAD *b.*—COACHING AND GOODS STOCK—(1) COMPLETE VEHICLES—*concl.*

FOR METRE GAUGE RAILWAYS.

Contracted for in 1887.

Contract Number.	Articles.	Details.	RATE—FREE ON BOARD.			REMARKS.
			Amount.	Unit.		
214	Wagons, Ballast.	Underframe, underframe and body steel and ironwork for —	£ 38	d. 15	0	Set.
138	Covered Goods.	Underframe and body steel and ironwork for covered goods wagons 14 feet long, complete	56	8	0	Set.
503		Underframe, underframe and body steel and ironwork for — 14 feet long	51	18	2	"
397	Wagon Stock.	Underframe and bogie trucks, underframe and bogie truck and body ironwork for — 25 ft. long	90	2	6	"
395	Ditto, Bogie.	Underframe and bogie trucks, underframe bogie trucks and body ironwork for — 25 feet long, complete	90	13	6	"
396		Underframe and bogie trucks, underframe bogie truck and body ironwork for one covered goods bogie wagon, 25 feet long, complete	95	17	3	"
214	Cattle Truck	Underframe, underframe and body steel and ironwork for one high-sided wagon, with roof, to be used as —	98	0	0	Set.
214	Timber Truck	Underframe, underframe and body steel and ironwork for —	35	10	0	Set.
17	Cranes Accident	To lift five tons	330	0	0	Each.
"		To lift 10 tons	455	0	0	"

CLASS OF STORES. E.—ROLLING STOCK, SUB-HEAD *b.*—COACHING AND GOODS STOCK—(2) IRON WORK.
FOR 5' 6" GAUGE RAILWAYS.

Contracted for in 1887.

Contract Number.	Articles.	Details.	BASE—PAID ON DELIVER.			REMARKS.
			Amount.		Unit.	
			£	s.	d.	
E1174	Axle boxes	Complete with gun metal bearings, leather washers and wrought-iron shields and set screws	0	14	3	Each.
E1147		With brasses B type				
		" C "	0	14	0	"
		" D "				
		" E "				
		" F "				
303		Complete with gun metal bearings, leather washers and wrought-iron shields and set screws	0	13	0	"
23		Complete with gun metal bearings, leather washers and wrought-iron shields and set screws, I. S. K. Standard	0	14	3	"
			0	11	9	"
E1137	Axle Guards	With brilles and bolts	3	7	0	Set.
E1150	Regie centres	Cast steel, sets of two castings each	12	10	0	"
E1137	Brake gear	Complete to drawing E380	0	12	8	Each.
E1173	Chains	Safety with eyebolts and washers				

CLASS OF STORES. E.—TOOLS AND STORES, SUB-HEAD *b.*—COACHING AND GOODS STOCK—(2) IRON WORK—contd.
 FOR 5' 6" GAUGE RAILWAYS.
 Contracted for in 1887.

Contract Number.	Articles.	Details.	RATE—PER ON BOARD.				REMARKS.
			Amount.	Unit.			
1157	Cotters, split	No. 1	£ 0	2	2½	Dozen.	
		" 2	0	2	5½	"	
		" 3	0	1	5½	"	
		" 4	0	1	1½	"	
		" 5	0	0	8	"	
		" 6	0	0	3½	"	
1173	Draw bar hooks	With washers, &c., complete	1	6	6	Each.	
1187	Guides, spindles	For buffer, D type	0	10	0	Each.	
E1150	Links	Swing, with bottom plates, bars, &c.	2	5	0	Each.	
1187	Iron sheets	Corrugated, galvanized, curved 10' 6" x 2' 6" x 3" pitch x 1" deep, 14 lbs per square foot	13	2	5	Ton.	
		" " " roofing 8' 6", radius, 11' 6", long x 5" pitch x 1" deep No. 18	1½	2	6	"	
		B. W. G.					

CLASS OF STORES. E.—ROLLING STOCK, SUB-HEAD *b.*—COACHING AND GOODS STOCK—(2) IRON WORK—contd.
 FOR 5' 6" GAUGE RAILWAYS.
 Contracted for in 1887.

Contract Number.	Articles.	Details.	RATE—PER ON BOARD.				REMARKS.
			Amount.	Unit.			
306		Bearings, complete, for wagons	£ 1	8	2	Each.	
35		" " " wagon with ten plates with scroll iron pins, &c., complete, stand- ard pattern	0	17	10	"	
66		Bearings, with clips for wagon stock, 10 plates, with scroll iron pins, &c., complete	0	17	10	"	
314		" " " with clips for wagon stock	0	8	7	"	
E1145		" " " complete for wagons	0	18	6	"	
E1172		" " " for wagons	0	18	0	"	
312	Springs	Buffer, recoil, Timmis'	0	4	9	"	
"		" Timmis'	0	19	3	"	
E1145		Elliptical, complete	1	17	6	Group.	
E1136		Timmis Patent, unequal section—	0	8	3	Each.	
"		B	0	9	0	"	
"		B2	0	13	0	"	
"		C					

CLASS OF STORES. E.—ROLLING STOCK, SUB-HEAD b.—COACHING AND GOODS STOCK—(2) IRON WORK—contd.

FOR 5' 6" GAUGE RAILWAYS.

Contracted for in 1887.

Contract Number.	Articles.	Details.	RATE—PER ON BOARD.			REMARKS.
			Amount.	Unit.	Unit.	
E1136	Flouris patent unequal section—					
	C2	...	£ 0 14 0	Each.		
	F	...	0 4 6	"		
	G	...	0 15 0	"		
	G2	...	0 16 6	"		
	H	...	0 12 6	"		
	H2	...	0 16 0	"		
	I	...	0 15 0	"		
	J	...	0 15 0	"		
E1145	Triple coil, nest	...	0 10 0	Nest.		
"	Volute 9½" × 6½" × 2½" hole	...	0 4 9	Each.		
303	Volute	...	0 0 0	"		
E1173	Volutes, buffer	...	0 4 6	"		
	" draw	...	0 5 0	"		

CLASS OF STORES. E.—ROLLING STOCK, SUB-HEAD b.—COACHING AND GOODS STOCK—(2) IRON WORK—contd.

FOR 5' 6" GAUGE RAILWAY.

Contracted for in 1887.

Contract Number.	Articles.	Details.	RATE—PER ON BOARD.				REMARKS.
			Amount.			Unit.	
			£	s.	d.		
491	Tyres	Steel, 3' 2" inside rolled diameter	1	11	2	Each.	
E 1175	For carriages and wagons		12	2	6	Pair.	
E 1143	Ditto		12	0	6	"	
307	Ditto		12	2	6	"	
125	For mining wagons, cast steel		0	9	9	"	
E 1146	"		0	12	6	"	
E 1156	For Placelayer's light inspection trolleys, to be ground on tread		6	12	8	Set.	

CLASS OF STORES. E.—ROLLING STOCK, SUB-HEAD b.—COACHING AND GOODS STOCK—(2) IRON WORK—contd.
 FOR METRE GAUGE RAILWAYS.
 Contracted for in 1887.

Contract Number.	Articles.	Details.	RATE—PER ON BOARD.				REMARKS.
			Amount.		Unit.		
			2.	1.	d.	Each.	
E 1167	Axles	Steel, for carriages and wagons	0	8	0	Each.	
340	Axle boxes	Complete, with gun metal bearings, washers and wrought-iron shields and set screws	0	10	0	"	
341		"	0	10	6	"	
507		"	0	8	0	"	
346		"	0	10	0	"	
341		"	3	15	6	"	
103	Buffers	Coupling (Jones' flexible) complete, with screw coupling, 1 volute spring, 2 spring sockets	8	13	5	"	
446		Flexible, and screw couplings for wagons, complete, with steel springs	2	4	3	"	
103		Hook, with one volute spring and 2 spring sockets, for Jones' flexible couplings	0	7	11	"	
E 1165	Iron corrugated	Coupling, standard pattern, for Jones' flexible couplings	11	10	0	Ton.	
		Galvanized, for roof 6' x 2' 2" x 2 1/2" B. W. G.					
		" 7' x 2' 2" x 2 1/2" "					

CLASS OF STORES. E.—ROLLING STOCK, SUB-HEAD b.—COACHING AND GOODS STOCK—(2) IRON WORK—contd.
 FOR METRE GAUGE RAILWAYS.
 Contracted for in 1887.

Contract Number.	Articles.	Details.	RATE—PER ON BOARD.				REMARKS.
			Amount.		Unit.		
			£	s.		Each.	
305		Bearing, carriage, tension	0	17	8	Each.	
"		"	0	18	9	"	
"		"	0	17	0	"	
503		" laminated, 7 plates	1	0	3	"	
503		" carriage, laminated 6 plates	1	0	3	"	
505		" for Brake vans	0	18	9	"	
412		" for wagons with clips	0	8	8 1/2	"	
E 1159		" laminated	0	9	4 1/2	"	
505		"	0	6	6 1/2	"	
505		"	0	6	8	"	
505		"	0	6	3	"	
"		Buffer volute	0	8	2	"	
404		"	0	6	3	"	
505		"	0	7	0	"	
446		" steel	0	9	0	"	
E 1151		Buffer, Spiral steel, "Tinnis", 10 1/2" x 7 1/2" x 1 1/2"					

CLASS OF STORES. E.—ROLLING STOCK, SUB-HEAD b.—COACHING AND GOODS STOCK—(3) METALLIC AND
OTHER FITTINGS.
Contracted for in 1887.

Contract Number.	Articles.	Details.	RATE—FEE ON BOARD.				REMARKS.	
			Amount.		Unit.			
			£	s.	d.	St. ft. Each.		
1187	Gauze Glasses, looking...	Iron, wove, plain, 3' wide x 1" mesh	2	0	0	2	St. ft.	
E1159		18" x 18" x 1" in teak wood frames.	0	17	3	3	Each.	
308	Glass window plate.	Neutral tint 18½" x 18½" x 1½"	0	6	10½	10½	Each.	
"		18" x 14½" x 1½"	0	5	5	5	"	
309		24" x 19" x 1"	0	6	0½	0½	"	
E1168		21" x 21" x 1½"	0	4	2½	2½	"	
"		21" x 18½" x 1½"	0	3	10½	10½	"	
"		21" x 4" x 1½"	0	0	9½	9½	"	
309		19" x 19" x 1½"	0	3	9½	9½	"	
"		18½" x 18½" x 1½"	0	3	9½	9½	"	
1163		18½" x 18½" x 1½"	0	3	6	6	"	
309		18½" x 17½" x 1½"	0	3	6½	6½	"	
1163		16" x 16" x 1½"	0	2	4	4	"	
								For carriage stock.

CLASS OF STORES. E.—ROLLING STOCK, SUB-HEAD *b.*—COACHING AND GOODS STOCK—(3) METALLIC AND
OTHER FITTINGS—*contd.*
Contracted for in 1887.

Contract Number	Articles	Details	RATE—PAID ON BOARD.				REMARKS
			Amount			Unit	
			£	s.	d.		
1137	Handles	Brass, with lock caps and plates, complete	0	4	0	Each.	
		Carriage door, malleable cast iron	0	1	4	"	
		Type door, with staples	0	3	4	"	
	Hinges	Wrought-iron sunshade	0	0	3	Each.	
Carriage door		0	2	11	"		
	Hooks	or hat pegs, malleable cast iron	0	0	3	Each.	
	Lifts	Brass top for ventilators	0	0	5	Each.	
		Finger	0	1	9	Dozen.	
	Locks	Iron, private, with plates for carriage doors	0	0	4	Each.	
		With handles and plates for lavatory doors, gun metal	0	4	3	"	

CLASS OF STORES. E.—ROLLING STOCK, SUB-HEAD *b.*—COACHING AND GOODS STOCK—(3) METALLIC AND
OTHER FITTINGS—*contd.*

Contracted for in 1887.

Contract Number.	Articles.	Details.	RATE—PAID ON BOARD.				REMARKS.
			Amount.			Unit.	
			£	s.	d.		
1173	Plates	Brass fence for windows	0	1	1	Dozen.	
		" angle	0	1	1	"	
		" keyhole	0	2	4	"	
		" lap	0	0	4	Foot.	
	Studs	For glass frame straps	0	1	9	Dozen.	

CLASS E.

ROLLING-STOCK.

2.—COACHING AND GOODS STOCK.

(4) India Rubber Fittings.

CLASS E.
ROLLING-STOCK.

1.-COACHING AND GOODS STOCK.

(5) Trimmings.

CLASS OF STORES. E.—ROLLING STOCK, SUB-HEAD L.—COACHING AND GOODS STOCK—(5) TRIMMINGS.
Contracted for in 1887.

Contract Number.	Articles.	Details.	Rate—Pay or Paid.			Unit.	Remarks.
			£	s	d		
G1873	Buttons	Repp, figured 4"	0	1	1	Gross.	
433		"	0	1	4	"	
G1873		" plain 4"	0	1	1	"	
323		"	0	0	1	Dozen.	
1875	Cloth	Buize, dark green, 72" wide	0	5	11	Yard.	(Pattern oak, geometrical.)
44		Floor 8 feet wide, in lengths of 25 yards each	0	10	0	"	
"		" green 8' 6" wide, in lengths of 8 yards each	0	0	34	Sq. ft.	
G1873		Repp, figured, 54" wide	0	3	7	Yard.	
433	"	" figured or " York Ferry," 54" wide	0	3	8	"	
323		" " or " York Ferry "	0	2	11	"	
E1171	Hides	Buffalo for cushions, maroon color, hand bagged to arrange 60 square feet each	2	12	5	...	Lion brand.

Appendix A.

Price of duplicates for metre gauge engine and tender class F, supplied on Contract No. 80 of 1887.

DESCRIPTION.	Total delivered in the store depôt per cent.	REMARKS.
ENGINE.	£ s. d.	
1 Set of wheels and axles	105 10 0	
2 Sets of tyres	30 5 0	
1 Set of axle boxes	36 10 0	
2 Sets of bearing springs, complete	35 10 0	
1 Set of connecting rods, &c., complete	14 10 0	
1 " bearings for ditto	4 10 0	
1 " coupling rods, complete	15 0 0	
1 " bearings for ditto	3 3 0	
1 " slide bars, &c.	20 10 0	
1 " cylinders, &c.	54 10 0	
1 " piston rods and slide valves	8 0 0	
10 Sets of piston packing rings (cast iron)	5 0 0	
1 Set of valve gear	40 0 0	
1 " buffers and draw gear for both ends of engine	9 0 0	
2 Injectors and pipes	9 0 0	
4 Sets of spare cones for injectors...	6 0 0	
2 Boiler clack boxes	7 10 0	
2 Sets of cocks and fittings	39 10 0	
1 Whistle	1 18 0	
4 Wash-out plugs, scalings and caps	2 10 0	
1 Regulator stuffing box and gland	0 7 0	
2 Springs for safety valves	2 10 0	
2 Steam pressure gauges	73 0 0	
1 Set of boiler tubes and ferrules	27 10 0	
10 Sets of fire bars and 2 sets of bearers	8 0 0	
5 gross of gauge glasses	2 0 0	
20 Spectacle glasses	30 0 0	
3 Sets of lamps	18 10 0	
1 Set of steam brake gear, complete, with shaft levers, screw, &c.		
TENDER.		
1 Set of wheels and axles	33 10 0	
2 Sets of tyres	18 10 0	
1 Set of axle boxes and bearings	12 0 0	
1 " of feed pipe apparatus, ball and socket pipes and feed valves	15 15 0	
1 " of brake apparatus, complete, with shaft, screw, &c.	20 0 0	
2 Sets of buffers and draw gear, with springs	21 10 0	
2 " of bearing springs	13 0 0	

Appendix B.

Duplicate wearing parts for the engines supplied on Contract No. 1163 of 1867—1865.

- 4 Driving wheels with steel tyres.
- 4 Cast steel bogie wheels (or steel tyres).
- 2 Sets of bearing springs throughout.
- 2 Complete sets of brasses for leading, driving and bogie axle boxes.
- 2 Complete sets of bushes for connecting and coupling rods.
- 2 Front cylinder covers, with glands and studs.
- 2 Back cylinder covers.
- 2 Pistons complete, with rings and springs.
- 8 Brass piston rings.
- 4 Gun metal slide valves.
- 12 Boiler tubes and 24 ferrules.
- 8 Fusible plugs.
- 12 Water gauge glasses and 24 I. R. washers for do.
- 2 Sets of cross head sleepers.
- 8 Radius dies.
- 8 Brake blocks.
- 6 Sets of firebars.

Circular No. 20.

FROM

THE DIRECTOR GENERAL OF RAILWAYS,

TO

THE DIRECTOR, NORTH WESTERN RAILWAY.

THE MANAGER, OUDH AND ROHILKHAND RAILWAY.

THE SUPERINTENDENT, WAY AND WORKS, CHAMAN EXTENSION.

THE ENGINEER-IN-CHIEF, MOGULSARAI-HOWRAH RAILWAY.

THE PORT STOREKEEPER, STATE RAILWAY SURVEY DEPARTMENT, CALCUTTA.

Rate List for Class E, State Railway Stores—"Rolling Stock"
for 1887.

Simla, the 27th March 1890.

SIR,

In continuation of my Circular No. 8 of the 31st July 1888, I have the honour to forward herewith for information and guidance a printed statement showing the actual rates, *free on board*, in England for Rolling Stock, (State Railway Stores, "E class") contracted for by the Stores Department of the India Office during 1887.

I have the honour to be,

SIR,

Your most obedient servant,

E. H. STONE,

for Director General of Railways.

Documents accompanying.

Rate List, "Class E," Rolling Stock, for
1887.

No. 1440 W of 23 May 1890

No. 1440 W of 23 May 1890

B

Communicated to the
- ficers of the P.W. Dept
in continuation of G. O.
No 461 W. dated 12 Feb 1890.

17.5.90
Recd 19.5.90

FROM
THE DIRECTOR GENERAL
OF RAILWAYS,

To

11/

Circular No. 20.
Dated Simla, the 27th March 1890.
Received

No. 1440 W of 23 May 1890

11/

Chief Engr for Bridge
Chief Engr Bridge Dept
Sup Engrs
C. W. Dept
C. W. Dept
17/11/90

RATE LIST FOR CLASS E, STATE RAILWAY
STORES.
"Rolling Stock" for 1887.

O. C. Press, Simla.—No. 1203 P. W. P.—10450—1,106