the Executive Engineers to frame &c.—

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P.W. 2461 May 23-9-06

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Public Works Department.

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Order thereon No 2461 W dated 23rd September I886.

The statements will be distributed as under :-

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Consulting Architect to Government	2
Chairman, Harbour Trust Board	2
Examiner Public Works Accounts	I
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(True Extract)

D.M.V. Campbell Major R.E.

Under Secretary to Government P.W.D.

To

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Supt of Works, T.M. Scheme.
Consg Archt to Govt.
Chairman, Harbour Trust Board.
Examiner, P.W. Accounts.

Distribution list of 60 copies of printed statements showing the actual English rates for state Railway stores imported through the agency of the India office during the year 1884 - in continuation of U.O. no: 2461W d/23-9-86.

Six Supg Engineers	8 copies each	48
Examiner P.W. Accounts		5
Chairman H.T. Board		2
Examiner of state Ry accts		5

10-12-86

Desptd 11/12/86

8470

No. 2035 S.

From

THE DIRECTOR GENERAL OF RAILWAYS,

To

The Secretary to the Government of Mad
Public Works Department

Simla 13th August 1886.
Dept 16/8/86.

Sir,

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Rcd. 23.8.86

Bookseed.

I have the honor to be,
Sir,
Your most obedient servant,
L. F. Wilson Captain RE.
for Director General.

Accompaniments

50 Copies of each of rate lists classes A to G
(General distribution)
Director General of Railways' circular No 15 of 26-10-85 & enclosure
" " " " No 23 of 19-12-85 "
" " " " No 24 of 24-12-85 "
" " " " No 18 of 7-11-85 "
" " " " No 6 of 13-2-86 "
" " " " No 13 of 23-10-85 "
" " " " No 2 of 21-1-86 "

PUBLIC WORKS DEPARTMENT.

No 2464-W

B

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PROCEEDINGS OF THE MADRAS GOVERNMENT.

23 Sept/86

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From the Director Genl. of Railways. No. 2035. S. & 13/8/86.

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C. A.
Ch: H. Trust Bd.
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22/9/86

Jm 22/9/86.

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Nos: 2461 to 2461 dated 23-9-86.

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23/9/86

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2. The percentage that should be allowed for the entire sea freight is noted at the foot of the statements as also the rates for landing and the insurance charge.

3. These rate lists will enable the Executive Engineers to frame estimates for Indents on England and to compare the prices paid by them for stores of European manufacture purchased locally with the rates they would have had to pay for the same if imported through the India Office.

Order thereon No 2461 W dated 23rd September 1886.

The statements will be distributed as under :-

Superintending Engineers seven copies each	42
Supt. of Works Tank Maintenance Scheme	I
Consulting Architect to Government	2
Chairman, Harbour Trust Board	2
Examiner Public Works Accounts	I
	48

Enclosure to Director General of Railways' Circular No. 15 of 1885.

PUBLIC WORKS SECRETARIAT 3256 LIBRARY

A.—Iron Bridgework.

Statement showing cost of each span of girders contracted for by the India Office from January to December 1884.

DIRECTOR GENERAL OF RAILWAYS.

STORES.

To

Circular No. 15.

Dated Simla, October 26, 1885.

Received

INDIAN STATE RAILWAYS.

Statement showing actual English and approximate Indian cost of Class A.—"Iron Bridge-work."

Govt. C. B. Press, Simla.—No. 503 D. G. R.—3-11-85.—2,035.

[*For General Distribution.*]

Circular No. 15.

DIRECTOR GENERAL OF RAILWAYS.

STORES.

To

The Managers, Punjab Northern, Indus Valley, and Eastern Bengal State Railways.

The Engineers-in-Chief, Jhansi-Manikpur, Bellary-Kistna, Nagpur-Bengal, Bilaspur-Etawah, Sind-Pishin, Bolan, and Sind-Sagar State Railways.

The Engineer-in-Chief, Ferozepore Bridge Works.

The Port Storekeepers, State Railway Department, Calcutta, Bombay, and Karachi.

Simla, October 26, 1885.

Sir,

I have the honor to forward herewith, for information and guidance, a printed statement showing actual English cost, including $\frac{4}{5}$ths sea freight, paid in England, and approximate Indian charges for each span of girders contracted for by the India Office from January to December 1884. The details of the girders have been given as far as possible.

I have the honor to be,

Sir,

Your most obedient Servant,

T. F. DOWDEN, Colonel, R.E.,

for Director General.

Document accompanying.

Statement showing cost of Girders contracted for during 1884.

The Secretaries to the Governments of Bengal, North-Western Provinces and Oudh, and the Punjab, Public Works Department.
The Secretaries to the Chief Commissioner of the Central Provinces, British Burma and Assam, Public Works Department.
The Secretaries to the Residents of Hyderabad and Mysore, Public Works Department.
The Secretaries to the Agents to the Governor General, Rajputana, Central India, and Biluchistan, Public Works Department.
The Superintendent of Port Blair and Chief Commissioner, Andaman and Nicobar Islands.
The Consulting Engineers for Railways, Madras and Bombay.
The Consulting Engineers to the Government of India for Guaranteed Railways, Calcutta, Lahore, and Lucknow.
The Agents and Chief Engineers, Bengal and North-Western and Bengal Central Railway Companies, and His Highness the Nizam's Guaranteed Railway Company, Limited.
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.

T. F. DOWDEN, Colonel, R.E.,

for Director General.

PUBLIC WORKS SECRETARIAT
3256
LIBRARY

Enclosure to Director General of Railways' Circular No. 15 of 1885.

A.—Iron Bridgework.

Statement showing cost of each span of girders contracted for by the India Office from January to December 1884.

Enclosure to Director General of Railways' Circular No. 15 of 1885.

A.—Iron Bridgework. **INDIAN STATE RAILWAYS.** *A.—Iron Bridgework.*

Statement showing actual English and approximate Indian cost of each span of girders contracted for by the India Office from January to December 1884.

Contract. No. A.	Year.	Month.	No. of Indent.	For what Railway indented.	Description. Articles. Feet clear.	No. of spans contracted for.	Details.	Gauge.	Roadway on upper or lower boom.	Weight of each span as per contract.	No. of India Office Drawings. Original.	Completion.	Contract rate F. O. B. in England. Amount.	Unit.	Cost of each span as per invoice. English cost. Price F. O. B. in England.	½ths freight paid in England.	Total.	Indian cost. ½th freight paid in India @ 1s. 7½ the rupee.	Landing and other charges at port.	Total.	Total English @ 2s. the rupee, and Indian.	Details of Shipment. Vessel.	Port.	Remarks.
											A.	A.	*					†						
										T. c. qr. lbs.			£ s. d.		£ s. d.	£ s. d.	£ s. d.	Rs. A. P.	Rs. A. P.	Rs. A. P.	Rs. A. P.			
123	1884	25th Feb.	86 of 1883	Jhansi-Manikpur.	6	10	Plate	Metre	Upper ...	0 10 2 19	383	501	10 12 6	Ton	6 2 8	0 12 10	6 15 6	1 15 6	1 1 0	3 0 6	70 12 6	"Manora," 18th Feb. 1885.	C.	
131	1884	17th Oct.	39 of 1884	Bellary-Kistna	10	46	Plate	Metre	Upper ...	0 18 3 13	342	507	10 0 0	Ton	9 8 8	0 16 3	10 4 11	2 8 3	...	...	...	"Pelican," 15th Jan. 1885.	M.	
128	1884	25th Feb.	86 of 1883	Jhansi-Manikpur.	20	33	Plate	Metre	Upper ...	2 10 1 20	336	502	10 12 6	Ton	27 2 8	2 10 4	29 13 0	7 12 3	...	...	...	"Algitha," 20th Feb. 1885.	M.	
126	,,	22nd May	23 of 1884	Sind-Pishin ...	20	25	Plate	5′ 6″	,, ...	3 5 1 25	387	510	11 15 0	,,	37 8 9	3 4 10	40 13 7	9 15 8	9 13 2	19 12 10	426 9 6	"Merton Hall," 20th Nov. 1884.	K.	
129	,,	15th Aug.	Do.	Ditto ...	20	5	Plate	5′ 6″	,, ...	3 5 1 25	387	487/1—2	12 10 0	,,	40 18 5	3 11 5	44 9 10	10 15 9	9 14 0	20 13 9	465 12 5	"Huzara," 18th Dec. 1884.	K.	
131	,,	17th Oct.	31 of 1884	Tirhoot ...	20	100	Plate	Metre	,, ...	2 10 1 20	336	508	10 5 0	,,	25 16 11	2 2 7	27 19 6	6 9 4	‡ 10 4 10	16 14 2	296 10 2	"Dacca," 21st Jan. 1885.	C.	‡ Includes the insurance charges.
			30 of 1884	Bellary-Kistna	20	61	Plate	Metre	,, ...						27 3 11	2 10 4	29 14 3	7 12 3	...	...	...	"Algitha," 24th Feb. 1885.	M.	
132	,,	5th Dec.	71 of 1884	Bhavnagar-Gondal.	20	3	Plate	Metre	,, ...	2 10 1 20	336	...	81 17 6	Total	27 5 10	2 6 4	29 12 2	7 2 4	5 0 8	12 3 0	309 7 0	"Malwa," 4th Feb. 1885.	B.	
133	,,	13th ,,	23 of 1884	Sind-Pishin ...	20	35	Plate	5′ 6″	,, ...	3 5 1 25	387	...	11 5 0	Ton	36 16 7	2 12 4	39 8 11	8 1 1	9 13 2	17 14 3	412 5 7	"Cambodia," 22nd May 1885.	K.	
134	,,	19th ,,	68 of 1884	Cawnpore-Kalpi.	20	7	Plate	5′ 6″	,, ...	3 5 1 25	387	530	10 15 0	,,	35 1 6	1 18 7	37 0 1	5 15 5	6 8 9	12 8 2	382 8 10	"Mira," 2nd May 1885	C.	

* For all wrought-iron work.

† ½ freight paid in India converted into Indian money at 1s. 7½d. the rupee.

Statement showing actual English and approximate Indian cost of each span of girders contracted for by the India Office from January to December 1884—contd.

Contract. No. A.	Year.	Month.	No. of Indent.	For what Railway indented.	Description. Articles. Feet clear.	No. of spans contracted for.	Details.	Gauge.	Roadway on upper or lower boom.	Weight of each span as per contract.	No. of India Office Drawings. Original.	Completion.	Contract rate F. O. B. in England. Amount.	Unit.	Cost of each span as per invoice. English cost. Price F. O. B. in England.	¼ths freight paid in England.	Total.	Indian cost. ¼th freight paid in India @ 1s. 7½ the rupee.	Landing and other charges at Port.	Total.	Total English @ 2s. the rupee and Indian.	Details of Shipment. Vessel.	Port.	Remarks.
										T. c. qr. lbs.	A.	A.	£ s. d.		£ s. d.	£ s. d.	£ s. d.	Rs. A. P. †	Rs. A. P.	Rs. A. P.	Rs. A. P.			
123	1884	25th Feb	86 of 1883	Jhansi-Manikpur.	40	76	Plate	Metre	Upper ...	8 0 0 9	341	486	10 12 6	Ton	85 4 10	8 13 4	93 18 2	26 11 11	...	...	...	"Navarino," 12th Nov. 1884.	M.	
131	,,	17th Oct.	31 of 1884	Tirhoot ...	40	15	Plate	Metre	,, ...	8 0 0 9	341	509	11 10 0	,,	94 15 2	7 5 8	102 0 10	22 7 7	16 0 1	38 7 8	1,038 14 4	"Mirzapore," 11th Feb. 1885.	C.	
134	,,	19th Dec.	68 of 1884	Cawnpore-Kalpi.	40	8	Plate	5′ 6″	,, ...	10 1 0 10	388	531	10 15 0	,,	108 1 8	5 18 3	113 19 11	18 3 3	20 1 9	38 5 0	1,178 4 4	"Mira," 2nd May 1885	C.	
131	1884	17th Oct.	31 of 1884	Tirhoot ...	60	4	Warren	Metre	Upper ...	17 1* 0 14	419	523-524	12 0 0	Ton	208 18 3	16 5 2	225 3 5	50 2 5	35 3 5	85 5 10	2,337 1 2	"Navarino," 4th Mar. 1885.	C.	
134	,,	19th Dec.	68 of 1884	Cawnpore-Kalpi.	60	8	Plate	5′ 6″	,, ...	22 12 1 18	380	532	10 15 0	,,	243 4 1	19 18 3	263 2 4	61 6 8	45 3 10	106 10 6	2,737 13 2	"Navarino," 24th June 1885.	C.	
124	1884	25th Feb.	86 of 1883	Jhansi-Manikpur.	100	42	Whipple Murphy.	Metre	Upper...	36 16 1 3	370	516-517	12 5 0	Ton	454 3 8	32 7 11	496 11 7	99 15 3	...	...	...	"Rewah," 3rd Sept. 1884.	M.	
															464 8 3	31 12 10	496 1 1	97 9 11	73 10 0	171 3 11	5,131 12 7	"Arabia," 7th March 1885.	C.	
126	1884	22nd May	23 of 1884	Sind-Pishin ...	100	7	Warren	5′ 6″	Lower ...	84 2 1 20	471	518-519	13 0 0	Ton	1,077 18 9	100 11 10	1,178 10	309 7 9	250 3 4	559 11 1	12,344 15 9	"Belgravia," 4th Jan. 1885.	K.	
129	,,	15th Aug.	23 of ,,	Ditto ...	100	3	Ditto.	,,	,, ...	84 2 1 20	471	50 1-4 &504	13 15 0	,,	1,114 12 2	71 4 7	1,185 16 9	219 3 2	252 7 0	471 10 2	12,330 0 2	"Inchmornish," 27th Jan. 1885.	K.	
133	,,	13th Dec.	23 of ,,	Ditto ...	100	7	Triangulated.	5′ 6″	,, ...	84 2 1 20	471	...	11 10 0	,,	972 0 8	70 10 3	1,042 10 11	219 12 9	249 9 1	469 5 10	10,894 13 2	"Huzara," 18th May 1885.	K.	
130	1884	1st Oct.	81 of 1884	Nagpur-Chhattisgarh.	132	1	Warren	5′ 6″	Lower ...	121 1 2 0	483-484	505 1-2 &506	13 0 0	Ton	1,586 16 1	113 17 3	1,700 13 4	350 5 9	‡428 7 10	778 13 7	17,785 8 3	"Malwa," 4th Feb.1885	B.	‡ Includes also the Insurance charges.
126	1884	22nd May	23 of 1884	Sind-Pishin ...	150	20	Warren	5′ 6″	Lower ...	152 12 2 -2	472-473	511 1-2 &512	13 0 0	Ton	1,9104 4 3	140 3 6	2,050 17 9	434 7 7	445 3 5	879 11 0	21,388 9 0	"Merton Hall," 20th Nov. 1884.	K.	Invoice weight 148-8-0-11.
127	,,	23rd ,,	23 of ,,	Ditto ...	150	10	Warren	5′ 6″	,, ...	152 12 2 2	Ditto	481 1-4 & 482	22,127 0 0	Total	2,212 8 2	169 14 1	2,382 2 3	522 2 6	457 11 10	979 14 4	24,801 0 4	"Nubia," 8th Oct. 1884	K.	
133	,,	13th Dec.	23 of ,,	Ditto ...	150	6	Triangulated.	5′ 6″	,, ...	152 12 2 2	Ditto	...	11 5 0	Ton	2,212 8 2	166 12 4	2,379 0 6	519 4 11	457 11 10	977 0 9	24,767 4 9	"Henzada," 11th July 1885.	K.	

* For all wrought-iron work.

† ¼ freight paid in India converted into Indian money at 1s. 7½d. the rupee.

Statement showing actual English and approximate Indian cost of each span of girders contracted for by the India Office from January to December 1884—contd.

Contract. No. A.	Year.	Month.	No. of Indent.	For what Railway indented.	Description. Articles. Feet clear.	No. of spans contracted for.	Details.	Gauge.	Roadway on upper or lower boom.	Weight of each span as per contract.	No. of India Office Drawings. Original.	Completion.	Contract rate F. O. B. in England. Amount.	Unit.	Cost of each span as per invoice. English cost. Price F. O. B. in England.	¼ths freight paid in England.	Total.	Indian cost. ¼th freight paid in India @ 1s. 7½ the rupee.	Landing and other charges at Port.	To al.	Total English @ 2s. the rupee and Indian.	Details of Shipment. Vessels.	Port.	Remarks.
										T. c. qr. lbs.	A.	A.	£ s. d.		£ s. d.	£. s. d.	£ s. d.	Rs. A. P. †	Rs. A. P.	Rs. A. P.	Rs. A. P.			
125	1884	15th Apl.	86 of 1883	Jhansi-Manikpur.	250	1	Whipple Murphy.	Metre	Lower ...	273 4 2 16	484-66	488-491	4,009 17 1	Span	4,009 17 1	281 3 0	4,291 0 1	876 0 10	...	...	...	"Cormorant," 20th Nov. 1884.	M.	Invoice weight 821-3-0-0.
							With the 250′ span are to be supplied:—																	
							220 sleeper bolts.																	
							11,000 coach screws, ⅜″ diameter.																	
							1,700 wood screws, ¼″ diameter.																	
							30 cwt. service bolts, and 15 ,, ordinary plater's washers.																	
							The weights and rates of different parts are as follows:—			T. c. qr. lbs.														
							For all steel work ...			200 12 3 5	...	...	14 8 6	Ton										
							,, ,, wrought-iron work			45 7 2 4	...	...	13 5 0	,,										
							,, steel in rollers ...			2 8 1 24	...	...	28 0 0	,,										
							,, cast-iron ...			13 11 0 4	...	...	11 0 0	,,										
							,, wrought-iron in roller frames			7 4 0 2	...	...	25 0 0	,,										
							,, Bolts nuts, and washers			0 13 1 23	...	...	20 0 0	,,										
							,, coach and wood screws			1 2 1 10	...	...	40 0 0	,,										
							Service bolts ...			2 5 0 0	...	...	18 0 0	,,										

* For all wrought-iron work.

† ¼th freight paid in India converted into Indian money at 1s. 7¾ d. to the rupee.

Note.—In all cases one per cent. on English cost *plus* entire sea freight should be added to cover insurance (P. W. D. Code XIV, vii 161, as amended by Standing Orders Nos. 62, 75 and 77 of 1884).

Statement showing actual English and approximate Indian cost of each span of girders contracted for by the India Office from January to December 1884—concld.

Contract. No.	Contract. Date.	Number of Indent.	For what Railway indented.	Article.	Description.	Quantity. Number.	Quantity. Weight.	Contract Rate F. O. B. in England. Amount.	Contract Rate F. O. B. in England. Unit.	Cost as per Invoice. English. Price F. O. B. in England.	English. ⅓th sea freight paid in England.	English. Total.	Indian. ⅓th sea freight paid in India.	Indian. Landing and other charges at Port.	Indian. Total.	Total English @ 2s. per rupee and Indian.	Name of vessel.	Date of sailing.	Port	Remarks.
							T. c. qr. lb.	£ s. d.		£ s. d.	£ s. d.	£ s. d.	*			Rs. A. P.				
A. 122	29-1-84	83 of 1883	Rajputana-Malwa.	Hook bolts (For holding down sleepers).	8½″ × ⅞″ diameter ...	150	0 4 1 24	1 2 0	Cwt.	4 18 2	...	...	...	0 7 1	...	...	† S. S. "Tenasserim."	30th April 1884.	B.	
A. 128	11-6-84	13 of 1884	Rajputana-Malwa.	Ditto ...	7″ × ⅞″ ,, ...	75	0 1 3 19	1 4 0	Cwt.	42 19 0	0 2 11	5 1 11	0 6 7	‡ 0 14 10	1 5 5	52 4 9	S. S. "St. Albans."	24th July 1884.	B.	‡ Includes Insurance charges.
					9″ × ⅞″ ,, ...	75	0 2 0 23													

* ⅓th freight paid in India converted into Indian money at 1s. 7½d. the rupee.

† Tonnage and freight account not received.

(Sd.) T. F. DOWDEN, Col., R.E.,

for Director General.

G. C. B. Press, Simla.—No. 533 D. G. R.—19-11-85.—2000.

B/S 24615/23/9/16

PUBLIC WORKS SECRETARIAT
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Enclosure to Director General of Railways' Circular No. 13 of 1885.

RATE LIST.

CLASS F.

STATION MATERIALS AND FENCING.

FOR 1884.

PUBLIC WORKS SECRETARIAT
No. 3256
LIBRARY

Enclosure to Director General of Railways' Circular No. 13 of 1885.

RATE LIST.

CLASS F.

Station Materials and Fencing.
For 1884.

Enclosure to Director General of Railways' Circular No. 13, dated the 23rd October 1885.

F. STATION MATERIALS AND FENCING.

Statement showing actual India Office Rates for Station Materials and Fencing from January to December 1884.

Contract. No. F.	Contract. Date.	For what Railway indented.	No. of Indent.	Articles.	Details.	Quantity contracted for.	Rate free on Board in England. Amount.	Rate free on Board in England. Unit.	No. of India Office drawing (if any). Origin 1 F.	No. of India Office drawing (if any). Completion F.	Remarks.
							£ s. d.				
550	29th Jan. 1884	J. M. S. Ry. ...	86 of 1883 ...	Apparatus for washing out locomotives.	Complete with cast-iron pan and wrought-iron cover, &c.	3 sets ...	16 7 6	Set	259	518	
561	14th March 1884	Ditto ...	Ditto ...	Cases, ticket; double door, complete.	Each case contains three rows of 25 tubes each (each tube to hold 100 tickets), and 3 rows of 25 tubes each (each tube to hold 50 tickets).	4 No. ...	8 12 0	Each	...	...	
561	14th March 1884	Ditto ...	Ditto ...	Cases, ticket; single door, complete.	Each case contains 2 rows of 13 tubes each (each tube to hold 100 tickets), and 3 rows of 13 tubes each (each tube to hold 50 tickets).	14 „ ...	5 0 0	„	...	...	
590	21st August 1884	N. C. ...	36 of 1884 ...	Clocks, Station ...	.....	6 No. ...	7 5 0	Each	...	...	
602	30th Oct. 1884	P. N. & C. K. ...	55 & 68 of 1884	Ditto ...	.....	12 „ ...	7 5 0	„	...	...	
588	6th August 1884	C. F. ...	21 of 1884 ...	Clock, turret ...	With four dials, 3′ 8″ diameter ...	1 No. ...	105 0 0	Each	...	...	This is not entered in the Nomenclature and Classification of Stores.
588	6th August 1884	Ditto ...	21 „ ...	Ditto ...	Cast-iron terminal for ...	1 „ ...	125 0 0	„	...	...	
554	8th Feb. 1884 ...	R. M. & J. M. ...	84 & 86 of 1883	Cranes, water pillar ...	(Or water columns) complete, 6″ diameter, 7′ 6″ centre of pillar to centre of hose.	3 No. ...	40 2 6	Each	265	519 1—2	
576	20th June 1884	Sind-Pishin ...	23 of 1884 ...	Ditto ...	Ditto ...	20 „ ...	38 10 0	„	265	537 1—2	
584	11th July 1884	R. M. ...	24 „ ...	Ditto ...	Ditto ...	12 „ ...	38 10 0	„	265	539 1—2	
605	14th Nov. 1884	Tirhoot & C. K.	56 & 68 of 1884	Ditto ...	Ditto ...	9 „ ...	38 10 0	„	265	551 1—3	
554	8th Feb. 1884 ...	R. M. ...	84 of 1883 ...	Ditto, spare parts of	Gun-metal valves and cotters ...	6 „ ...	3 18 0	„	...	...	
576	20th June 1884	R. M. ...	16 of 1884 ...	Ditto ...	Valves, stock and chest ...	10 „ ...	7 10 0	„	...	...	
579	1st July 1884 ...	C. F. ...	21 of 1884 ...	Engine, fire, hand ...	Complete, 2 cylinders each 6 inches diameter, 8 inches stroke.	1 No. ...	130 0 0	Total	...	545 1—3	With 12 buckets. This is classed under C. Workshop Machinery in the Nomenclature and Classification of Stores; same as supplied on F. 174.
582	10th July 1884...	Sind-Pishin ...	23 of 1884 ...	Engine, steam pumping, with pumps and boilers, complete.	6 horse-power for supplying water for the use of locomotives from wells 100 ft. deep; same as F 276. The general dimensions of the engines, boilers and pumps are as follows:— Diameter of cylinder ... 8 inches. Length of stroke ... 10 „ Diameter of boiler ... 3 ft. 2 „ Height of boiler ... 7 „ 0 „ Number of Galloway 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.	1 No. ...	309 10 0	Each	180 to 186	547 1—11	
573	30th May 1884	P. N. ...	32 of 1884 ...	Engine, steam pumping, spare parts of.	Crankshafts, steel strapped, with W. I. hoops for pumping engines, supplied on contract F 385.	2 No. ...	174 0 0	Total	...	...	
583	10th July 1884	I. V. ...	73 of 1883 ...		India-rubber cylindrical washers, 1¼″ × 5¼″ long, and 1¼″ bore for water valves for Tangye's pumps.	6 „ ...	0 3 11	Each	...	...	
564	14th March 1884	J. M. ...	86 of 1883 ...	Fencing; materials for	Bolts, eye, straining, galvanized, weighing 3·133 lbs. each, with two nuts and a washer.	3120 = 87¼ cwt. in all.	104 14 0	Total	...	...	
609	2nd Dec. 1884 ...	P. N. ...	67 of 1884 ...		Same as above ...	1 ton ...	24 0 0	Ton	...	...	
563	14th March 1884	J. M. ...	86 of 1883 ...		Wire, strand, galvanized, in coils of 450 yards each (7 strands No. 14 B. W. G.)	520 coils = 41—11—3—21	14 5 0	Ton	...	...	
558	14th March 1884	J. M. ...	86 of 1883 ...		Barb fencing of 2 wires (single) ...	2 miles ...	55 15 3	Mile	...	...	
					T. c. qr. lbs.						
					Fencing wire ... 1 7 2 25						
					Posts, spanners, &c. ... 4 5 2 6						
580	1st July 1884 ...	Sind-Pishin ...	23 of 1884 ...	Hydrants.	Cast-iron, complete, with hose and nozzle 30 ft. of 2½ inch, copper riveted (the rivets and burrs being tinned), leather hose with gun-metal couplings, and one copper nozzle with gun-metal cock are supplied with each.	2 No. ...	9 15 0	Each	437	543	
614	9th Dec. 1884 ...	C. K. ...	68 of 1884 ...		Same as above ...	...	9 15 0	„	437	553	
589	6th Aug. 1884...	E. B. ...	41 of 1884 ...	Machines, ticket-printing, and types for	Complete with type, as supplied to E. I. Ry. Co.	2 No. ...	125 0 0	Each	...	...	
594	6th Sep. 1884 ...	R. & S. V. ...	34 of 1884 ...		Complete with type ...	1 „ ...	125 0 0	„	...	...	
600	2nd Oct. 1884 ...	Tirhoot ...	44 of 1884 ...		Without type ...	1 „ ...	117 0 0	„	...	...	
594	6th Sep. 1884 ...	R. & S. V. ...	34 of 1884 ...		Types for ...	1 set ...	6 15 0	Set	...	...	
609 Extension	2nd Oct. 1884 ...	Tirhoot ...	44 of 1884 ...		Fount of types for, with spaces and quads to each. Consisting of—Brevier Antique ... No. 2. Non-pareil Antique ... „ 2. Two-line Pearl Sanserif „ 2 Brevier Sanserif „ 2. Supply of 4 and 8 to pica lead lines, two lengths of 8 to pica brass rule, 1 steel, and 1 pair brass tweezers.	1 „ ...	8 0 0	„	...	...	

F. STATION MATERIALS AND FENCING—*contd.*

Contract. No.	Contract. Date.	For what Railway indented.	No. of Indent.	Articles.	Details.	Quantity contracted for.	Rate free on board in England. Amount. £ s. d.	Rate free on board in England. Unit.	No. of India Office drawing (if any). Original F.	No. of India Office drawing (if any). Completion 4.	Remarks.
551	14th March 1884	J. M. ...	86 of 1883 ...	Nippers, ticket.	Nos. 1 to 9	9 No. ...	0 3 6	Each	...	...	This is classified in the Nomenclature and Classification of Stores as G.—(a) Tools.
					,, 10 ,, 24	15 ,, ...	0 4 0	,,	...	...	
595	5th Sep. 1884 ...	N. C. ...	36 of 1884 ...		Nos. 1 to 9	9 ,, ...	0 3 6	,,	...	...	
					,, 10 ,, 20	11 ,, ...	0 4 0	,,	...	...	
548	13th Jan. 1884	R. M. ...	85 of 1883 ...	Pipes, iron, cast, and connections for	Turned and bored 9' long and 5" diam.	10 No. = 1-0-0-2	4 18 9	Ton			
574	20th May 1884...	R. M. ...	8 of 1884 ...		Turned and bored 9' long and 6" diam.	4 ,, = 0-10-0-12 6 ,, = 0-7-0-0	6 0 0	Total			
605	14th Nov. 1884...	Tirhoot ...	56 of 1884 ...		Quarter bends for—	150 lin. ft. ...	13 12 6	,,			
					Turned and bored 9' long and 6" diam.	10 ...	7 15 0	,,			
613	9th Dec. 1884 ...	I. V. ...	60 of 1884 ...		Quarter bends for—						
					Double flanged						
					6" bore, ⅜" thick, 1' long	6 No. ...					
					Ditto 2' ,,	6 ,, ...					
					Ditto 3' ,,	6 ,, ...					
					Ditto 4' ,,	6 ,, ...	10 12 6	Ton	...	...	Estimated weight 3—6—0—0.
					Ditto 5' ,,	6 ,, ...					
					Ditto 6' ,,	6 ,, ...					
					Ditto 7' ,,	6 ,, ...					
					Ditto 8' ,,	6 ,, ...					
					One end flanged, and the other socket 6" bore, ⅜" thick, and 9' long.	12 ,, ...	7 17 6	,,	...	...	Estimated weight 1—10—0—0.
					Connections for bends, double flanged, 6" bore, ¼" thick, 3" long.	12 ,, ...					
					Ditto ditto 2' 8" long	12 ,, ...	10 12 6	,,	...	...	Estimated weight 1—14—1—0.
					T pieces double flanged, 6" bore, ⅜" thick, 2'-6" long.	12 ,, ...					
594	6th Sept. 1884 ...	R. & S. V. ...	34 of 1884 ...	Presses, dating; indenting.	Complete with type, to cut date	10 No. ...	2 4 6	Each			
595	5th Sept. 1884 ...	N. C. ...	36 of 1884 ...		With type complete, and with a ribbon to print date. The presses are to be made to indent and ink in the dates at one operation. One pint of ink to be supplied with each machine.	20 ,, ...	2 5 0	,,			
621	30th Oct. 1884...	Tirhoot & C. K.	56 & 68 of 1884		With type boxes and types to cut date ...	12 ,, ...	2 4 6	,,	...	...	Packing and delivery f. o. b. £0 19s. 6d.

From

THE DIRECTOR GENERAL OF RAILWAYS.

To

Circular No. 13 .

Dated Simla, October 23, 1885.

Received

INDIAN STATE RAILWAYS.

India Office contract rates for class F. "Station Materials and Fencing."

Govt. C. B. Press, Simla.—No. 370 D. G. R.—24-10-85—2,000.

[*For General Distribution.*]

Circular No. 13 .

FROM

THE DIRECTOR GENERAL OF RAILWAYS.

To

THE MANAGERS, PUNJAB NORTHERN, INDUS VALLEY, AND EASTERN BENGAL STATE RAILWAYS.

THE ENGINEERS-IN-CHIEF, JHANSI-MANICKPUR, BELLARY-KISTNA, NAGPUR-BENGAL, BILASPUR-ETAWAH, SIND-PISHIN, NORTHERN SECTION, BOLAN, AND SIND-SAGAR STATE RAILWAYS.

THE ENGINEER-IN-CHIEF, FEROZEPORE BRIDGE WORKS.

THE PORT STOREKEEPERS, STATE RAILWAY DEPARTMENT, CALCUTTA, BOMBAY, AND KARACHI.

Simla, October 23, 1885.

SIR,

I have the honor to forward herewith, for information and guidance, a printed statement showing the actual English rates for F. class State Railway stores "Station Materials and Fencing" contracted for by the India Office from January to December 1884.

2. The percentage that should be allowed for the entire sea freight has been noted at the end of the statement, and the rate for landing charges per ton at the ports has also been given. Four-fifths ($\frac{4}{5}$ths) of the sea freight should be entered in Indents as payable in England.

I have the honor to be,

SIR,

Your most obedient Servant,

T. F. DOWDEN, Colonel, R.E.,

for Director General.

Document accompanying.

Statement of India Office contract rates for class F. "Station materials and Fencing."

The Secretaries to the Governments of Bengal, North-Western Provinces and Oudh, and the Punjab, Public Works Department.
The Secretaries to the Chief Commissioners of the Central Provinces, British Burma, and Assam, 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 Biluchistan, Public Works Department.
The Superintendent of Port Blair, and Chief Commissioner, Andaman and Nicobar Islands.
The Consulting Engineers for Railways, Madras and Bombay.
The Consulting Engineers to the Government of India for Guaranteed Railways, Calcutta, Lahore, and Lucknow.
The Agents and Chief Engineers, Bengal and North-Western, Bengal Central, and His Highness the Nizam's Guaranteed Railway Companies, Limited.
The Agent and General Manager, Assam Railways and Trading Company, Limited.

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

T. F. DOWDEN, Colonel, R.E.,

for Director General.

594	6th Sept. 1884 ...	R. & S. V. ...	34 of 1884 ...	Presses, dating; type, in boxes for—	Spare	10 sets ...	0 17 6	Set				
578	25th June 1884	Sind-Pishin ...	23 of 1884 ...	Pumps. Hand power. Double cylinder.	Complete. The frames are to be of wrought-iron bars, L Section, each to have 2 gun-metal cylinders, 3½ inches diameter, and a stroke of 8 inches with duplicate parts for each; same as supplied on contract F. 303.	10 No. ...	33 0 0	Each	468 / 1—4	541 / 1—4		
551	1st Feb. 1884 ...	I. V. ...	75 of 1883 ...	Pumps. Steam, with boiler.	Complete, horizontal, direct, double acting, on cast-iron stand, suitable for raising water from a well 20 ft. deep, and delivering it into a tank 40 ft. above the pump level and to pump 7,330 gallons per hour. Diameter of steam cylinder ... 7″ Length of stroke ... 12″ Diameter of boiler ... 3′ 6″ Height of boiler ... 7′ 6″ Number of Galloway tubes in boiler, 2. Diameter of pump, 6″. Stroke of pump (double acting), 12 inches, with 20 ft. of suction and 99 ft. of delivery pipes, 4 inches in diameter, in 9 ft. lengths; also two short lengths, one of 4 ft., one of 6 ft. and six quarter bends.	1 ...	150 0 0	Each	...	546 / 1—4	For details, see specification.	
					One Pent roofing over erecting shop complete, 42 feet clear span.						*As per invoice of S.S. "California," dated 17th May 1885.*	
616	13th Dec. 1884	C. A. ...	21 of 1884 ...	Roofing, iron; complete spans, and spare parts of—	W. I. Work in trusses	No. 29=23-17-0-23	10 10 0	Ton	532 to 536	...	One roof complete.	
					Angle iron in parlins, &c.	7-15-2-8				...	T. c. qr. lb.	£ s. d.
					Rivet heads	1-11-2-14				...	33 11 0 5 @ 10.10 per ton ...	352 6 0
					Wind ties	0-4-1-12				...	Full freight on above ...	82 17 9
					Washers, nuts and bolts	0-14-2-6				...	Total cost ...	435 3 9
						34-3-1-7						
565	10th March 1884	N. D. M. ...	98 of 1883 ...	Roofing, iron; complete spans, and spare parts of—	*Roofing for Boiler Shed, 40 ft. span.* Wrought-iron work in 20 trusses, with ventilators, wind-ties, &c.	23—5—3—23	12 0 0	Ton	510	530	For details, see specification.	
					Bolts and washers, &c. ...	0—9—2—27	21 0 0	„				
						23—15—2—22						
566	10th March 1884	Ditto ...	98 of 1883 ...		Galvanized wrought-iron, corrugated sheets, straight.	520 No. = 10—0—2—8 ...	15 0 0	Ton				
					Ditto ditto, curved	*195 No. = 2—7—1—14 ...	15 10 0	„			* 65 sheets 8′ long. 130 „ 1′ 8″ long.	
					Wind-bars, 22′×2″×¾″	84 No. =2 2—0—0 ...	14 0 0	„				
					Hook-bolts, 6″ long	670 No. =0—3—3—22...	36 0 0	„				
					Rivets and burrs	15,000 No. =0—4—0—0 ...	28 0 0	„				
						14—17—3—16						

Contract. No. F.	Contract. Date.	For what Railway indented.	No. of Indent.	Articles.	Details.	Quantity contracted for.	Rate free on board in England. Amount.	Rate free on board in England. Unit.	No. of India Office drawing (if any). Original F.	No. of India Office drawing (if any). Completion F.	Remarks.
					Roofing for machine and carriage shop, smithy, store, paint-shop and brass shop, 28′ span.		£ s. d.				
565	10th March 1884	N. D. M. ...	98 of 1883 ...	Roofing iron; complete spans and spare parts of—	W. I. Work in trusses, with ventilators, wind-ties, &c.	77—14—2—8	12 0 0	Ton	509	529	For details, see specification.
					W. I. Columns	20 No. =12—1—1—20	12 10 0	„			This includes saw roof trusses and resting plates as follows:—
					W. I. Box girders	24 No. =44—5—0—0	10 10 0	„			48 ventilated roof trusses =15—12—0—0
					Bolts and washers ...	2—1—2—5	21 0 0	„	...	...	80 saw roof trusses =28—0—0—0
						136—2—2—6					96 double resting plates =1—17—2—24
566	10th March 1884	Ditto ...	Ditto ...		Galvanized W. I.* corrugated sheets, curved.	2435 No. = 47—2—2—17	15 10 0	„			64 single resting plates =0—12—2—8
					Galvanized W. I. wind-bars, 21′ long ...	290 No. = 6—19—2—20	14 0 0	„			* 230 sheets 2′—3″ long. 270 „ 1′—8″ „ 135 „ 8′—0″ „ 1,800 „ 7′—0″ „
					Do. do. Hook-bolts, 6″ „ ...	2250 No. = 0—13—1—15	36 0 0	„			
					Rivets and burrs	57000 No. = 0—15—1—0	28 0 0	„			
						55—10—3—24					
616	13th Dec. 1884	C. A. ...	21 of 1884 ...		*Saw roofing, 40 ft. span.* W. I. Work in saw roofing in Eaves' trusses.	76 No. =58—9—0—20	10 10 0	Ton	532 to 536	...	For details, see specification.
					In Valley trusses	38 No. =28—10—2—20					
					Angle iron, rivets, bolts, washers, &c. ...	43—11—0—16 ...					
						130—11—0—0					
					Bearing girders and columns for 40′ trusses. In girders of 22 ft. long, ...	33 No. =28—3—3—22	10 10 0	„	Do		
					Do. of 23′ 6″ long, ...	3 No. = 2—17—3—0 ...					
					In columns	39 No = 49—9—2—14 ...					
					T iron brackets, rivets, bolts, and washers.	4—2—0—0 ...					
						84—13—1—8					
565 Extension	21st April 1884	N. D. M. ...	98 of 1883 ...		*Saw roofing, 28′ span.* Trusses, resting plates, angle irons, and wind-ties, &c.	2 No. =1—4—1—8 ...	12 0 0	Ton			Additional ungalvanized work for saw roofing, and machine and carriage shops, see above.
					Columns	4 No. =2—8—1—4 ...	12 10 0	„			See drawing relating to original contract.
566 Extension	Ditto ...	Ditto ...	Ditto ...		*Saw roofing, 28′ span.* Galvanized W. I. corrugated sheets for ridging, 2′ 3″ long, curved.	6 No. = 0—0—3—12 ...	15 10 0	Ton			See drawings relating to original contract.
					Do. do. straight, 7′ long ...	30 No. =0—13—2—2	15 0 0	„			
					Wind-bars, 14′ × 2″ × ⅜″ ...	6 No. = 0—1—3—14 ...	14 0 0	„			
					Hook-bolts	30 No. =0—0—0—20 ...	36 0 0	„			
					Rivets and burrs	700 No. = 0—0—0—21 ...	23 0 0	„			
						0—16—2—13					
616	13th Dec. 1884	C. A. ...	21 of 1884 ...	Roofing iron; complete spans, and spare parts of—	*Saw roofing, 28′ span.* W. I. Work.						
					In Eaves' trusses	42 No. =14—11—1—14	10 10 0	Ton	532 to 536		*As per Invoice of S. S. "Victoria," dated 10th June 1885.* One roof complete for 28′ span— T. C. qr. lb. 80 17 2 0
					In Valley trusses	30 No. =9—19—3—8 ...					£ s. d.
					T iron bearings, angle iron, rivets, washers, &c.	20—13—0—6					At 10·10 per ton ... 849 3 9
						45—4—1—0					Full freight on above 65 6 10
					Bearing girders columns, &c., for 28′ trusses—						Total cost ... 914 10 7
					W. I. Work in bearing girders, 28 ft. ...	10 No. =10—10—3—6	10 10 0	„	Ditto.		
					Do. in do. 29′ 6″ ...	2 No. =2—6—0—20 ...					
					In counter-shaft do. 28′ ...	4 No. =4—4—2—16 ...					
					In do. do. 29′ 6″ ...	1 No. =1—2—2—13 ...					
					In columns	13 No. =11—8—2—18					
					T iron bearings, angle iron, rivets, washers, &c.	2—2—2—25 ...					
						31—15—2—14					
565	10th March 1885	N. D. M. ...	98 of 1883 ...		*Roofing over Engine-shed, 30 ft. span.* W. I. Work in trusses, &c. ...	11—9—0—24 ...	12 0 0	Ton	508	528	
					Bolts and washers ...	0—4—3—15 ...	21 0 0	„			
						11—14—0—11					* Details not given in the contract.
566	10th March 1885	Ditto ...	98 of 1883 ...		Galvanized W. I. corrugated sheets ...	9—14—1—9 ...	*Curved 15 10 0 Straight 15 0 0	„			
					Wind bars, 22′ × 2″ × ⅜″ ...	70 No. =1—15—0—0 ...	14 0 0	„	508		
					Hook-bolts, 6 inches long	560 No. =0—3—1—5 ...	36 0 0	„	„		
					Rivets and burrs	11,800 =0—3—1—0 ...	28 9 0	„	„		
						11—15—3—14					

Contract. No. F.	Contract. Date.	For what Railway indented.	No. of Indent.	Articles.	Details.	Quantity contracted for.	Rate free on Board in England. Amount.	Rate free on Board in England. Unit.	No. of India Office drawing (if any). Original F.	No. of India Office drawing (if any). Completion F.	Remarks.
							£ s. d.				
567	24th April 1884	N. B. ...	78 of 1883 ...	Roofing iron; complete spans, and spare parts of—	*Continental girders or wrought-iron rolled beams for roofing.*						
	...	P. N. ...	99 of 1883 ...		18″ × 7″ × ⅜″, 28′ long, 76 lbs. per foot	15 No. =14—0—2—24	9 0 0	Ton			Providence Brand. Hautmont.
					6″ × 5″ × ⅜″ × ½″, 15′ 10″ long, 29 lbs. per ft.	600 =122—16—1—0	6 15 0	,,			Ditto Marchienne
					15′ 4″ long, 29 lbs. per ft.	180 =35—15—0—20	6 15 0	,,			
587	30th July 1884	N. D. M. ...	39 of 1883 ...		Channel iron girders, 28′ long × 18″ deep.	5 No. = 4—3—1—25 ...	9 0 0 or 38 5 0	Ton Total			
565	10th March 1884	N. D. M. ...	98 of 1883 ...		*Quantities in bed and rails for Hydraulic Traveller.*						
					Rolled beams, plates, &c.	8—5—3—0 ...	13 0 0	Ton	511	531	
					Washers C. I.	0—6—2—14	12 0 0	,,			
					Bolts	0—14—0—0 ...	21 0 0	,,	,,		
					Steel rails, 280′ × 62 lbs. per yard ...	2—11—2—0 ...	9 0 0	,,	,,		
						11—17—3—14					
565	10th March 1884	Ditto ...	98 of 1883 ...		*Verandah roofing.*						
566	10th March 1884	Ditto ...	98 of 1883 ...		Rolled beams, 20′ × 6″ × 3″ × ¾″ ...	27 No. = 3—8—2—0 ...	12 0 0	Ton			
					Galvanized W. I. corrugated sheets, 6′ long, straight.	550 No. =10—12—0—0	15 0 0	,,			
					Wind-bars, 22′ × 2″ × ¾″ ...	64 No. = 1—12—0—0 ...	14 0 0	,,			
					Hook-bolts, 3″ long	500 No. =0—2—0—0 ...	36 0 0	,,			
					Rivets and burrs	12,900 No. =0—3—2—0...	28 0 0	,,			
						12—9—2—0...					
557	27th Feb. 1884	J. M. S. Ry. ...	86 of 1883 ...	Safes, cash, iron ...	37¼″ × 27″ × 28″ outside, and 30″ × 20″ × 20″ inside.	18 No. ...	15 7 6	Each			This is classified as G.—5.—8. in the nomenclature and classification of stores.
559	7th March 1884	I. V. ...	104 of 1883 ...	Signals, Semaphore, fittings for— Station signals.	Complete, exclusive of post and lamp ...	10 No. ...	4 18 0	Each	404 1—6 & 404 9—10	524 1—11	
562	14th March 1884	J. M. ...	86 of 1883 ...		Exclusive of post and lamp ...	19 ,, ...	4 18 0	,,	404 1—6 & 404 9—10	538 1—11	
577	25th June 1884	C. P. ...	21 of 1884 ...		Complete, exclusive of post ...	24 ,, ...	6 1 0	,,			
586	25th July 1884	B. P. ...	51 of 1884 ...		Ditto, ditto, ditto ...	4 ,, ...	6 1 0	,,	404 1—6 & 404 9—10	542 1—11	
591	4th Sept. 1884	R. & S. V. ...	34 of 1884 ...		Ditto, ditto, with lamp ...	1 ,, ...	6 1 0	,,			
Ditto	Ditto	N. C. ...	36 of 1884 ...		Ditto, ditto, without lamp ...	3 ,, ...	4 18 0	...			
603	11th Nov. 1884	Tirhoot ...	56 of 1884 ...		Ditto, ditto, of post ...	6 ,, ...	6 1 0	Each	64 1—6 & 404 9—10	549 1—11	
Ditto	Ditto	C. A. ...	65 of 1884 ...		Ditto, ditto ...	2 ,, ...					
Ditto	Ditto	C. K. ...	68 of 1884 ...		Ditto, ditto ...	8 ,, ...					
559	7th March 1884	I. V. ...	104 of 1883 ...	Signals, Semaphore, spare parts of— Distant signals.	Complete, exclusive of post and lamp, but including wire strand and lever stakes, crossing wheels and gas piping.	4 No. ...	17 2 0	Each	Same as above	Same as above	
562	14th March 1884	J. M. ...	86 of 1883 ...		Exclusive of posts and lamps, but including wire strand and lever, &c.	36 ,, ...	17 2 0	,,			
577	25th June 1884	S. P. ...	23 of 1884 ...		Complete, exclusive of post ...	46 ,, ...	18 3 0	,,			
586	25th July 1884	B. P. ...	51 of 1884 ...		Ditto with spare lenses and glasses...	6 ,, ...	18 3 0	,,			
591	4th Sept. 1884	N. C. ...	36 of 1884 ...		Ditto, ditto ...	2 ,, ...	18 3 0	,,			
Ditto	Ditto	Ditto ...	Ditto ,,		without lamps	2 ,, ...	17 2 0	,,			
603	11th Nov. 1884	Tirhoot ...	56 of 1884 ...		Complete, exclusive of post ...	12 ,, ...	18 3 0	,,			
Ditto	Ditto	C. A. ...	65 of 1884 ...		Ditto, ditto ...	2 ,, ...					
Ditto	Ditto	C. K. ...	68 of 1884 ...		Ditto, ditto ...	16 ,, ...					
553	1st Feb. 1884 ...	R. M. ...	85 of 1883 ...		Cast-iron pulleys, with bolts, for signals	200 No. ...	0 0 6	Each			
559	7th March 1884	I. V. ...	104 of 1883 ...		Spare glasses for spectacles, large, red...	48 ...	0 0 11	,,			
					Ditto, ditto, green	48 ...	0 1 2	,,			
					Ditto, ditto, small, green	8 ...	0 0 5	,,			
562	14th March 1884	J. M. ...	86 of 1883 ...		Spare lenses, large, 6″ ...	148 ...	0 1 11	,,			
					Ditto, small, 2″, for distant signal	72 ...	0 0 3½	,,			
					Ditto, glasses, large, red ...	148 ...	0 0 11	,,			
					Ditto, ditto, green ...	76 ...	0 1 2	,,			
					Spare glasses, small, green ...	72 ...	0 0 5	,,			
					Wicks	55 gross ...	0 1 7	Gross			

F. STATION MATERIALS AND FENCING—*contd.*

Contract. No. F.	Contract. Date.	For what Railway indented.	Number of Indent.	Articles.	Details.	Quantity contracted for.	Rate free on Board in England. Amount. £ s. d.	Rate free on Board in England. Unit.	No. of India Office drawing (if any). Original F.	No. of India Office drawing (if any). Completion F	Remarks.
571	6th May 1884 ...	R. M. ...	8 of 1884 ...	Signals, Semaphore; spare parts of—	Cast-iron pulleys, with bolts, for distant signals.	582 ...	0 0 6	Each			
575	20th June 1884	R. M. ...	16 of 1884 ...		Galvanized strand wire, for signals ...	3 cwt. ...	1 8 0	Cwt.			
Do.	Do.	Do.	Do.		Pull over levers and frames ...	5 sets ...	4 6 0	Set			
577	25th June 1884	Sind-Pishin ...	23 of 1884 ...		Spare lenses, large, 6″	188 ...	0 1 11	Each			
					Ditto, small, 2″, for distant signals	92 ...	0 0 3½	,,			
					Spare glasses for spectacles, large, red ...	188 ...	0 0 11	,,			
					Ditto, for spectacles, large, green	96 ...	0 1 2	,,			
					Ditto, for spectacles, small, green	92 ...	0 0 5	,,			
					Wicks	70 gross ...	0 1 7	Gross			
599	2nd Oct. 1884 ...	R. & S. V. ...	34 of 1884 ...		Wire strand galvanized, for signals, distant (7 wires, No. 15 gauge).	2¼ tons. ...	14 0 0	Ton			
585	16th July 1884	S. P. ...	23 of 1884 ...	Tanks, water, wrought-iron, complete.	With cast-iron connections, pipes, and bolts, nuts, washers, &c., complete, each 8′ × 8′ × 4′.	50 No. ...	18 0 0	Each	260	540	Estimated weight of each tank 1—5—0—6
568	19th March 1884	J. M. ...	86 of 1883 ...	Turntables, Engine.	36′ diameter, M. G.	3 No. ...	233 0 0	Each	329	526	*Tickets.* See under G—b—10.
612	5th Dec. 1884	Tirhoot-Kosi Extension.	56 of 1884 ...		Ditto, ditto	1 ,, ...	237 0 0	,,	329	552	
611	5th Dec 1884	C. K. & I. V. ...	68 & 72 of 1884		45′ diam., B. G.	2 ,, ...	405 0 0	,,	358	556	
560	14th March 1884	I. V. & K. ...	73 of 1883 ...	Turntables, engine, spare parts of—	Pivots for engine turntables, 45′ diameter, consisting of two steel cups and two steel pins.	2 ...	12 15 0	Total			
D. 626	8th May 1884 ...	Cherapoonji Tramway.	14 P. R. ...	Turntable, Truck ...	To take trucks 1½ tons weight, and 4 ft. wheel base No. 6.	1 No. ...	25 0 0	Each			
D. 677	19th Dec. 1884...	Companyg u n j and Theriaghat.	19 P. R. ...	Turntable, Wagon ...	Same as supplied under contract D. 626. The table is 5 ft. diameter with 25 lbs. steel rails and fixed on table 36″ gauge with steel casing.	1 No. ...	25 10 0	,,			
546	7th Jan. 1884 ...	P. N. ...	76 of 1883 ...	Valves.	Cast-iron 2″	4 No. ...	0 18 0	Each			
					Ditto, 3″	6 ,, ...	1 6 6	,,			
					Ditto, 6″	2 ,, ...	2 13 3	,,			
					Gun-metal 3″, fitted with gland and flange at each end for steam.	3 ,, ...	3 4 0	,,			
597	19th Sept. 1884	R. M. ...	16 of 1884 ...		Sluice, 6″	4 No. ...	8 16 0	Total			
572	6th Sept. 1884	R. M. ...	106 of 1883 ...	Weigh bridges.	To weigh up to 680½ maunds. The platforms are to be 25 feet long, and 4 feet 6 inches wide, fitted with steel rails of the Vignoles type, weighing 41½ lbs. per yard metre gauge. 1 maund = 82·29lbs.; 1 seer = 2·05725lbs.	3 No. ...	175 0 0	...	...	544 1—2	
592	6th Sept. 1884	R. F. ...	32 of 1884 ...		To weigh up to 680½ maunds. The platforms are to be 25 feet long, and 4 feet 6 inches wide, fitted with steel rails of the Vignoles type, weighing 41½lbs. per yard, and fixed to a gauge of 3 feet 3⅜ inches.	4 ,, ...	175 0 0	...	...	554 1—4	
610	5th Dec. 1884	C. K. ...	68 of 1884 ...		18 ton, 5′ 6″ gauge. The weigh bridges are capable of weighing up to 490 maunds. The platforms are to be 16 feet long, and 6 feet 6 inches wide, fitted with steel rails of Vignoles type, weighing 62lbs. per yard.	1 ,, ...	120 0 0	...	...	555 1—2	
552	31st Jan. 1884	P. N. & J. M. ...	76 & 86 of 1883	Weighing machines, Platform.	To weigh up to 28 maunds. The platforms are to be 32″ × 31¼″.	11 No. ...	14 11 0	Each	...	527	
615	8th Dec. 1884	C. K. ...	68 of 1884 ...		To weigh up to 28 maunds.	6 ,, ...	82 10 0	Total	...	557 1—2	
593	6th Sept. 1884	R. & S. V. ...	34 of 1884 ...		250 kilos, with steel yards, graduated for English and Burmese weights, *viz.*,—	10 ,, ...	9 0 0	Each	...	548 1—4	
					100 ticuls = 1 viss = 3·65lbs.						
					1,000 viss = 1·62946 tons.						
					The net weight of each machine is not to be less than—						
					31 viss = ... Cwt. 1 qrs. 0 lbs. 14						
					77 ,, = ... 2 1 10						
					154 ,, = ... 2 3 14						
					308 ,, = ... 4 2 0						
					616 ,, = ... 6 2 0						
					The platforms are to be 24″ × 24″.						

F. STATION MATERIALS AND FENCING—*concld.*

Contract. No. F.	Contract. Date.	For what Railway indented.	Number of Indent.	Articles.	Details.	Quantity contracted for.	Rate free on Board in England. Amount.	Rate free on Board in England. Unit.	No. of India Office drawing (if any). Original F.	No. of India Office drawing (if any). Completion F.	Remarks.
							£ s. d.				
D. 626	8th May 1884 ...	Cherapoonji Tramway.	14 P. R. ...	Weighing machines, platform.	To weigh trucks up to 2 tons (Table 4½ ft. square) No. 2.	1 No. ...	28 10 0	Each			
D. 677	19th Dec. 1884...	Companygunj and Theriaghat.	19 P. R. ...		For weighing trucks up to 2 tons gross, same as supplied under D. 626. The platform is 4′ 6″ square, fitted with steel rails 25 lbs. per yard, fixed 30″ gauge. The face of pillar is 6 ft. clear from centre to platform.	1 „ ...	28 10 0	„			
556	19th Feb. 1884	P. N. ...	99 of 1883 ...	Weights, standard ...	Cast-iron 1 oz., 2 oz., 4 oz., 8 oz., 1, 2, 4, 7, 14, 28, 56, and 112lbs. (one of each).	1 set ...	2 17 6	Set.			

To arrive at the actual cost of station materials landed at Port, the following percentages on the original value may be added for entire sea-freight. The landing and other charges at the Port may be estimated at Rs. 2 to Rs. 3 per ton.

Bombay	...	8	per cent.
Calcutta	...	5	„
Karachi	...	10	„
Madras	...	6	„
Rangoon	...	12	„

} ⅓ths freight should be entered in Indents as payable in England.

NOTE.—In all cases one per cent. on English cost plus entire sea-freight should be added to cover insurance (Public Works Department Code XIV, vii, 161, as amended by Standing Orders Nos. 62, 75 and 77 of 1884.

(Sd.) T. F. DOWDEN, Colonel, R.E.,

for Director General.

Enclosure to Director General of Railways' Circular No. 5 of 1886.

3256

RATE LIST.

CLASS E.

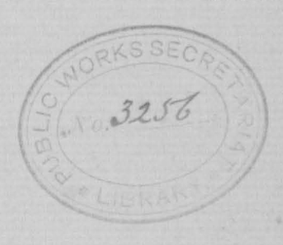
ROLLING STOCK.

FOR 1885.

From

THE DIRECTOR GENERAL
OF RAILWAYS,

To



Circular No. 5.

Dated Simla, February 13, 1886.

Received

INDIAN STATE RAILWAYS.
Rate List, Class E, "Rolling Stock," from
January to September 1885.

G. C. B. Press, Simla.—No. 748 D. G. R.—22-2-86.—1,000.

[*General Distribution.*]

Circular No. 5.

FROM

THE DIRECTOR GENERAL OF RAILWAYS,

To

THE MANAGERS, NORTH-WESTERN AND EASTERN BENGAL STATE RAILWAYS.

THE ENGINEERS-IN-CHIEF, JHANSI-MANIKPUR, BELLARY-KISTNA, NAGPUR-BENGAL, BILASPUR-ETAWAH, SIND-PISHIN, NORTHERN SECTION, BOLAN AND SIND-SAGAR STATE RAILWAYS.

THE ENGINEER-IN-CHIEF, FEROZEPORE BRIDGE WORKS.

THE PORT STOREKEEPERS, STATE RAILWAY DEPARTMENT, CALCUTTA, BOMBAY AND KURRACHEE.

Simla, February 13, 1886.

SIR,

I have the honor to forward, for information and guidance, a printed statement showing the actual English rates for E Class State Railway Stores "Rolling Stock," contracted for by the India Office from January to September 1885.

2. The percentage that should be allowed for the entire sea-freight has been added at the end of the statement, and the rate for landing charges for the different descriptions of State Railway Stores has been given in the printed statement issued under Director General of Railways' Circular No. 22, dated 16th December 1885. Four-fifths of the sea-freight should be entered in indents as payable in England.

I have the honor to be,

SIR,

Your most obedient Servant,

T. F. DOWDEN, Colonel, R.E.,

for Director General.

Document accompanying.

Rate List, Class E, "Rolling Stock," from January to September 1885.

The Secretaries to the Governments of Bengal, the North-Western Provinces and Oudh and the Punjab, Public Works Department.
The Secretaries to the Chief Commissioners of the Central Provinces, British Burma and Assam, 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 Biluchistan, Public Works Department.
The Consulting Engineers for Railways, Madras and Bombay.
The Consulting Engineers to the Government of India for Guaranteed Railways, Calcutta, Lahore and Lucknow.
The Agents and Chief Engineers, Bengal Central and Bengal and North-Western Railway Companies, Limited.
The Agent and General Manager, Assam Railways and Trading Company, Limited.

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

T. F. DOWDEN, Colonel, R.E.,

for Director General.

Enclosure to Director General of Railways' Circular No. 5 of 1886.

RATE LIST.

CLASS E.

ROLLING STOCK.

FOR 1885.

Enclosure to Director General of Railways' Circular No. 5, dated 13th February 1886.

CLASS E.—ROLLING STOCK.

INDIAN STATE RAILWAYS.

Statement showing actual rates for articles contracted for by the India Office from January to September 1885.

CLASS E.—ROLLING STOCK.

Class, head and sub-head.	Contracts. No. E.	Contracts. Date.	For what Railway.	No. of Indent.	Article.	Details.	Quantity contracted for.	Rate. F. O. B. in England.	Rate. Unit.	Remarks.
								£ s. d.		
E.—Rolling Stock. (a).—Locomotives (5' 6" Gauge).	884	26th June 1885 ...	Reserve	Government of India telegram, dated 27th April 1885.	Engines, locomotive.	With tenders, Neilson and Company's, Class L ...	No. 50	2,175 0 0	Each	Cost of each engine £1,790 and of each tender £385.
						Duplicate parts for ditto ...	Sets 2	1,507 14 0	Set	
						The general dimensions and capacity of the engines are as follows:—				Drawings E 1464 to 1467.
						Diameter of cylinder, 18 inches.				
						Length of stroke, 26 inches.				
						Diameter of coupled wheels, 4 feet 3 inches.				
						Ditto of bogie wheels, 2 feet 10 inches.				
						Total wheel base, 20 feet 10 inches.				
						Working steam pressure per square inch, 160 lbs.				
						Heating surface, external tubes, 1,119 square feet.				
						Heating surface, fire-box, 107 square feet.				
						Grate surface, 22 square feet.				
						The general dimensions and capacity of the tenders are as follows:—				
						Number of wheels, 6.				

Statement showing actual rates for articles contracted for by the India Office from January to September 1885—contd.

Class, head and sub-head.	Contracts. No.	Contracts. Date.	For what Railway.	No. of Indent.	Article.	Details.	Quantity contracted for.	Rate. F. O. B. in England.	Rate. Unit.	Remarks.
	E.							£. s. d.		
E.—Rolling Stock. (a).—Locomotives (5′ 6″ Gauge).	884	26th June 1885 ...	Reserve	Government of India telegram, dated 27th April 1885.	Engines, locomotive—*contd.*	Wheel base 10, feet.				
						Diameter of wheels, 3 feet 8 inches.				
						Capacity of tank, 2,500 gallons.				
	832	20th January 1885 ...	Indus Valley State ...	42 of '84	Engines, locomotive, spare parts of—	Axle-boxes for Dübs and Company's L class engines	No. 120	460 0 0	Total	
	861	13th April 1885 ...	Indus Valley State ...	60 of '84		Ferrules, steel, for brass boiler tubes for H, B H and L Class engines.	No. 15000	444 7 6	Total	
	856	17th March 1885 ...	Indus Valley State ...	60 of '84		Glasses, gauge, plain, 30″ × ⅝″ diameter ...	No. 24	0 10 0	Dozen	
	914	11th September 1885	Wardha Coal State ...	15 of '85		Plates, tube, copper, for Sharp Stewart and Company's J Class engines.	No. 3	28 10 0	Each	Drawing E 433 No. 5.
	918	17th September 1885	Wardha Coal State ...	15 of '85		Plates, tube, copper, for Kitson's engines ...	„ 3	81 0 0	Total	Estimated weight cwt. qr. lbs. 18 2 4
	848	2nd March 1885 ...	Indus Valley State ...	70 of '84		Springs, buffer, equal section, steel springs, conical 16″ long, section of steel C, action 7″, diameter of hole 1¼″.	No. 400	200 0 0	Total	
						Springs, buffer, recoil equal section, steel springs 1¾″ long, section of steel C, action ¾″, diameter of hole 1¼″.	„ 400	40 0 0	„	

Statement showing actual rates for articles contracted for by the India Office from January to September 1885—contd.

Class, head and sub-head.	Contracts. No.	Contracts. Date.	For what Railway.	No. of Indent.	Article.	Details.	Quantity contracted for.	Rate. F. O. B. in England.	Rate. Unit.	Remarks.
	E.							£ s. d.		
E.—Rolling Stock. (a).—Locomotives (5′ 6″ Gauge).	848	2nd March 1885 ...	Indus Valley State ...	70 of '84	Engines, locomotive, spare parts of—*contd.*	Springs, draw, unequal section, 4½″ long, section of steel C, action 1″, diameter of hole 2⅝″.	No. 200	85 0 0	Total	
						Springs, draw, unequal section, steel springs 4″ long, section of steel C, action 1″, diameter of hole 1¼″.	„ 400	76 13 4	„	
	853	12th March 1885 ...	Indus Valley State ...	93 of '84		Tubes, boiler, brass, 10′ 3″ long, 1⅝″ outside diameter, 9 B. W. G. thick at fire-box end, and 12 B. W. G. at smoke-box end; for H Class engine; the tubes are to be 1 1/16″ outside diameter for a length of 6″ at the smoke-box end.	No. 1000	563 0 5	Total	Approximate weight of 100 tubes ... ton. cwt. qr. lbs. 1 0 3 26
	902	21st July 1885 ...	Wardha Coal State ...	16 of '85		Tubes, boiler, brass, for J Class engine, 11′ 7″ long, 2″ external diameter, 11 B. W. G. thick at fire-box end, tapering to No. 13 B. W. G.	No. 200	122 13 11	Total	
	858	31st March 1885 ...	Wardha Coal State ...	83 of '84		Tyres, steel, 3′ 4⅜″ inside diameter to section A ...	No. 4	3 12 0	Each	
						Ditto, ditto to section B ...	„ 2	3 4 9	„	
	832	20th January 1885 ...	Indus Valley State ...	42 of '84		Wheels and axles for Dübs and Company's L Class engines.	Pairs 60	1,870 0 0	Total	

INDIAN STATE RAILWAYS.

Statement showing actual rates for articles contracted for by the India Office from January to September 1885—contd.

CLASS E.—ROLLING STOCK.

Class, head and sub-head.	Contracts. No. E.	Contracts. Date.	For what Railway.	No. of Indent.	Article.	Details.	Quantity contracted for.	Rate. F. O. B. in England.	Rate. Unit.	Remarks.
E.—Rolling Stock. (a).—Locomotives (Metre Gauge).	842	2nd February 1885 ...	Rangoon and Sittang Valley State.	34 of '84	Engines, locomotive, spare parts of.			£ s. d.		
						Axles, driving, for E Class engines	No. 2	3 1 0	Each	Drawing E 482 No. 50.
						Ditto, leading, ditto	„ 2	3 1 0	„	
						Ditto, trailing, ditto	„ 6	2 2 8	„	
	842	2nd February 1885 ...	Rangoon and Sittang Valley State.	34 of '84		Axles, driving, for F Class engines	No. 1	3 15 1	Each	Drawings E 1272 Nos. 42 and 113.
						Ditto, leading, ditto	„ 1	3 17 0	„	
						Ditto, tender, ditto	„ 6	2 13 6	„	
						Ditto, trailing, ditto	„ 1	3 13 6	„	
	842	2nd February 1885 ...	Rangoon and Sittang Valley State.	34 of '84		Axles, driving, for A Class engines	No. 1	2 14 4	Each	Drawing E 760 No. 23.
						Ditto, leading, ditto	„ 1	2 12 9	„	
						Ditto, trailing, ditto	„ 1	2 0 0	„	
	842	2nd February 1885 ...	Burma State... ...	77 of '84		Axles, driving, for E Class engines	No. 12	3 6 10	Each	Ferros. 1365, 1366, and 1367.
						Ditto, tender, ditto	„ 12	2 19 7	„	
						Ditto, trailing, ditto	„ 12	2 8 0	„	
	842	2nd February 1885 ...	Burma State... ...	77 of '84		Axles, driving, for F Class engines	No. 4	4 2 11	Each	
						Ditto, tender, ditto	„ 12	2 19 7	„	
						Ditto, trailing, ditto	„ 4	4 0 10	„	
						All the axles are to be made of the best Yorkshire iron. The axles for indent 34 are to be sent out rough turned, allowance being made for finishing in India. The axles for indent 77 are to be sent out finished, except on the crank and wheel seatings, which are to be rough turned as shown on the drawings.				

INDIAN STATE RAILWAYS.

CLASS E.—ROLLING STOCK.

Statement showing actual rates for articles contracted for by the India Office from January to September 1885—contd.

Class, head and sub-head.	Contracts. No. E.	Contracts. Date.	For what Railway.	No. of Indent.	Article.	Details.	Quantity contracted for.	Rate. F. O. B. in England.	Rate. Unit.	Remarks.
E.—Rolling Stock. (a).—Locomotives (Metre Gauge).	903	22nd July 1885 ...	His Highness the Gaekwar's (2′ 6″ gauge).	10 of '85	Engines, locomotive, spare parts of—*contd.*			£. s. d.		
					Boilers, Materials for—	These boilers are for old engines Nos. 979, 980 and 981, made by Messrs. Nielson and Co.				
						Copper.				
						Fire-box crown and side in one plate 8′ 1″ × 2′ 6″ × $\frac{9}{16}$″	No. 3	37 5 0	Total	
						Fire-box tube plates (flanged)	„ 3	27 12 0	„	
						Ditto back ditto	„ 3	23 17 0	„	Drawing No. 1494.
						Bars for stays (rolled) $\frac{7}{8}$″ diameter	Feet 150	12 17 0	„	
						Fire-box rivets marked D on drawing 1$\frac{3}{4}$″ long × $\frac{5}{8}$″ diameter.	No. 400	5 1 0	„	
						Iron plates, &c. Lowmoor.				
						Fire-box shell, top and sides in one plate, dimensions 9′ 6″ × 2′ 6$\frac{1}{2}$″ × $\frac{5}{16}$″.	No. 3	19 10 0	Total	
						Fire-box shell, front (flanged)	„ 3	13 17 0	„	
						Ditto back ditto	„ 3	16 13 0	„	
						Ditto inside strengthening plate 2′ 7″ × 1′ 2″ × $\frac{9}{16}$″.	„ 3	4 6 0	„	
						Barrel plates 3′ 6$\frac{1}{2}$″ × 6′ 10″ × $\frac{5}{16}$″	„ 6	26 10 0	„	
						Butt joint strips 6$\frac{1}{2}$″ × 3′ 6″ × $\frac{5}{16}$″	„ 1	0 10 0	„	
						Ditto 6$\frac{1}{2}$″ × 3′ 6″ × $\frac{1}{4}$″	„ 1	0 10 0	„	

INDIAN STATE RAILWAYS.

Statement showing actual rates for articles contracted for by the India Office from January to September 1885—contd.

Class, head and sub-head.	Contracts. No.	Contracts. Date.	For what Railway.	No. of Indent.	Article.	Details.	Quantity contracted for.	Rate. F. O. B. in England.	Rate. Unit.	Remarks.
	E.							£ s. d.		
E.—Rolling Stock. (a).—Locomotives (Metre Gauge).	903	22nd July 1885 ...	His Highness the Gaekwar's (2′ 6″ gauge).	10 of '85	Engines, locomotive, spare parts of—*contd.*	Boilers, Materials for—*contd.* Dome seating inside strengthening plate ...	No. 3	8 2 0	Total	
						Front tube plate, $\frac{5}{16}$″ thick	„ 3	22 15 0	„	
						Other iron.				
						Smoke box, top and sides (2 plates) 3′ 6″ × 1′ 6″ × $\frac{1}{4}$″.	„ 3	3 2 0	„	
						Smoke box, front plate, 3′ 2″ × 3′ 0″ × $\frac{1}{4}$″ ...	„ 3	2 10 0	„	
						Lowmoor iron.				
						Angle iron ring, 2′ 1$\frac{3}{8}$″ diameter × 3$\frac{1}{2}$″ × 2$\frac{1}{2}$″ × $\frac{5}{8}$″ ($\frac{1}{2}$″ thickness is allowed here for boring-ring to be faced).	„ 3	11 2 0	„	
						Angle iron, 1$\frac{3}{4}$″ × 1$\frac{3}{4}$″ × $\frac{5}{16}$″ × 8′ ...	„ 6	4 17 0	„	
						Foundation ring, 12′ × 2″ × 1$\frac{1}{2}$″	„ 3	18 4 0	„	
						Copper.				
						Steam pipe, 4′ 2″ long, 2$\frac{1}{4}$″ inside diameter, No. 8 B. W. G. thick.	„ 3	7 1 0	„	
						Howell's homogeneous metal.				
						Tubes, 7′ 4$\frac{1}{2}$″ long, 1$\frac{1}{2}$″ exterior diameter ...	„ 300	67 0 0	„	
						Steel.				
						Steel tube Ferrules	„ 300	10 2 0	„	

INDIAN STATE RAILWAYS.

CLASS E.—ROLLING STOCK.

Statement showing actual rates for articles contracted for by the India Office from January to September 1885—contd.

Class, head and sub-head.	Contracts. No.	Contracts. Date.	For what Railway.	No. of Indent.	Article.	Details.	Quantity contracted for.	Rate. F. O. B. in England.	Rate. Unit.	Remarks.
	E.							£ s. d.		
E.—Rolling Stock. (a).—Locomotives (Metre Gauge).	903	22nd July 1885 ...	His Highness the Gaekwar's (2′ 6″ gauge).	10 of '85	Engines, locomotive, spare parts of—*contd.*	Boilers, Materials for—*contd.* *Bolts, nuts, and rivets, all Lowmoor iron.*				
						Dome joint ... Hex. $\frac{5}{8}$″ 2$\frac{1}{4}$″ Bolts and Nuts: No. per set 22, Total 72; Rivets: No. per set ..., Total ...		1 18 0	Total	
						All circular seams in connection with barrel and fire-box front. Marked on drawing C. $\frac{5}{8}$″ 1$\frac{1}{2}$″ ... ... Rivets: No. per set 340, Total 1,050		5 7 0	„	
						Dome seating ... C $\frac{5}{8}$″ 2″ 48 150		1 1 0	„	
						All longitudinal butt strip joints. C $\frac{5}{8}$″ 1$\frac{7}{8}$″ 102 310		1 16 0	„	
						Front tube plate B 1$\frac{1}{16}$″ 2$\frac{1}{4}$″ 60 180		1 6 0	„	
						Foundation ring E 1$\frac{1}{16}$″ 3$\frac{1}{4}$″ 70 210		1 14 0	„	
						Smoke box ... A $\frac{3}{4}$″ 1$\frac{3}{8}$″ 140 420		1 14 0	„	
	847	25th February 1885	Rajputana-Malwa ...	69 of '84		Boilers to fit any E Class engine	No. 4	1,444 0 0	Total	
						Ditto F ditto	„ 2	814 0 0	„	
						Ditto M ditto	„ 2	838 0 0	„	
	874	25th February 1885 ...	Rajputana-Malwa ...	69 of '84		Brackets, slide bar, cast steel malleable, right hand, for F Class engines.	No. 3	3 5 0	Total	
						Brackets, slide bar, cast steel, malleable, left hand	„ 3	3 5 0	„	Ferro. 1377.
	904	29th July 1885 ...	Northern Bengal State ...	23 of '85		Brackets, slide bar, cast steel, for E Class engines, right hand.	„ 2	1 18 0	„	
						Brackets slide bar, cast steel, for E Class engines, left hand.	„ 2	1 18 0	„	Drawing E 1501.
						Brackets, slide bar, cast steel, for F Class engines, right hand.	„ 1	0 17 0	„	

INDIAN STATE RAILWAYS.

Statement showing actual rates for articles contracted for by the India Office from January to September 1885—contd.

Class, head and sub-head.	Contracts. No. E.	Contracts. Date.	For what Railway.	No. of Indent.	Article.	Details.	Quantity contracted for.	Rate. F. O. B. in England.	Rate. Unit.	Remarks.
E.—Rolling Stock. (a).—Locomotives (Metre Gauge).	904	29th July 1885 ...	Northern Bengal State ...	23 of '85	Engines, locomotive, spare parts of—*contd.*	Brackets, slide bar, cast steel, for F Class engines, left hand.	No. 1	£ s. d. 0 17 0	Total	Drawing E1802.
	897	14th July 1885 ...	Nagpur-Chhattisgarh State	36 of '84		Cocks blower	No. 12	19 1 0	Total	
						Ditto scum	„ 12	19 1 0	„	
						Ditto steam injectors, right hand	„ 12	25 2 0	„	
						Ditto ditto left hand	„ 12	25 2 0	„	
						Ditto water gauge	„ 12	12 1 0	„	
						These cocks are all for Neilson and Company's F Class engines, Nos. 2435 to 2442 and 2471 to 2476, all inclusive.				
	837	23rd Jan. 1885 ...	Nagpur-Chhattisgarh State	53 of '84		Cranks for driving wheels of Vulcan Foundry Company's F Class engines.	Sets 7	132 10 0	Total	
						Ditto ditto leading ditto ...	„ 7			
						Ditto ditto trailing ditto ...	„ 7			
	904	29th July 1885 ...	Northern Bengal State ...	23 of '85		Ferrules steel, for E and F class boiler tubes ...	No. 4,000	88 0 0	Total	Drawing E1505.
	836	19th Jan. 1885 ...	Nagpur-Chhattisgarh State	36 of '84		Gauges, pressure, steam, Bourdon's, 7″ dials, to indicate to 200 lbs. per square inch.	No. 12	1 0 0	Each	

INDIAN STATE RAILWAYS.

Statement showing actual rates for articles contracted for by the India Office from January to September 1885—contd.

Class, head and sub-head.	Contracts. No. E.	Contracts. Date.	For what Railway.	No. of Indent.	Article.	Details.	Quantity contracted for.	Rate. F. O. B. in England.	Rate. Unit.	Remarks.
E.—Rolling Stock. (a).—Locomotives (Metre gauge).	856	17th March 1885 ...	Rajputana-Malwa ...	107 of '85	Engines, locomotive, spare parts of—*contd.*	Glasses, gauge, water 10″ × $\frac{5}{8}$″ diameter ...	No. 900	£ s. d. 0 2 9½	Dozen	
						Ditto ditto 12″ × $\frac{5}{8}$″ diameter ...	„ 1,000	0 3 2½	„	
	915	15th Sept. 1885 ...	Nagpur-Chhattisgarh State	19 of '85		Glasses, gauge, $\frac{5}{8}$″ diameter by 9″ long, for Dübs and Company's O class engines Nos. 1730 to 1732 and 1785 to 1787.	„ 100	1 10 0	Total	
	897	14th July 1885 ...	Nagpur-Chhattisgarh State	36 of '84		Injectors, ram, for Neilson and Company's F Class engines, Nos. 2435 to 2442 and 2471 to 2476, all inclusive.	No. 12	29 1 0	Total	
	870	12th May 1885 ...	Tirhoot State ...	100 of '84		Injectors, steam, Gresham & Craven's No. 8, gun metal.	„ 2	22 16 0	„	Ferro. No. 1457.
	897	14th July 1885 ...	Nagpur-Chhattisgarh State	36 of '84		Lubricators, brass (steam chest)	No. 12	14 1 0	Total	
						Ditto (cylinder)	„ 12	10 11 0	„	
						These are all for Neilson and Company's F Class engines, Nos. 2435 to 2442 and 2471 to 2476, all inclusive.				
	831	20th Jan. 1885 ...	Nagpur-Chhattisgarh State	36 of '84		Pistons with rods complete for B Class engines ...	Pairs 2	76 0 0	Total	Drawing E1350.

Statement showing actual rates for articles contracted for by the India Office from January to September 1885—contd.

Class, head and sub-head.	Contracts. No.	Contracts. Date.	For what Railway.	No. of Indent.	Article.	Details.	Quantity contracted for.	Rate. F. O. B. in England.	Rate. Unit.	Remarks.
	E.							£ s. d.		
E.—Rolling Stock. (a).—Locomotives (Metre gauge).	897	14th July 1885 ...	Nagpur-Chhattisgarh State	36 of '84	Engines, locomotive, spare parts of—*contd.* Plates.	Copper, fire-box, back (flanged but not drilled) about 3½ cwt.	No. 2	20 12 0	Total	
						Copper, fire-box, side and top about 15 cwts.	„ 2	59 0 0	„	
						Copper, tube (flanged but not drilled), about 10 cwts.	„ 3	53 8 0	„	
						Iron, tube, smoke box (flanged but not drilled), about 8 cwts.	„ 2	27 5 0	„	
						These plates are all for Neilson & Co.'s F Class engines, Nos. 2435 to 2442 and 2471 to 2476, all inclusive.				
	915	15th September 1885	Nagpur-Chhattisgarh State	19 of '85		Copper, fire-box, tube, flanged but not bored, for Dübs and Company's O Class engines, Nos. 1730 to 1732, and 1785 to 1787.	„ 2	34 0 0	„	
	916	17th September 1885	Nagpur-Chhattisgarh State	19 of '85		Copper, fire-box, tube, flanged, for Neilson and Company's F Class engines.	„ 6	101 0 0	„	
	895	8th July 1885 ...	Northern Bengal State ...	2 of '85		Steel, smoke box	„ 24	22 0 0	„	Ferro. 1482.
	904	29th July 1885 ...	Northern Bengal State ...	23 of '85		Steel, ¼″ × 3′ 1″ diameter, for smoke box front	„ 12	4 0 0	„	Drawing E 1504.
						Steel, ¼″ × 3′ 1″ diameter, for smoke box doors	„ 24	8 0 0	„	

Statement showing actual rates for articles contracted for by the India Office from January to September 1885—contd.

Class, head and sub-head.	Contracts. No.	Contracts. Date.	For what Railway.	No. of Indent.	Article.	Details.	Quantity contracted for.	Rate. F. O. B. in England.	Rate. Unit.	Remarks.
	E.							£ s. d.		
E.—Rolling Stock. (a).—Locomotives (Metre gauge).	851	9th March 1885 ...	Rajputana-Malwa ...	69 of '84	Engines, Locomotive, spare parts of—*contd.*	Protectors, gauge glass	No. 12	0 1 3	Each	
	865	20th April 1885 ...	Northern Bengal State ...	110 of '84		Rings, gauge glass ⅝″ outside diameter	No. 1000	0 18 0	Thousand	
			Rajputana-Malwa ...	107 of '84		Ditto ½″ inside diameter ...	„ 5000	0 15 9	„	
						Ditto ⅝″ ditto ...	„ 3000	1 0 3	„	
	915	15th September 1885	Nagpur-Chhattisgarh State	19 of '85		Springs, 16 plates	No. 8	16 0 0	Total	
						Ditto, bogie, 16 plates	„ 8	14 0 0	„	
						Ditto, tender, 9 plates	„ 8	11 0 0	„	
						Ditto, intermediate	„ 4	10 0 0	„	
						These are all for Dübs & Company's O Class engines, Nos. 1730 to 1732 and 1785 to 1787.				
	916	17th September 1885	Nagpur-Chhattisgarh State	19 of '85		Springs, intermediate, for copper fire-box tube plates for Neilson & Company's F Class engines.	„ 6	18 5 0	„	
	901	22nd July 1885 ...	Northern Bengal State ...	23 of '85		Springs for gauge glasses, ⅝″ when expanded ...	„ 1000	0 2 9	Each	
	828	6th January 1885 ...	Nagpur-Chhattisgarh State	36 of '84		Tubes, boiler, brass, 9′ 0½″ long, 1¾″ outside diameter, 12 and 14 B. W. G. thick.	No. 500	0 8 8	Each	
	902	21st July 1885 ...	Nagpur-Chhattisgarh State	19 of '85		Tubes, boiler, brass, for F Class engines, 10′ long, 1¾″ external diameter, 12 B. W. G. thick at fire-box end, tapering to 14 B. W. G. thick.	„ 826	314 4 2	Total	

INDIAN STATE RAILWAYS.

CLASS E.—ROLLING STOCK.

Statement showing actual rates for articles contracted for by the India Office from January to September 1885—contd.

Class, head and sub-head.	Contracts. No. E.	Contracts. Date.	For what Railway.	No. of Indent.	Article.	Details.	Quantity contracted for.	Rate. F. O. B. in England.	Rate. Unit.	Remarks.
E.—Rolling Stock. (a).—Locomotives (Metre Gauge).	891	8th July 1885 ...	Cawnpore-Achnera State	11 of '85	Engines, Locomotive; spare parts of—*contd.*	Tyres, steel, for tenders, E Class engines, 1′ 8⅛ inside diameter to section.	No. 72	£. s. d. 1 12 3	Each	
						Tyres, steel, for wheels, E Class engines, 2′ 7½″ inside diameter to section.	„ 36	2 5 3	„	
	844	3rd February 1885 ...	Rajputana-Malwa ...	46 of '84		Valve gear, Joy's patent, for Neilson & Company's N Class engines.	No. 5	655 0 0	Total	
	901	22nd July 1885 ...	Northern Bengal State ...	23 of '85		Washers for engine buffers 6″ diameter, 2″ thick, with hole 2″ diameter.	No. 40	0 4 4	Each	
						Washers for ball and socket joints, 5½″ × $\frac{5}{16}$″ with 3½″ hole.	„ 80	0 0 6¾	„	
	847	25th February 1885	Rajputana-Malwa ...	69 of '84		Wheels, driving, with crank axles and steel tyres complete, for M Class engines.	Sets 2 or pairs 4.	228 0 0	Total	
						Wheels, trailing, with side crank axle and steel, tyres complete.	Sets 2 or pairs 4.	126 0 0	„	

CLASS E.—ROLLING STOCK.

INDIAN STATE RAILWAYS.

CLASS E.—ROLLING STOCK.

Statement showing actual rates for articles contracted for by the India Office from January to September 1885—contd.

Class, head and sub-head.	Contracts. No. E.	Contracts. Date.	For what Railway.	No. of Indent.	Article.	Details.	Quantity required for one vehicle.	Rate. F. O. B. in England.	Rate. Unit.	Remarks.
E.—Rolling Stock. (b).—Coaching and Goods Stock. 1.—Complete Vehicles* (5′ 6″ Gauge).	888	3rd July 1885 ...	Sind-Sagar State ...	36 of '85	Brake-van, 19′ 3″ long, with six wheels.		Cwt. qr. lbs.	£ s. d.		
						Channel, angle and plate iron in underframe ...	36 0 6	22 10 0	Ton	Total cost of each complete brake-van is £214-4-4.
						Underframe ironwork	9 3 27	45 0 0	„	
						Buffer and draw gear, exclusive of Lowmoor ironwork.	7 1 8	32 0 0	„	
						Drawbars, coupling and safety chains (Lowmoor iron).	4 0 7	54 0 0	„	
						Cast ironwork	5 0 14	20 0 0	„	Drawings E315, E462, E697, E704, E827, E884, E1144, E1458 to E1463.
						Brake gear	9 2 3	45 0 0	„	
						Body ironwork	9 3 7	24 0 0	„	
						Panel plates	5 2 5	17 0 0	„	
						Bolts, nuts, coachscrews and washers ...	4 3 12	20 0 0	„	
						Woodscrews	doz. 583	0 1 6	Gross	
						Metallic fittings	No. 61 altogether.	3 8 0	Total	
						Galvanized roof sheets	No. 11	18 0 0	Ton	These are all galvanized ironwork.
						Washer bars, 20′ 9″ × 1¼″ × ¼″	„ 2	14 0 0	„	
						Bolts, nuts, and coachscrews	„ 48	35 0 0	„	

* In all cases of complete vehicles, *see* Rate List, Class G,—"Tools and Stores" for lamps and paint.

NOTE.—For complete cost of different kinds of vehicles, *see* Director General of Railways' Circular No. 4 of 1883. All woodwork required is supplied in India.

INDIAN STATE RAILWAYS.

CLASS E.—ROLLING STOCK.

Statement showing actual rates for articles contracted for by the India Office from January to September 1885—contd.

Class, head and sub-head.	Contracts. No. E.	Contracts. Date.	For what Railway.	No. of Indent.	Article.	Details.	Quantity required for one vehicle.	Rate. F. O. B. in England.	Rate. Unit.	Remarks.
E.—Rolling Stock. (b).—Coaching and Goods Stock. 1.—Complete vehicle (5′ 6″ gauge).					Brake-van, 19′ 3″ long, with six wheels.—*concld.*			£ s. d.		
	888	3rd July 1885 ...	Sind-Sagar State ...	36 of '85		Lavatory fittings	No. 1	5 5 0	Total	
						Trimmings	...	3 7 0	„	
						Window glasses	No. 2	0 13 0	„	
						Copper panel pins	lb. 1	0 1 0	„	
	864	20th April 1885 ...	Ditto ...	Ditto		Axle boxes	No. 6	0 18 0	Each	
	867	Ditto ...	Ditto ...	Ditto		Springs, bearing	„ 6	0 19 10	„	
	863	16th April 1885 ...	Ditto ...	Ditto		Wheels and axles	Pairs 3	13 12 0	Pair	
	865	20th April 1885 ...	Ditto ...	Ditto		India-rubber Attock's blocks	...	0 2 2	Each	
	868	4th May 1885 ...	Cawnpore-Kalpi State ...	68 of '84		Springs, buffer	4	0 10 0	„	No contracts have as yet been let for these on Indent 36 of 1885.
						Ditto, draw	2	0 5 1	„	

INDIAN STATE RAILWAYS.

CLASS E.—ROLLING STOCK.

Statement showing actual rates for articles contracted for by the India Office from January to September 1885—contd.

Class, head and sub-head.	Contracts. No. E.	Contracts. Date.	For what Railway.	No. of Indent.	Article.	Details.	Quantity required for one vehicle.	Rate. F. O. B. in England.	Rate. Unit.	Remarks.
E.—Rolling Stock. (b).—Coaching and Goods Stock. 1.—Complete vehicle (Metre gauge).					Carriage, 1st class, 25′ 4½″ long, with side doors.		Cwt. qr. lbs.	£ s. d.		
	913	11th September 1885	Tirhoot State and Reserve	61 & 62 of '85.		Channel bar in underframe	14 1 18			
						Underframe ironwork	11 1 15			
						Buffer and screw coupling ironwork (exclusive of Lowmoor iron).	3 1 0			
						Lowmoor ironwork in buffer and screw coupling ...	0 2 12			
						Steel in buffer and screw coupling, exclusive of volute springs.	0 0 24			
						Body ironwork	3 3 5			
						Panel plates	10 2 0			
						Hoop iron	0 2 14			
						Cast iron	2 2 19			
						Bolts, nuts, &c.	2 0 24	193 0 0	Total	Drawings E.28 E.30, E.1203 to 1210,(*a*) E.1215, E.1216, E.1395 to 1397, E.1472, 1478, and 1503.
						Rivets	0 2 11			
						Woods, screws	533 gr. 3 doz.			(*a*) Completion Nos. 1399 to 1405.
						Volute springs	No. 4			
						India-rubber rings	No. 2			
						Roofing materials	*			
						Lavatory fittings	*			
						Metallic fittings	*			
						Trimmings	*			
						Window glasses	*			
	882	12th June 1885 ...	Ditto ...	Ditto		Wheels and axles (2′ ⅜″ diameter) ...	Pairs 2	9 16 0	Total	
	894	8th July 1885 ...	Ditto ...	Ditto		Axle boxes	No. 4	2 2 8	„	
	896	13th July 1885 ...	Ditto ...	Ditto		Springs, carriage, laminated	„ 4	4 13 4	„	
	937	8th October 1885 ...	Ditto ...	Ditto		India-rubber Attock's blocks	...	0 1 3	Each	
	937	Ditto ...	Ditto ...	Ditto		Ditto window cushions	...	0 0 2¾	„	

* For quantity required, *see* specification.

INDIAN STATE RAILWAYS.

Statement showing actual rates for articles contracted for by the India Office from January to September 1885—contd.

Class, head and sub-head.	Contracts. No. E.	Contracts. Date.	For what Railway.	No. of Indent.	Article.	Details.	Quantity required for one vehicle.	Rate. F. O. B. in England.	Rate. Unit.	Remarks.
							Cwt. qr. lbs.	£ s. d.		
E.—Rolling Stock. (b).—Coaching and Goods Stock. 1.—Complete vehicle (Metre gauge).	913	11th September 1885	Tirhoot State and Reserve	61 and 62 of '84	Carriage, 2nd class, 19′ 9″ long, with side doors.	Channel bar in underframe	10 0 25			
						Underframe ironwork	11 0 11			
						Buffer and screw coupling ironwork (exclusive of Lowmoor iron).	4 0 8			
						Body ironwork	3 0 1			
						Panel plates	4 1 3			
						Hoop iron	0 1 6			
						Bolts, nuts, &c.	1 3 27			
						Rivets	0 2 5	131 10 0	Total	Drawings E. 28, E. 30, E. 763-64, E. 1215, E. 1216, 1395-97, 1468-69, 1472, 1478-79, 1495, and 1503.
						Wood screws	391 gross			
						Volute springs	No. 4			
						India-rubber rings	No. 2			
						Roofing materials	*			
						Lavatory fittings	*			
						Metallic fittings	*			
						Trimmings	*			
						Window glasses	*			
	882	12th June 1885 ...	Ditto ...	Ditto		Wheels and axles (2′ 0¾″ diameter)	Pairs 2	9 16 0	Total	
	894	8th July 1885 ...	Ditto ...	Ditto		Axle boxes	No. 4	2 2 8	„	
	896	13th July 1885 ...	Ditto ...	Ditto		Springs, carriage, laminated	„ 4	4 13 4	„	
	937	8th October 1885 ...	Ditto ...	Ditto		India-rubber Attock's blocks	...	0 1 3	Each	
	937	Ditto ...	Ditto ...	Ditto		Ditto window cushions	...	0 0 2¾	„	

INDIAN STATE RAILWAYS.

Statement showing actual rates for articles contracted for by the India Office from January to September 1885—contd.

Class, head and sub-head.	Contracts. No. E.	Contracts. Date.	For what Railway.	No. of Indent.	Article.	Details.	Quantity required for one vehicle.	Rate. F. O. B. in England.	Rate. Unit.	Remarks.
							Cwt. qr. lbs.	£ s. d.		
E.—Rolling Stock. (b).—Coaching and Goods Stock. (1).—Complete vehicle (Metre gauge).	913	11th September 1885	Tirhoot State and Reserve	61 & 62 of '84	Carriage, 3rd class, 18′ 1″ long, with side doors.	Channel bar in underframe	10 0 25			
						Underframe ironwork	10 1 25			
						Buffer and screw coupling ironwork (exclusive of Lowmoor iron).	4 0 8			
						Body ironwork	2 2 12			
						Hoop iron	0 1 20			
						Bolts, nuts, &c.	1 3 27			
						Rivets	0 2 5	49 0 0	Total	Drawings E. 28, E. 30, E.763-64, 860-61, 1215, 1216 and 1395-97. Completion drawings E.1293-94 and 1006.
						Wood screw	29 gr. 4 doz.			
						Volute springs	No. 4			
						India-rubber rings	„ 2			
						Roofing materials	*			
						Metallic fittings	*			
						Trimmings	*			
	882	12th June 1885 ...	Ditto ...	Ditto		Wheels and axles (2′ 3″ diameter)	Pairs 2	9 16 0	Total	
	894	8th July 1885 ...	Ditto ...	Ditto		Axle-boxes	„ 4	2 2 8	„	
	896	13th July 1885 ...	Ditto ...	Ditto		Springs, carriage, laminated	„ 4	4 13 4	„	
	937	8th October 1885 ...	Ditto ...	Ditto		India-rubber Attock's blocks	...	0 1 3	Each	
	937	8th October 1885 ...	Ditto ...	Ditto		Ditto window cushions	...	0 0 2¾	„	

* For quantity required, *see* specification.

INDIAN STATE RAILWAYS.

CLASS E.—ROLLING STOCK.

Statement showing actual rates for articles contracted for by the India Office from January to September 1885—contd.

Class, head and sub-head.	Contracts. No.	Contracts. Date.	For what Railway.	No. of Indent.	Article.	Details.	Quantity required for one vehicle.	Rate. F. O. B. in England.	Rate. Unit.	Remarks.
	E.						Cwt. qr. lbs.	£ s. d.		
E.—Rolling Stock. (b).—Coaching and Goods Stock. (1).—Complete vehicle (Metre gauge).	913	11th September 1885	Tirhoot State and Reserve	61 & 62 of '84	Carriage, Post Office, 19′ long.	Channel bar in underframe	10 0 25			
						Underframe ironwork	12 1 1			
						Buffer and screw coupling, exclusive of volute springs.	4 0 8			
						Body ironwork	7 2 25			
						Panel plates	6 0 16			
						Hoop iron	0 1 24			
						Bolts, nuts, &c.	1 3 4			
						Rivets	0 2 23	106 0 0	Total	Drawings E. 28, E.30, E.1215, E.1216, E.1395-97, 1472-79, and 1503.
						Wood screws	290 gross			
						Volute springs...	No. 4			
						India-rubber rings	„ 2			
						Roofing materials	*			
						Lavatory fittings	*			
						Metallic fittings	*			
						Trimmings	*			
						Window glass	*			

CLASS E.—ROLLING STOCK.

INDIAN STATE RAILWAYS.

CLASS E.—ROLLING STOCK.

Statement showing actual rates for articles contracted for by the India Office from January to September 1885—contd.

Class, head and sub-head.	Contracts. No.	Contracts. Date.	For what Railway.	No. of Indent.	Article.	Details.	Quantity required for one vehicle.	Rate. F. O. B. in England.	Rate. Unit.	Remarks.
	E.							£ s. d.		
E.—Rolling Stock. (b).—Coaching and Goods Stock. (1).—Complete vehicle (Metre gauge).	882	12th June 1885 ...	Tirhoot State and Reserve	61 & 62 of '84	Carriage, Post Office, 19′ long —*contd.*	Wheels and axles (2′ $\frac{3}{8}$″ diameter)	Pairs 2	9 16 0	Total	
	894	8th July 1885 ...	Ditto ...	Ditto		Axle boxes	No. 4	2 2 8	„	
	896	13th July 1885 ...	Ditto ...	Ditto		Springs, carriage, laminated	„ 4	4 13 4	„	
	937	8th October 1885 ...	Ditto ...	Ditto		India-rubber Attock's blocks ...	...	0 1 3	Each	
	937	8th October 1885 ...	Ditto ...	Ditto		Ditto window cushions ...	...	0 0 2$\frac{1}{2}$	„	
							Cwt. qr. lbs.			
	913	11th September 1885	Tirhoot State and Reserve	61 & 62 of '84	Brake-van, 18′ 1″ long.	Underframe ironwork	24 3 2			
						Body ironwork	5 2 23			
						Hoop iron	0 1 20			
						Bolts, nuts, &c.	2 0 24			
						Rivets	0 2 5			
						Wood screws	22 gr. 4 doz.	53 0 0	Total	Drawings E. 28, E.30, E. 763-64,(a) 1215, 1216, 1395-97, 1472, and 1480-81.
						Volute springs	No. 4			(a) Completion Nos. E.1293-94.
						India-rubber rings	„ 2			
						Roofing materials	*			
						Metallic fittings	*			
						Trimmings	*			

* For quantity required, *see* specification.

INDIAN STATE RAILWAYS.

CLASS E.—ROLLING STOCK.

Statement showing actual rates for articles contracted for by the India Office from January to September 1885—contd.

Class, head and sub-head.	Contracts. No.	Contracts. Date.	For what Railway.	No. of Indent.	Article.	Details.	Quantity required for one vehicle.	Rate. F. O. B. in England.	Rate. Unit.	Remarks.
	E.							£ s. d.		
E.—Rolling Stock. (b).—Coaching and Goods Stock. (1).—Complete vehicle (Metre gauge).	882	12th June 1885 ...	Tirhoot State and Reserve	61 & 62 of '84	Brake-van, 18' 1" long—*concld.*	Wheels and axles (2' ⅜" diameter)	Pairs 2	9 16 0	Total	
	894	8th July 1885 ...	Ditto ...	Ditto ...		Axle boxes	No. 4	2 2 8	„	
	896	13th July 1885 ...	Ditto ...	Ditto ...		Springs, carriage, laminated	„ 4	4 13 4	„	
	937	8th October 1885 ...	Ditto ...	Ditto ...		India-rubber Attock's blocks	...	0 1 3	Each	
	913	11th September 1885	Tirhoot State and Reserve	61 & 62 of '84	Horse-box, 18' 1" long.	Underframe ironwork	Cwt. qr. lbs. 24 3 2	75 10 0	Total	Drawing Nos. E.28, E.30, E.761 to E.764, E.121, E.1395 to E.1397.
						Body ironwork	11 2 21½			Each horse-box is to accommodate four horses.
						Hoop iron	0 1 20			
						Bolts, nuts, &c.	4 3 5½			
						Rivets	0 2 5			
						Wood screws	24 gr. 6 doz.			
						Volute springs	No. 4			
						India-rubber rings	„ 2			
						Roofing materials	*			
						Metallic fittings	*			
						Trimmings	*			

INDIAN STATE RAILWAYS.

CLASS E.—ROLLING STOCK.

Statement showing actual rates for articles contracted for by the India Office from January to September 1885—contd.

Class, head and sub-head	Contracts. No.	Contracts. Date.	For what Railway.	No. of Indent.	Article.	Details.	Quantity required for one vehicle.	Rate. F. O. B. in England.	Rate. Unit.	Remarks.
	E.							£ s. d.		
E.—Rolling Stock. (b).—Coaching and Goods Stock. (1).—Complete vehicle (Metre gauge).	882	12th June 1885 ...	Tirhoot State and Reserve	61 & 62 of '84	Horse-box 18' 1" long—*concld.*	Wheels and axles (2' ⅜" diameter)	Pairs 2	9 16 0	Total	
	894	8th July 1885 ...	Ditto ...	Ditto ...		Axle boxes	No. 4	2 2 8	„	
	896	13th July 1885 ...	Ditto ...	Ditto ..		Springs, carriage, laminated	„ 4	4 13 4	„	
	906	12th August 1885 ...	Cawnpore-Achnera State...	58 of '84 ...	Wagon, bogie, goods, iron covered, 25' long.	Steel channel and T bars in underframe and bogie truck.	Cwt. qr. lbs. 18 2 22	21 7 6	Ton	Total cost of articles on contract E.906 is £103-16*s.*-10*d* in London.
						Plate and angle iron in underframe and bogie truck	18 2 12	19 17 6	„	
						Underframe and bogie truck ironwork ...	6 0 21	37 7 6	„	
						Buffer and drawgear, exclusive of Lowmoor iron and steel.	3 1 0	40 17 6	„	Drawings E.1151, E.1152, E.1157, E.1395-97, 1426-30, and 1506.
						Lowmoor iron in buffer and drawgear ...	0 2 12	69 17 6	„	
						Steel in buffer and drawgear	0 0 24	54 7 6	„	
						Cast iron in underframe and bogie truck ...	3 0 19	17 7 6	„	
						Side, end and roof sheeting and angle irons ...	21 1 14	14 2 6	„	
						Body ironwork	12 0 10	35 7 6	„	
						Bolts and nuts	0 2 10	18 12 6	„	
						Rivets	3 0 1	16 2 6	„	
						Volute springs	No. 4	0 9 2½	Each	
						India-rubber rings	„ 2	0 8 8	„	

For quantity required, *see* specification.

INDIAN STATE RAILWAYS.

Statement showing actual rates for articles contracted for by the India Office from January to September 1885—contd.

Class, head and sub-head.	Contracts. No.	Contracts. Date.	For what Railway.	No. of Indent.	Article.	Details.	Quantity required for one vehicle.	Rate. F. O. B. in England.	Rate. Unit.	Remarks.
	E.							£ s. d.		
E.—Rolling Stock. (b).—Coaching and Goods Stock. (1).—Complete vehicle (Metre gauge).	908	26th August 1885 ...	Cawnpore-Achnera State...	58 of '84 ...	Wagon, bogie, goods, iron covered, 25' long—*concld.*	Wheels and axles	Pairs 2	5 4 0	Pair	
	907	Ditto ...	Ditto ...	Ditto ...		Axle boxes	No. 4	0 12 6	Each	
	909	Ditto ...	Ditto ...	Ditto ...		Springs, wagon, bearing	„ 4	0 9 9	„	
	906	12th August 1885 ...	Cawnpore-Achnera State...	58 of '84 ...	Wagon, bogie, iron, lowsided, 25' long.	Steel channel and T bars in underframe and bogie truck.	Cwt. qr. lbs. 18 2 2	21 7 6	Ton	Total cost of articles on contract E.906 is £80-14*s.*-8*d* in London.
						Plate and angle iron in ditto ...	18 2 12	19 17 6	„	
						Underframe and bogie truck ironwork ...	5 2 8	37 7 6	„	
						Buffer and drawgear, exclusive of Lowmoor iron and steel.	3 1 0	40 17 6	„	
						Lowmoor iron in buffer and drawgear... ...	0 2 12	69 17 6	„	
						Steel in buffer and drawgear	0 0 24	54 7 6	„	Drawings E.1151, E.1152, E.1157, E.1395-97, 1426-28, and 1431-32.
						Cast ironwork in underframe and bogie truck ...	3 0 19	17 7 6	„	
						Side, end and roof sheeting and angle irons ...	5 2 17	14 2 6	„	
						Body ironwork	3 3 8	35 7 6	„	
						Bolts and nuts	0 2 21	18 12 6	„	
						Rivets	2 0 15	16 2 6	„	
						Volute springs	No. 4	0 9 2½	Each	
						India-rubber rings	„ 2	0 8 8	„	
	908	26th August 1885 ...	Cawnpore-Achnera State...	58 of '84		Wheels and axles	Pairs 2	5 4 0	Pair	
	907	Ditto ...	Ditto ...	Ditto ...		Axle boxes	No. 4	0 12 6	Each	
	909	Ditto ...	Ditto ...	Ditto ...		Springs	„ 4	0 9 9	„	

INDIAN STATE RAILWAYS.

Statement showing actual rates for articles contracted for by the India Office from January to September 1885—contd.

Class, head and sub-head.	Contracts. No.	Contracts. Date.	For what Railway.	No. of Indent.	Article.	Details.	Quantity contracted for.	Rate. F. O. B. in England.	Rate. Unit.	Remarks.
	E.							£ s. d.		
E.—Rolling Stock. (b).—Coaching and Goods Stock. (2).—Ironwork (5' 6" gauge).	864	20th April 1885 ...	Sind-Pishin State ...	79 of '84	Axle boxes.	For carriage and wagon	No. 200	0 18 0	Each	
			Wardha Coal State ...	84 of '84		For carriage and wagon, with wrought iron plate at back.	„ 850	1 0 0	„	Original drawing Nos. E.827 and 1092.
			Katni-Umaria State ...	Tel. 4-2-85		Ditto ditto ...	„ 590	0 18 0	„	Completion drawing No. E.1492.
			Sind-Sagar State ...	„ 11-3-85		Ditto ditto ...	„ 896			
	919	21st September 1885	Wardha Coal State ...	15 of '85		With bearings complete	„ 4	0 18 0	„	
	843	3rd February 1885 ...	Indus Valley State ...	70 of '84	Springs, bearing, wagon.	The wagon spring is to require a pressure of three tons to deflect it 1⅜ inches.	No. 400	1 0 8	Each	Original drawing Nos. E.315 and 491. Completion drawing No. E.491.
	867	20th April 1885 ...	Cawnpore-Kalpi State ...	68 of '84		.....	„ 160	0 19 10 or 1,711 12 4	„ Total	Original drawing No. E.315.
			Sind-Pishin State ...	79 of '84		.....	„ 120			
			Katni-Umaria State ...	Tel. 4-2-85		.....	„ 550			
			Sind-Sagar State ...	„ 11-3-85		.....	„ 896			
	867	Ditto ...	Wardha Coal State ...	84 of '84		To drawing No. E315 with the exception that the top plate is to be ⅜" thick.	„ 830	1 0 9 or 861 2 6	Each Total	
						Spare top plates ⅜" thick for above springs ...	„ 100	0 5 9 or 28 15 0	Each Total	

Statement showing actual rates for articles contracted for by the India Office from January to September 1885—contd.

Class, head and sub-head.	Contracts. No.	Contracts. Date.	For what Railway.	No. of Indent.	Article.	Details.	Quantity contracted for.	Rate. F. O. B. in England.	Rate. Unit.	Remarks.
	E.							£ s. d.		
E.—ROLLING STOCK. (6).—Coaching and Goods Stock. (2).—Ironwork (5' 6" gauge).	863	4th May 1885 ...	Cawnpore-Kalpi State and Wardha Coal State.	68 and 84 of '84.	Springs, buffer.	Steel	No. 980	0 10 0	Each	
						Recoil, steel	„ 980	0 2 8	„	Completion drawing No. E.1537.
	868	4th May 1885 ...	Cawnpore-Kalpi State and Wardha Coal State.	68 and 84 of '84.	Springs, draw.	Steel	No. 530	0 5 1	Each	
	867	20th April 1885 ...	Sind-Pishin State ...	79 of '84	pr ings, tension.	For carriages and brake-vans	No. 80	1 13 0	Each	Original drawing No. E.491.
			Katni-Umaria State ...	Tel. 4-2-85		Ditto	„ 40	1 13 0	„	
	920	21st September 1885	Wardha Coal State ...	15 of '85		For carriage	„ 4	1 12 6	„	
	878	8th June 1885 ...	Cawnpore-Kalpi State and Katni-Umaria State.	68 of '84 and 18 of '85.	Wagons, ballast 19 feet 3 inches long; iron-work for—	East Indian Railway pattern	Sets 90	63 12 0	Set	
	879	8th June 1885 ...	Sind-Sagar State ...	36 of '85		Ditto	„ 100	66 10 0	„	Completion drawings Nos. E.1416 to 1419.
	880	8th June 1885 ...	Sind-Sagar State ...	36 of '85		Ditto	„ 100	68 0 0	„	

Statement showing actual rates for articles contracted for by the India Office from January to September 1885—contd.

Class, head and sub-head.	Contracts. No.	Contracts. Date.	For what Railway.	No. of Indent.	Article.	Details.	Quantity contracted for.	Rate. F. O. B. in England.	Rate. Unit.	Remarks.
	E.							£ s. d.		
E.—ROLLING STOCK. (b).—Coaching and Goods Stock. (2).—Ironwork (5' 6" gauge).	835	20th January 1885	Indus Valley State ...	70 of '84	Wagons, goods, iron covered 18 feet long; underframe ironwork for—	....	Sets 100	4,454 2 0	Total	In London.
							Quantity required for one vehicle. Cwts. qr. lbs.			
						Channel plate, and angle iron in underframe ...	29 1 24	14 4 7	Ton	
						Underframe ironwork	6 1 22	21 11 9	„	
						Brake gear	2 0 2	25 5 0	„	
						Buffer gear	6 1 16	23 0 0	„	Drawings E.845, 1 to 6; E.704 and 884.
						Drawbars, safety chains, and coupling screws, with bolts and pins (Lowmoor).	3 1 15	34 7 7	„	
						Bolts, nuts, and washers	1 0 3	16 16 3	„	
						Rivets	0 3 13	14 6 6	„	
						Cast ironwork in underframe	0 2 5	9 2 0	„	
	831	8th June 1885 ...	Katni-Umaria State ...	18 of '85	Wagon, goods, ironcovered 18' long; iron underframe and underframe and body iron-work for—	....	Sets 80	80 0 0	Set	In Glasgow.
							Quantity required for one vehicle. Cwt. qr. lbs.			
						Channel plate and angle iron in underframe ...	29 1 24	16 2 6	Ton	
						Underframe ironwork	6 2 7	23 0 0	„	
						Buffer gear and drawgear, exclusive of Lowmoor ironwork.	6 3 4	23 15 0	„	

INDIAN STATE RAILWAYS.

Statement showing actual rates for articles contracted for by the India Office from January to September 1885—contd.

CLASS E.—ROLLING STOCK.

Class, head and sub-head.	Contracts. No.	Contracts. Date.	For what Railway.	No. of Indent.	Article.	Details.	Quantity contracted for.	Rate. F. O. B. in England.	Rate. Unit.	Remarks.
	E.							£ s. d.		
E.—ROLLING STOCK. (1).—Coaching and Goods Stock. (2).—Ironwork (5' 6" gauge).	881	8th June 1885 ... *concld.*	Katni-Umaria State ...	18 of '85	Wagon, goods, iron covered, 18' long; iron-underframe and under-frame and body ironwork for—*concld.*	Drawbars, coupling and safety chains (Lowmoor iron).	4 0 0	42 17 6	Ton	Drawings E.704, E.845 (1 to 6), E.884, and E.1416-19.
						Cast ironwork	0 2 10	18 0 0	„	
						Brake gear	2 0 2	20 7 6	„	
						Body ironwork	29 1 17	15 12 6	„	
						Bolts, nuts, coach screw and washers	1 0 3	17 5 0	„	
						Rivets	2 0 2	16 10 0	„	
						Galvanized corrugated roofsheets	4 1 5	17 5 0	„	
						Galvanized washers and rivets	0 0 19	33 12 6	„	
					Wheels and axles.	..... ,,,,,	Pairs 1353	18,400 0 0	Total	
	863	16th April 1885 ...	Cawnpore-Kalpi State ...	68 of '84		..... ,,,,,	„ 2	13 8 6	Pair	Original drawings No. E.462.
	921	21st September 1885	Wardha Coal State ...	15 of '85						

INDIAN STATE RAILWAYS.

CLASS E.—ROLLING STOCK.

Statement showing actual rates for articles contracted for by the India Office from January to September 1885—contd.

Class, head and sub-head.	Contracts. No.	Contracts. Date.	For what Railway.	No. of Indent.	Article.	Details.	Quantity contracted for.	Rate. F. O. B. in England.	Rate. Unit.	Remarks.
	E.							£ s. d.		
E.—ROLLING STOCK. (1).—Coaching and Goods Stock. (2).—Ironwork (Metre gauge).	849	4th March 1885 ...	Tirhoot State ...	94 of '84	Axle-boxes.	Complete, with gun-metal bearings, leather shields and washers	No. 60	0 11 6	Each	Original drawing No. E.28. Completion drawing E.1456.
	873	18th May 1885 ...	Bhavnagar-Gondal ...	73 of '84		Complete, with gun-metal bearings, leather shields and washers	„ 320	0 13 6	„	Original drawing No. E.1157. Completion Nos. E.1563 and 1590.
	894	8th July 1885 ...	Tirhoot State ...	61 and 62 of '84.		Complete, with gun-metal bearings, leather shields and washers	„ 310	0 10 8	„	Original drawing No. E.28. Completion No. E.1564.
	907	26th August 1885 ...	Cawnpore-Achnera State...	58 of '84		Complete for bogie vehicles	„ 588	0 12 6	„	Original drawing No. E.1157. Completion Nos. E.1563 and 1590.
	875	11th June 1885 ...	Narayangang-Dacca-Mymensingh State and Northern Bengal State...	91 and 92 of '84.	Buffers, flexible, with screw coupling.	Complete, with steel and India-rubber springs ...	Sets 246	12 0 0	Set	Original drawings Nos. E.1395 to E.1397.
			Northern Bengal State ...	81 and 82 of '83 and 14 and 90 of '84.		Ditto ditto ...	„ 250	9 0 5	„	Ditto ditto.
	876	Ditto ...	Tirhoot State ...			Spare hooks with pins complete, for ditto ...	No. 250	0 12 2	Each	
			Cawnpore-Achnera ...							
	877	Ditto ...	Cawnpore-Achnera State and Narayangang-Dacca-Mymensingh State ...	90 and 91 of '84		Complete, with steel and India-rubber springs ...	Sets 250	10 13 9	Set	Ditto ditto.
	898	14th July 1885 ...	Northern Bengal State ...	23 of '85	Buffers, ordinary.	With hooks rivetted on ...	Sets 40	1 10 0	Each	

All these prices for buffers are exclusive of royalties.

Statement showing actual rates for articles contracted for by the India Office from January to September 1885—contd.

Class, head and sub-head.	Contracts. No.	Contracts. Date.	For what Railway.	No. of Indent.	Article.	Details.	Quantity contracted for.	Rate. F. O. B. in England.	Rate. Unit.	Remarks.
	E.							£ s. d.		
E.—Rolling Stock. (1).—Coaching and Goods Stock. (2).—Ironwork (Metre gauge).	855	13th March 1885 ...	Tirhoot State ...	94 of '84	Crane, travelling, ten-ton; ironwork for—	Complete	Set 1	440 0 0	Set	Original drawings Nos. E.584, E585, and E.1052.
	892	8th July 1885 ...	Rangoon and Irrawaddy Valley State, and Rangoon and Sittang Valley State.	18 and 19 of '83.	Roofing; galvanized ironwork for—	Corrugated galvanized wrought iron sheets, 8′ 5″ long by 2′ 2″ wide when corrugated to a pitch of 3″, and weighing 1½ lb. per sq. ft. when flat and before being galvanized. The sheets are to be curved to a radius of 11′ 11″ inside.	Sheets 427	13 17 6 or 106 9 10	Ton Total	
						Galvanized W. I. washerbars 18′ 3″ long by 1½″ wide and ¼″ thick.	No. 78	11 12 6 or 9 6 2	Ton Total	
						Galvanized W. I. countersunk headed bolts with square necks 9″ long and ½″ diameter with hexagonal nuts.	„ 144	25 17 6 or 1 0 10	Ton Total	
						Galvanized W. I. snapheaded bolts with square necks 5½″ long × ½″ diameter with hexagonal nuts.	„ 90	26 17 6 or 0 9 10	Ton Total	
						Galvanized W. I. snapheaded bolts with square necks 4″ long × ½″ diameter with hexagonal nuts.	„ 595	27 17 6 or 2 12 6	Ton Total	
						Galvanized W. I. coach screws, square heads 3″ long by ⅜″ diameter.	„ 458	0 7 6 or 1 3 11	Gross Total	
						Galvanized W. I. washers 1½′×1½″ × $\frac{3}{16}$″ thick at centre with hole $\frac{3}{16}$″ diameter. These washers are to be made concave to fit fluttings of the sheets.	„ 90	37 17 6	Ton	Total cost of these 534 washers is £1 8s. 9d.
						Galvanized W. I. washers 1½″×1½″ × $\frac{3}{16}$″ thick at centre with hole $\frac{3}{16}$″ diameter. These also are to be made concave.	„ 444	37 17 6	Ton	

Statement showing actual rates for articles contracted for by the India Office from January to September 1885—contd.

Class, head and sub-head.	Contracts. No.	Contracts. Date.	For what Railway.	No. of Indent.	Article.	Details.	Quantity contracted for.	Rate. F. O. B. in England.	Rate. Unit.	Remarks.
	E.							£ s. d.		
E.—Rolling Stock. (1).—Coaching and Goods Stock. (2).—Iron work. (Metre gauge).	671	12th May 1885 ...	Bhavnagar-Gondal State...	73 of '84	Springs, bearing wagon.	With clips	No. 320	0 12 2	Each	Drawing E 1152.
	909	26th August 1885 ...	Cawnpore-Achnera State...	58 of '84		Ditto	„ 560	0 9 9	„	Ditto.
	896	13th July 1885 ...	Tirhoot State and Reserve	61 and 62 of '84.	Springs, laminated.	For carriages, with 7 plates complete ...	No. 140	1 3 4	Each	Original drawing No. E.1215. Completion No. E.1392.
						Ditto with 6 plates complete ...	„ 10	1 1 1	„	Ditto ditto.
						For wagons, with 7 plates	„ 160	0 7 6	„	Original drawing No. E.602. Completion No. E.1393.
	866	8th May 1885 ...	Tirhoot State ...	94 of '84	Springs, volute.	The springs will be made to the standard specification.	No. 30	0 10 9	Each	
	871	12th May 1885 ...	Bhavnagar-Gondal State	73 of '84		Buffing	„ 80	0 9 9	„	Drawing E.1152.
						Drawing	„ 80	0 11 0	„	
	900	21st July 1885 ...	Northern Bengal State ...	23 of '85		For buffing	„ 150	0 7 6	„	Original drawing No. E.602. Completion No. E.1393.

INDIAN STATE RAILWAYS.

CLASS E.—ROLLING STOCK.

Statement showing actual rates for articles contracted for by the India Office from January to September 1885—contd.

Class, head and sub-head.	Contracts. No. E.	Contracts. Date.	For what Railway.	No. of Indent.	Article.	Details.	Quantity required for one vehicle.	Rate. F. O. B. in England.	Rate. Unit.	Remarks.
E.—Rolling Stock. (b).—Coaching and Goods Stock. (2).—Ironwork (Metre gauge).	834	29th January 1885 ...	Bhavnagar-Gondal State	73 of '84	Wagon, bogie; underframe and body ironwork for—	25 feet long, with sides 9″ high and ends to fall	T. cwt. qr. lbs. ...	£ s. d. ...	Each	
						Channel, plate and angle iron, in underframe ...	1 8 0 1	31 10 2	Total	
						Ditto ditto bogie truck ...	0 13 1 25	16 11 9	„	
						Plate and angle iron in bodies ...	0 5 3 19	5 4 3	„	
						Buffer and drawgear (except Lowmoor ironwork) ...	0 2 1 16	3 19 5	„	
						Lowmoor ironwork, in buffer and drawgear ...	0 0 2 19	1 13 6	„	
						Underframe and body ironwork	0 2 1 24	4 11 5	„	Original drawings Nos. E.1147 to E.1150, and E.1368. Completion drawings Nos. E.1447 to 1451.
						Bogie truck ironwork	0 6 0 5	13 8 2	„	
						Cast ironwork in underframe and bogie truck ...	0 3 0 25	3 0 0	„	
						Bolts, nuts, and washers	0 0 2 6	0 11 5	„	
						Rivets	0 1 2 5	1 6 5	„	
						Total ironwork required	3 4 1 5	81 16 0	„	
								Deduct royalties @ £25 per wagon.		
	882	12th June 1885 ...	Tirhoot State ...	61 and 62 of '84 and 5 of '85	Wheels.	2′ 3½″ diameter with flanged tyres	Pairs 200	4 18 0	Pair	Original drawing No. E.30. Completion drawing No. E.1391.
						Ditto ditto plain tyres	„ 5	5 9 0	„	
	850	4th March 1885 ...	Tirhoot State ...	94 of '84	Wheels and axles.	.. ..	Pairs 24	5 12 0	Pair	Original drawing No. E.30. Completion drawing No. E.1391.
	872	18th May 1885 ...	Bhavnagar-Gondal State ...	73 of '84		... ...	„ 160	5 4 0	„	Original drawing No. E.1151. Completion drawing No. E.1259.
	899	24th July 1885 ...	Northern Bengal State ...	23 of '85		Fitted complete for carriages and wagons ...	„ 100	4 17 0	„	Original drawing No. E 30. Completion drawing No. E.1391.
	908	26th August 1885 ...	Cawnpore-Achnera State	58 of '84		For bogie wagons	„ 280	5 4 0	„	Original drawing No. E.1151. Completion drawing No. E.1259.

INDIAN STATE RAILWAYS.

CLASS E.—ROLLING STOCK.

Statement showing actual rates for articles contracted for by the India Office from January to September 1885—contd.

Class, head and sub-head.	Contracts. No. E.	Contracts. Date.	For what Railway.	No. of Indent.	Article.	Details.	Quantity contracted for.	Rate. F. O. B. in England.	Rate. Unit.	Remarks.
E.—Rolling Stock. (b).—Coaching and Goods Stock. (3).—Metallic and other fittings (5′ 6″ gauge).								£ s. d.		
	859	31st March 1885 ...	Indus Valley State ...	60 of '84	Glass panes.	Ordinary, green, 8″×6″	No. 12	0 5 3	Total	
						Ditto, ditto, 14″×12″	„ 12	1 0 4	„	
						Ditto, red, 8″×6″	„ 24	0 8 0	„	
						Ditto, ditto, 8″×8″	„ 72	1 11 6	„	
						Ditto, ditto, 10″×8″	„ 120	3 0 0	„	
						Ditto, ditto, 18″×12″	„ 12	0 18 6	„	
						Ditto, white, 12″×10″	„ 300	5 12 6	„	
						Ditto, ditto, 14″×10″	„ 60	1 8 1	„	
						Ditto, ditto, 14″×12″	„ 96	2 9 0	„	
						Ditto, ditto, 16″×12″	„ 96	2 18 0	„	
						Ditto, ditto, 16″×20″	„ 48	2 12 6	„	
						Ditto, ditto, 22¾″×19½″	„ 24	1 13 9	„	
	859	31st March 1885 ...	Indus Valley State ...	60 of '84	Glass sheets.	Plate ground, 18½″×18½″×$\frac{3}{16}$″	No. 24	4 18 9	Total	
						Ditto, white, 22″×15″×$\frac{3}{16}$″	„ 100	18 8 9	„	
						Ditto, ditto, 22″×18″×$\frac{3}{16}$″	„ 300	62 16 3	„	
	841	2nd February 1885 ...	Punjab Northern State ...	55 of '84	Plugs and chain.	For washhand basins, taper, 1¼″ diameter ...	No. 50	0 1 6	Each	
						Ditto, ditto, ¾″ ditto ...	„ 50	0 1 2	„	
	857	26th March 1885 ...	Indus Valley State ...	60 of '84	Seatings, veneer, perforated.	For seats of three 2nd class carriages	s.ft. 37	0 1 8½	s. foot	

INDIAN STATE RAILWAYS.

Statement showing actual rates for articles contracted for by the India Office from January to September 1885—contd.

Class, head and sub-head.	Contracts. No. E.	Contracts. Date.	For what Railway.	No. of Indent.	Article.	Details.	Quantity contracted for.	Rate. F. O. B. in England.	Rate. Unit.	Remarks.
E.—Rolling Stock. (b).—Coaching and Goods Stock. (3).—Metallic and other fittings (Metre gauge).	912	11th September 1885	Northern Bengal State ...	23 of '85	Basins, wash-hand.	For carriages	No. 12	£ s. d. 1 19 6	Each	
	911	15th September 1885	Northern Bengal State ...	23 of '85	Commodes ...	.....	No. 12	57 18 0	Total	
	859	31st March 1885 ...	Rajputana-Malwa ...	107 of '84	Glass sheets.	Plate, white, $12\frac{1}{2}'' \times 12\frac{1}{2}'' \times \frac{1}{10}''$	No. 100	1 7 1	Total	
						Ditto, red, $12\frac{1}{2}'' \times 12\frac{1}{2}'' \times \frac{1}{16}''$	„ 100	3 15 0	„	
	893	8th July 1885 ...	Cawnpore-Achnera State...	11 of '85		Ditto, green, $12\frac{1}{2}'' \times 12\frac{1}{2}'' \times \frac{1}{16}''$	„ 100	4 12 9	„	
						White, obscure, for carriage windows, 20″ × 16″ × 32 ounces.	„ 200	0 3 5	Each	
						Nuetral tint, 20″ × 16″ × 32 ounces	„ 60	0 5 7	„	
	869	12th May 1885 ...	Reserve ...	19 of '84	Glass, silvered	For reflectors for 12 carriages	Sheets 192	11 10 0	Total	
E.—Rolling Stock. (b).—Coaching and Goods Stock. (4).—India-rubber fittings (5′ 6″ gauge).	827	6th January 1885 ...	Indus Valley State ...	63 of '84	Blocks, Attock's.	.....	No. 136	0 1 4	Each	Drawing E.697.
	865	20th April 1885 ...	Sind Pishin State ...	79 of '84		7″ × 3″ × 1″	„ 680	0 2 2	...	
			Katni-Umaria State ...	Tel. 4-2-'85		Ditto	„ 568	or	Each	
			Sind-Sagar State ...	Tel. 11-3-'85		Ditto	„ 448	183 14 8	Total	
	827	6th January 1885 ...	Indus Valley State ...	63 of '84	Cushions, window.	.....	No. 352	0 0 2½	Each	Drawing E.697.
	865	20th April 1885 ...	Katni-Umaria State ...	Tel. 4-2-'85		.....	„ 752	0 0 2⅜	„	
			Sind-Pishin State ...	23 of '84		.....	„ 5760	0 0 2⅜	„	

INDIAN STATE RAILWAYS.

Statement showing actual rates for articles contracted for by the India Office from January to September 1885—contd.

Class, head and sub-head.	Contracts. No. E.	Contracts. Date.	For what Railway.	No. of Indent.	Article.	Details.	Quantity contracted for.	Rate. F. O. B. in England.	Rate. Unit.	Remarks.
E.—Rolling Stock. (b).—Coaching and Goods Stock. (4).—India-rubber fittings—*concld.* (5′ 6″ gauge). (Metre gauge).	865	20th April 1885 ...	Katni-Umaria State ...	Tel. 4-2-'85	Springs.	Buffer, $4\frac{3}{8}'' \times 4''$	No. 2320	£ s. d. 0 6 3	Each	
						Draw, $5\frac{3}{8}'' \times 4\frac{1}{2}''$	„ 290	0 9 11	„	
						Recoil, $3\frac{1}{4}'' \times 1\frac{3}{4}''$	„ 580	0 1 10	„	
	865	20th April 1885 ...	Rajputana-Malwa ...	107 of '84	Cushions, window.	.....	No. 3000	0 0 2⅜	Each	
	885	26th June 1885 ...	Burma State ...	77 of '84	Washers.	6″ diameter × 2″ thick	No. 48	0 5 1½	Each	
	901	22nd July 1885 ...	Northern Bengal State ...	23 of '85		For bogie carriage axle-boxes, $1\frac{1}{4}'' \times 1''$ with 1″ hole.	„ 120	0 1 5	„	
E.—Rolling Stock. (b).—Coaching and Goods Stock. (5).—Trimmings (5′ 6″ gauge).	840	27th January 1885 ...	Indus Valley State ...	63 of '84	Cloth, canvas.	Duck, 44″ wide	72 yards	0 0 9⅜	Yard	
	845	30th January 1885 ...	Indus Valley State ...	63 of '84		Painted for roofing, 10′ wide, to be in lengths of 25′ 1½″.	33½ „	10 12 2	Total	
	890	3rd July 1885 ...	Eastern Bengal State ...	20 of '85		For roofing, 10′ 6″ wide	390 „	0 7 6	Yard	
	905	24th July 1885 ...	Eastern Bengal State ...	31 of '85		Patent, flexible, 11′ 6″ wide	450 „	0 8 4	„	
	846	3rd February 1885 ...	Indus Valley State ...	63 of '84	Cloth, floor.	8′ 6″ wide, in 2 lengths—of 14′ and 15′ ...	29 yards	0 6 4½	Yard	
	889	30th June 1885 ...	Eastern Bengal State ...	20 of '85		Red and brown, 8′ 6″ wide	70 „	0 3 3	sq. yard	
	840	27th January 1885 ...	Indus Valley State ...	63 of '84	Cloth, linen.	Black, 2′ 6″ wide	152 yards	0 0 4½	Yard	
	838	27th January 1885 ...	Indus Valley State ...	63 of '84	Cord, seaming.	In 1-lb. balls	20 balls	0 0 10	Each	

INDIAN STATE RAILWAYS.

CLASS E.—ROLLING STOCK.

Statement showing actual rates for articles contracted for by the India Office from January to September 1885—concld.

Class, head and sub-head.	Contracts. No.	Contracts. Date.	For what Railway.	No. of Indent.	Article.	Details.	Quantity contracted for.	Rate. F. O. B. in England.	Rate. Unit.	Remarks.
	E.							£ s. d.		
E.—Rolling Stock. (5).—Coaching and Goods Stock. (5).—Trimmings. —*concld.* (5′ 6″ gauge).	829	23rd January 1885 ...	Indus Valley State ...	63 of '84	Hair, horse.	Curled	Cwt. 9½	0 1 ¼	lb.	
	830	16th January 1885 ...	Indus Valley State ...	63 of '84	Netting, silk.	2′ wide	12 yards	0 2 6	Yard	
	839	27th January 1885 ...	Indus Valley State ...	63 of '84	Skins, buffalo.	8′ × 7′ enamelled, maroon	No. 44	115 5 9	Total	
	852	7th March 1885 ...	Indus Valley State ...	63 of '84	Springs, spiral, coppered.	.....	No. 560	0 13 0	Gross	
	862	15th April 1885 ...	Indus Valley State ...	60 of '84		$\frac{3}{16}$″ for carriages	„ 1000	4 10 3	Total	
	838	27th January 1885 ...	Indus Valley State ...	63 of '84	Twine.	For cushion springs	16 balls.	0 1 8	Each	
Metre gauge.	886	3rd July 1885 ...	Cawnpore-Achnera State...	11 of '85	Skins, buffalo, Morocco.	Brown, for carriage cushions	No. 40	2 13 9	Each	

To arrive at the approximate cost of Rolling Stock materials landed at Port, the following percentages on the original value may be added for entire sea-freight. The landing and other charges at the Port may be estimated at Rs. 2 to Rs. 3 per ton.

Bombay	...	6·5
Calcutta	... ...	5·5
Karachi	... ...	5·0
Madras	... ...	6·0
Rangoon	...	10·0

} ⅓ths freight should be entered in Indents as payable in England.

NOTE.—In all cases one per cent. on English cost, *plus* entire sea-freight, should be added to cover insurance (Public Works Department Code XIV, vii., 161, as amended by standing orders Nos. 62, 75, and 77 of 1884).

(Sd.) T. F. DOWDEN, Colonel, R.E.,

for Director General.

Enclosure to Director General of Railways Circular No. 18 of 1885.

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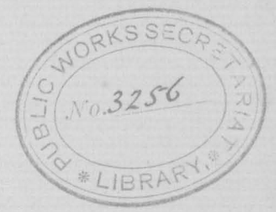
RATE LIST.

D.—PERMANENT WAY MATERIALS

FOR 1884.

From

The Director General of Railways



To

Circular No. 18.

Dated Simla, November 7, 1885.

Received

Indian State Railways.

India Office contract rates for class D "Permanent Way materials."

Govt. C. B. Press, Simla.—No. 640 D. G. R.—18-11-85.—2,000.

Enclosure to Director General of Railways Circular No. 18 of 1885.

RATE LIST.

D.—PERMANENT WAY MATERIALS

FOR 1884.

Enclosure to Director General of Railways Circular No. 18 of 1885.

RATE LIST.

D.—PERMANENT WAY MATERIALS

FOR 1884.

Enclosure to Director General of Railways' Circular No. 18 of 1885.

INDIAN STATE RAILWAYS.

D.—Permanent Way Materials. D.—Permanent Way Materials.

Statement showing actual rates for articles contracted for by the India Office from January to December 1884.

Contract. No. D.	Contract. Date.	No. of Indent.	For what Railway.	Article.	Details.	For what Rail. Iron or steel.	For what Rail. Section of rail.	For what Rail. Weight of rails in lbs. per yard.	Weight of each in lbs.	India Office drawings (if any).	Quantity contracted for.	Rates. F. O. B. in England. (Actual).	Rates. Unit.	Remarks.
												£. s. d.		
626	8th May 1884 ...	14 P. R.	Cherapunji Mountain Tramway, 2′ 6″ gauge.	Bolts, fang, for joint plates.	To be ½″ diameter and 3½″ long between head of bolt and nut (4 for each set of plates).	Steel	F. F.	18 & 25	Not given	.....	15,000 = T. cwt. qr. lb. 2 4 0 0	1 0 0	Cwt.	Specification not forthcoming.
606	12th Jan. 1884 ...	84 of '83	Rajputana-Malwa ...	Bolts, fish, with nuts and washers.	.....	Steel	F. F.	41¼	...	.....	18½ cwt.	0 14 0	Cwt.	Specification and lithograph not received from India office.
606	12th Jan. 1884 ...	85 of '83	Ditto ...		.....	,,	,,	62	...	.....	10 ,,	0 14 6	,,	Ditto.
609	3rd March 1884 ...	86 of '83	Jhansi-Manickpur ...		¾″ diameter	,,	,,	41¼	·875	Lithograph ...	154 tons	11 10 0	Ton.	Originally ordered for the Jhansi-Manikpur but diverted to other lines.
616	31st March 1884 ...	101 of '83	Northern-Bengal ...		.....	,,	,,	41¼	·875	Ditto ...	15 cwt.	11 10 0	,,	
620	26th May 1884 ...	23 of '84	Sind-Pishin, 5′ 6″ gauge.		1″ diameter	,,	D. H.	75	Not given	Ditto ...	125 tons	10 15 0	,,	Weight of each as per shipping documents 1·733 lbs.
634	11th June 1884 ...	90 of '83	Nizam's Ditto		.....	,,	F. F.	62 & 66¼	·875	Ditto ...	5½ ,,	12 5 0	,,	Same as D 609.
635	11th June 1884 ...	13 of '84	Rajputana-Malwa ...		.....	,,	,,	41¼	·875	Ditto ...	2¼ ,,	11 15 0	,,	Ditto.
645	15th July 1884 ...	26 of '84	Indus Valley ...		.....	,,	,,	62 & 66¼	·875	Ditto ...	6 ,,	12 10 0	,,	
656	17th Oct. 1884 ...	43 of '84	Bhavnagar-Gondal ...		.....	,,	,,	41¼	·875	Ditto ...	6⅜ ,,	11 15 0	,,	
		49 of '84	Nalhatti ...											

Note.—F. F. Flat footed. | D. H. Double headed. | F. O. B. Free on board.

D.—Permanent Way Materials.

Statement showing actual rates for articles contracted for by the India Office from January to December 1884—contd.

Contract. No. D.	Contract. Date.	No. of Indent.	For what Railway.	Article.	Details.	For what Rail. Iron or steel.	For what Rail. Section of rail.	For what Rail. Weight of rails in lbs. per yard.	Weight of each in lbs.	India Office drawings (if any).	Quantity contracted for.	Rates. F. O. B. in England (Actual).	Rates. Unit.	Remarks.
												£. s. d.		
661	5th Nov. 1884 ...	31 of '84	Tirhoot	Bolts, fish, with nuts and washers—*contd.*	.....	Steel	F F.	41¼	·875	.....	90½ tons	11 10 0	Ton	
		54 of '84	Bellary-Kistna and Cuddapah-Nellore.											
		57 of '84	Rewari-Ferozepore ...											
		65 of '84	Cawnpore-Achnera ...											
		67 of '84	Punjab Northern ...											
666	8th Nov. 1884 ...	55 of '84	Punjab Northern ...		.....	,,	,,	62	·875	Lithograph ...	10 ,,	12 0 0	,,	
667	8th Nov. 1884 ...	55 of '84	Punjab Northern ...		.....	,,	,,	64	1·317	Ditto ...	10 ,,	11 5 0	,,	
670	21st Nov. 1884 ...	68 of '84	Cawnpore-Kulpi ...		1″ diameter ...	,,	D. H.	75	Notgiven	.....	102 ,,	11 5 0	,,	Weight of each as per shipping documents 1·66 lbs.
677	19th Dec. 1884 ...	19 P. R.	Companygunj and Theriaghat.		.....	,,	F. F.	18	...	.....	8,200 No.	Rate not quoted.	...	See under rails.
						,,	,,	25	...	.....	17,000 ,,			
676	5th Dec. 1884 ...	23 of '84	Sind-Pishin ...	Chairs, Bridge	Each chair consisting of 1 cast-iron bed plate with fixed jaw, and	Steel	D. H.	75	49·5	Original D. 252	15,000 ,,	3 4 6	Ton	For chairs.
					1 loose jaw casting, 1 wrought-iron solid cotter, and 4 wrought-iron spikes, complete.	...	...	...	7·8	Comp. D. 285.	...	10 10 0	,,	For cotters and spikes.

D.—Permanent Way Materials.

Statement showing actual rates for articles contracted for by the India Office from January to December 1884.

Contract. No. D.	Contract. Date.	No. of Indent.	For what Railway.	Article.	Details.	Rail. Gauge.	Rail. Iron or steel.	Rail. Section.	Rail. Weight.	Rail. Angle.	Rail. Crossing.	India Office drawings (if any). Original. D.	India Office drawings (if any). Completion. D.	Quantity contracted for.	Rates. F. O. B. in England. (Actual).	Rates. Unit.	Remarks.
									lbs.						£. s. d.		
602	4th Jan. 1884 ...	84 of '83	Rajputana-Malwa ...	Crossings, steel, crucible, cast, reversible, complete.	Complete ...	Metre	Steel	F. F.	41¼	5½°	1 in 10	40	245	No. 10	7 17 6	Each.	
														„ 100	6 5 0	„	
602	4th Jan. 1884 ...	85 of '83	Ditto ...		Ditto ...	„	„	„	„	7¼°	1 in 7						
										4¾°	1 in 12			„ 3	9 8 6	„	Diverted to other Railways.
612	20th March 1884...	86 of '83	Jhansi-Manickpur ...		Ditto ...	„	„	„	„	6°	1 in 9½	40	250	„ 30	7 19 6	„	
										8½°	1 in 6¾			„ 10	6 14 6	„	
614	31st March 1884...	87 of '83	Tirhoot ...			„	„	„	„	5½°	1 in 10			„ 102	7 17 6	„	
		101 of '83	Northern Bengal ...		Ditto ...	„	„	„	„	7¾	1 in 7	40	254	„ 134	6 5 0	„	
		3 of '84	Bhavnagar-Gondal														
		4 of '84	Rajputana-Malwa ...			„	„	„	„	11°	1 in 5			„ 1	4 15 0	„	
626	8th May 1884 ...	14 P. R.	Cherapunji Mountain Tramway.		Chilled, for Sidings ...	2′ 6″	„	„	15	7¾°	1 in 7	...	...	„ 2	0 5 0	„	
					And points complete ...	„	„	„	18	...	...	...	...	Sets 2	11 0 0	Set	Rates for points and crossings have not been given separately.
625	4th June 1884 ...	13 of '84	Rajputana-Malwa ...		Complete ...	Metre	„	„	41¼	7¼°	1 in 7	40	...	No. 28	6 5 0	Each.	
643	1st July 1884 ...	23 of '84	Sind-Pishin ...		Ditto ...	5′ 6″	„	D. H.	75	5½°	1 in 10	248	271	„ 80	11 3 9	„	
						„	„	„	„	7¼°	1 in 7	249		„ 30	8 16 0	„	
653	11th Oct. 1884 ...	34 of '84	Rangoon and Sittang Valley.		Ditto ...	Metre	„	F. F.	41¼	5½°	1 in 10	...	...	„ 9	7 17 6	„	
										7¾°	1 in 7	...	...	„ 3	6 5 0	„	
653	11th Oct. 1884 ...	43 of '84	Bhavnagar-Gondal ...														

INDIAN STATE RAILWAYS.

Statement showing actual rates for articles contracted for by the India Office, from January to December 1884.—contd.

D.—Permanent Way Materials.

Contract. No. D.	Contract. Date.	No. of Indent.	For what Railway.	Article.	Details.	Rail. Gauge.	Rail. Iron or steel.	Rail. Section.	Rail. Weight.	Rail. Angle.	Rail. Crossing.	India Office drawings (if any). Original. D.	India Office drawings (if any). Completion. D.	Quantity contracted for.	Rates. F. O. B. in England (Actual).	Rates. Unit.	Remarks.
									lbs.						£. s. d.		
657	1st Nov. 1884 ...	36 of '84	Nagpur-Chhattisgarh	Crossings, steel, crucible, cast, reversible, complete—*contd.*	Complete ...	Metre	Steel	F. F.	41¼	5½°	1 in 10	...	282	No. 26	7 17 6	Each	
		54 of '84	Assam-Behar ...							7¾°	1 in 7			„ 26	6 5 0	„	
		56 of '84	Tirhoot ...							8½°	1 in 6¾			„ 25	6 14 6	„	
		65 of '84	Cawnpore-Achnera ...							5°	1 in 9½	...	281	„ 24	7 19 6	„	
		67 of '84	Punjab-Northern ...							4¾°	1 in 12			„ 10	9 8 6	„	
673	28th Nov. 1884 ...	68 of '84	Cawnpore-Kulpi ...		Ditto ...	5′ 6″	„	D. H.	75	6° 43′	1 in 8½	248 249	286	„ 45	10 10 6	„	
677	19th Dec. 1884 ...	19 P.R.	Companygunj and Theriaghat.		4 right hand, and 4 left hand switch crossings complete with corrugated steel sleeper bars; each fitted with switch box and balanced hand lever.	2′ 6″	„	F. F.	25	...	...	...	...	Sets 25	110 0 0	Total.	The angles of the crossings have not been given, neither the rates for points and crossings.
					3 right hand and 3 left hand, switch crossings, complete, suitable for animal power.	„	„	„	18	...	...	...	...	„ 18	30 9 0	„	Ditto ditto.
650	11th Sept. 1884 ...	16 of '84	Rajputana-Malwa ...	Crossings, Steel. bolts for	7″ × ⅝″ diameter ...	Metre	„	F. F.	41¼	...	...	...	...	No. 188	0 15 0	Cwt.	
				Spikes for	.....	5′ 6″	„	...	74	...	...	...	...	Cwt. 3	0 13 0	„	Specification not received.

INDIAN STATE RAILWAYS.

D.—Permanent Way Materials.

D.—Permanent Way Materials.

Statement showing actual rates for articles contracted for by the India Office from January to December 1884.

Contract. No. D.	Contract. Date.	No. of Indent.	For what Railway.	Article.	Details.	Rail with which to be used. Section.	Rail with which to be used. Weight of rails in lbs. per yard. Iron or Steel.	Rail with which to be used. Weight of rails in lbs. per yard. lbs.	For spikes or fang bolts.	Shape.	Weight of one plate.	India Office drawings (if any).	Quantity contracted for.	Rates. F. O. B. in England (Actual).	Rates. Unit.	Remarks.
											lbs.			£ s. d.		
603	12th Jan. 1884...	84 of '83	Rajputana-Malwa ...	Plates, bearing.	Wrought-iron ...	F. F.	Steel ...	62	Fang bolts...	Not known	Not given	...	2,200 No.= 3—11—0—23	10 0 0	Ton	Specification not received from the India Office.
606	12th Jan. 1884...	84 of '83	Rajputana-Malwa ...		„ „ ...	„	„ ...	41¼	Not known	„ ...	„ ...	...	24½ cwt.	0 12 0	Cwt.	Ditto.
603	12th Jan. 1884...	85 of '83	Rajputana-Malwa ...		„ „ ...	„	„ ...	...	„ ...	„ ...	„ ...	...	20 „	0 12 0	„	Ditto.
611	3rd March 1884	86 of '83	Jhansi-Manickpur ...		„ „ ...	„	„ ...	...	Spikes ...	Rectangular with 4 holes.	2·33	Lithograph ...	205 tons	8 17 6	Ton.	
636	11th June 1884	13 of '84	Rajputana-Malwa ...		„ „ ...	„	„ ...	...	„ ...	„ ...	2·33	Ditto ...	38 „	9 10 0	„	
639	21st June 1884...	14 of '84	Tirhoot ...		„ „ ...	„	„ ...	...	„ ...	„ ...	2·33	Ditto ...	51 „	9 10 0	„	
											Weight of a pair of plates.					
								lbs.			lbs.					
604	12th Jan. 1884...	84 of '83	Rajputana-Malwa ...	Plates, Fish.	Steel	F. F.	Steel ...	41¼			...	...	5—12—1—20	6 2 6	Ton	Standard type. Specification not received.
608	3rd March 1884	86 of '83	Jhansi-Manickpur ...		„	„	„ ...	41¼			9·125	Lithograph ...	401 tons	6 2 6	„	
626	8th May 1884 ...	14 P. R.	Cherapunji Tramway		„	„	„ ...	15			Not given	...	3,700 sets =4—2—2—0	1 8 9	Cwt.	One set consisting of 2 pieces at each joint of the rail.
626	8th May 1884 ...	14 P. R.	Cherapunji Tramway		„	„	„ ...	18			„	...	250 pairs =10 cwt.	0 16 0	„	Complete with bolts and nuts.

INDIAN STATE RAILWAYS.

Statement showing actual rates for articles contracted for by the India Office from January to December 1884—contd.

D.—Permanent Way Materials.

Contract. No. D.	Contract. Date.	No. of Indents.	For what Railway.	Article.	Details.	Rail with which to be used. Section.	Rail with which to be used. Weight of rails in lbs. per yard. Iron or Steel.	Rail with which to be used. Weight of rails in lbs. per yard. lbs.	For spikes or lang bolts.	Shape.	Weight of one plate.	India Office drawings (if any).	Quantity contracted for.	Rates. F. O. B. in England (Actual).	Rates. Unit.	Remarks.
											lbs.			£ s. d.		
624	26th May 1884 ...	23 of '84	Sind-Pishin ...	Plates, fish.	...	F. F.	Steel ...	75			Not given	Lithograph ...	500 tons	6 0 0	Ton.	Weight of each pair as per shipping documents 45 lbs.
629	10th June 1884	90 of '83	Nizam's ...		...	„	„ ...	66¼			33·5	Ditto ...	4620= 34—10—3—21	7 1 9	„	
633	11th June 1884	13 of '84	Rajputana-Malwa ...		...	„	„ ...	41¼			9·125	Ditto ...	13 tons	6 10 0	„	
652	7th Oct. 1884 ...	28 of '84	Rajputana-Malwa ...		...	„	„ ...	50			28	Ditto ...	16,000 prs.	1,280 0 0	Total	Weight and rate have not be given by the India Office.
654	17th Oct. 1884 ...	49 of '84	Nalhati ...		...	„	„ ...	41¼			9·125	Ditto ...	924 prs. =3—15—0—3	6 13 0	Ton.	
663	5th Nov. 1884 ...	54 & 65 of '84	Assam-Behar and Cawnpore-Achnera.		...	„	„ ...	41¼			...	...	180 tons	6 8 6	„	
665	20th Nov. 1884 ...	31 of '84	Tirhoot ...		Deep Web	„	„ ...	41¼			...	...	215 „	7 5 0	„	Weight of each pair as per shipping documents 20·52lbs.
672	27th Nov. 1884 ...	68 of '84	Cawnpore-Kalpi ...		...	D. H.	„ ...	75			Not given	...	408 tons	5 18 6	„	Weight of each pair as per shipping documents 44·68lbs.
677	19th Dec. 1884 ...	19 P. R.	Theriaghat and Companygunj.		...	F. F.	„ ...	18			...	...	4,000 No.	...	„	Lump sum has been given for 7 miles, and 1,200 yards of rails with fastenings.
677	19th Dec. 1884 ...	19 P. R.	Theriaghat and Companygunj.		...	„	„ ...	25			...	...	4,150 „	...	„	

D.—Permanent Way Materials.

Statement showing actual rates for articles contracted for by the India Office from January to December 1884.

Contract. No. D.	Contract. Date.	No. of Indent.	For what Railway.	Article.	Details.	Pattern of rail.	Steel or iron.	Weight in lbs. per yard.	Quantity contracted for.	Rate. F. O. B. in England (Actual.)	Rate. Unit.	India Office drawings (if any). D.	Remarks.
										£ s. d.			
601	1st Jan. 1884 ...	84 and 85 of '83.	Rajputana-Malwa ...	Rails.	24 ft. long	F. F.	Steel	41¼	322 tons	4 12 6	Ton.		
605	12th Jan. 1884 ...	84 of '83	Rajputana-Malwa ...		24 ft. long	„	„	62	57=12½ „	4 19 6	„	...	Standard pattern.
626	8th May 1884 ...	14 P. R.	Cherapunji Tramway		21 ft. long	„	Iron	15	170 „	6 7 6	„	263 1—2	
626	8th May 1884 ...	14 P. R.	Cherapunji Tramway		21 ft. long	„	Steel	18	13 „	6 17 6	„		
619	9th May 1884 ...	23 of '84	Sind-Pishin ...		85 per cent. 24 ft. long ...	D. H.	„	75	6,000 „	4 13 9	„	Lithograph.	
					10 „ 21 „ ...								
					5 „ 18 „ ...								
Do. Extension	26th June 1884 ...	23 of '84	Sind-Pishin		85 per cent. 24 ft. long ...	„	„	75	2,000 „	4 16 3	„	Ditto.	
					10 „ 21 „ ...								
					5 „ 18 „ ...								

INDIAN STATE RAILWAYS.

Statement showing actual rates for articles contracted for by the India Office from January to December 1884—contd.

D.—Permanent Way Materials.

Contract. No.	Contract. Date.	No. of Indent.	For what Railway.	Article.	Details.	Pattern of rail.	Steel or iron.	Weight in lbs. per yard.	Quantity contracted for.	Rate. F. O. B. in England (Actuals.)	Rate. Unit.	India Office drawings (if any). D.	Remarks
										£ s. d.			
630	9th June 1884 ...	101 of '83	Northern Bengal ...	Rails—*contd.*	85 per cent. 23′ 9½″ ... / 10 „ 21′ „ ... / 5 „ 18′ 2½″ ...	F. F.	Steel	lbs. 41¼	380 tons	5 6 0	Ton.	Lithograph	The lithograph drawing shows the rails to be 24, 21 and 18 ft. long respectively
631	9th June 1884 ...	86 of '83 8, 13 and 16 of '84.	Jhansi-Manickpur and Rajputana-Malwa.		85 per cent. 24′ ... / 10 „ 21′ ... / 5 „ 18′ ...	„	„	41¼	7,876 „	5 6 0	„	Ditto.	
632	9th June 1884 ...	90 of '83	Nizam's ...		85 per cent. 30′ long ... / 10 „ 27′ „ ... / 5 „ 24′ „ ...	„	„	66¼	630 „	4 18 9	„	Ditto	D. H. 68 lb. rails were asked for, but Vignole's rails 66¼ lbs. were sent out.
646	17th July 1884 ...	26 of '84	Indus Valley ...		1,137 tons, 30′ long ... / 145 „ 27′ „ ... / 53 „ 24′ „ ...	„	„	62	1,335 „	5 0 0	„	Ditto.	

INDIAN STATE RAILWAYS.

D.—Permanent Way Materials.

Statement showing actual rates for articles contracted for by the India Office from January to December 1884.

Contract. No.	Contract. Date.	No. of Indent.	For what Railway.	Article.	Details.	Patern of rail.	Steel or iron.	Weight in lbs. per yard.	Quantity contracted for.	Rate. F. O. B. in England (Actuals).	Rate. Unit.	India Office drawings (if any). D.	Remarks
										£ s. d.			
651	1st Oct. 1884 ...	28 of '84	Rajputana-Malwa ...	Rails—*contd.*	23′ 9½″ long	F. F.	Steel.	lbs. 50	2,770 tons	5 3 10	Ton.		
658	3rd Nov. 1884	36 and 57 of '84.	Nagpur-Chhattisgarh and Rewari-Ferozepore.		94 per cent. 23′ 9½″ ... / 4 „ 21′ ... / 2 „ 18′ 2½″ ...	„	„	41¼	611 „	5 8 6	„	Lithograph.	
659	3rd Nov. 1884 ...	31, 41, 54 & 65 of '84.	Tirhoot, Nalhati, Assam-Behar and Cawnpore-Achnera.		94 per cent. 24 ft. ... / 4 „ 21 „ ... / 2 „ 18 „ ...	„	„	41¼	3,000 tons	5 8 6	„	Ditto.	
660	3rd Nov. 1884 ...	31, 41, 54 & 65 of '84.	Tirhoot, Nalhati, Assam-Behar and Cawnpore-Achnera.		Same as 659	„	„	41¼	3,368 „	5 8 6	„	Ditto.	
671	21st Nov. 1884 ...	68 of '84	Cawnpore-Kalpi ...		94 per cent. 30 ft. ... / 4 „ 27 „ ... / 2 „ 24 „ ...	D. H.	„	75	6,364 „	4 15 6	„	Ditto.	
677	19th Dec. 1884 ...	19 P. R.	Companygunj and Theriaghat and Cherapunji Mountain Tramways.		7 miles and 1,200 yards F. F. steel rails, weighing 25 lbs. per yard, chiefly in section 21 ft. long, each with necessary fish plates and bolts for joints of rails, and seven Greig's patent corrugated and flanged steel sleepers ⌐—⌐ 6″ × 5/16″ × 3′ 9″ long, *i.e.*, having a projection of 7½ inches on each side beyond the gauge.				301 „	4,448 3 8	Total.		
677	19th Dec. 1884 ...	19 P. R.	Companygunj and Theriaghat and Cherapunji Mountain Tramways.		F. F. steel rails, weighing 18 lbs. per yard, chiefly in lengths of 18 ft., punched at each end for fishing. The rails are coated with an approved anticorrosive solution before leaving the works.				90 tons	578 5 0	„		

INDIAN STATE RAILWAYS.

D.—Permanent Way Materials.

D.—Permanent Way Materials.

Statement showing actual rates for articles contracted for by the India Office from January to December 1884.

Contract. No. D.	Contract. Date.	Number of Indent.	For what Railway.	Article.	Details. Description.	Gauge.	For what rail. Section.	For what rail. Iron or steel.	For what rail. Weight in lbs. per yard.	Weight of each sleeper with fastening.	No. of India Office drawings. D.	Quantity contracted for.	Rates. F. O. B. in England (Actual).	Unit.	Remarks.
										lbs.			£ s. d.		
621	26th May 1884 ... 20th June 1884 ...	23 of '84 ...	Sind-Pishin	Sleepers, iron, cast.	Denham Olphert's pattern. Each pair of sleepers to consist of two cast-iron plate sleepers with loose jaws, and one tie-bar complete with keys and cotters.	5′ 6″	D. H.	Steel ...	75	100	241—43 / 255—57	117,000 pairs =65 miles.	3 7 3	Ton.	For sleepers.
													5 15 0	„	„ tie-bars.
													13 5 0	„	„ fastenings.
623	26th May 1884 ...	6 of '84	Cuddapah-Nellore ...		Plate with fastening complete. The various parts of the sleepers are estimated to weigh as follows :—	M. G.	F. F.	Steel ...	41¼	100	239 260.	100,000 pairs for 50 miles.			
					2 plate castings, 92 lbs.	...	...	...	...	...	...	...	3 17 6	„	For sleepers and fastenings.
					2 C. I. jaws 4·3 „	...	...	...	...	...	...	...			
					2 C. I. wedges 3·5 „	...	...	...	...	...	...	...			
					1 W. I. tie-bar 10 „	...	...	...	...	...	...	...	6 5 0	„	For W. I. tie-bar.

D.—Permanent Way Materials.

D.—Permanent Way Materials.

Statement showing actual rates for articles contracted for by the India Office from January to December 1884—contd.

Contract. No. D.	Contract. Date.	Number of Indent.	For what Railway.	Article.	Details. Description.	Gauge.	For what rail. Section.	For what rail. Iron or steel.	For what rail. Weight in lbs. per yard.	Weight of each sleeper with fastening.	No. of India Office drawings. D.	Quantity contracted for.	Rates. F. O. B. in England (Actual.)	Unit.	Remarks.
647	22nd July 1884 ...	25 of '84	Eastern Bengal ...	Sleepers, iron, cast—*contd.*	Denham Olphert's pattern—	5′ 6″	D. H.	Steel ...	75	100	241 to 243	50,000 pairs. for 25 miles.	20,320 7 8	Total.	
					C. I. plate sleepers ...	...	...	...	...	...	277 to 279	...	3 12 6	Ton.	
					W. I. tie-bars ...	...	...	...	...	...	...	...	5 15 0	„	
					„ split keys ...	...	...	...	...	...	...	...	28 12 6	„	
					„ cotters ...	...	...	...	...	...	...	...	11 7 3	„	
					Each pair of sleepers to consist of 2 cast-iron plate sleepers with loose jaws, and one tie-bar complete with keys and cotters.	...	...	...	...	...	...	...	...	...	

INDIAN STATE RAILWAYS.

Statement showing actual rates for articles contracted for by the India Office from January to December 1884—contd.

CONTRACT. No. D.	CONTRACT. Date.	Number of Indent.	For what Railway.	Article.	DETAILS. Description.	Gauge.	FOR WHAT RAIL. Section.	Iron or steel.	Weight in lbs. per yard.	Weight of each sleeper with fastening.	No. of India Office drawings. D.	Quantity contracted for.	RATES. F. O. B. in England. (actual)	Unit.	REMARKS.
									lbs.	lbs.			£ s. d.		
669	7th November 1884	57 of '84	Rewari-Ferozepore ...	Sleepers, iron, cast—*contd.*	Plate with fastenings complete. Each pair of sleepers to consist of two C. I. plate sleepers, two cast-iron inside rail jaws, two C. I. wedges, and one W. I. tie-bar.	M. G.	F. F.	Steel ...	41½	110	239 284	17,000 pairs = 8½ miles	2,732 5 0	Total	The weight of the fastenings is exactly similar to that given in contract D 623.
					Cast-iron sleepers ...	...	...	...	...	...	...	17,000 pairs	2 19 3	Ton.	
					C. I. inside rail jaws ...	...	...	...	...	...	...	35,700 No.	3 17 9	„	
					„ wedges ...	...	...	...	...	...	...	35,700 „			
					W. I. tie-bars ...	...	...	...	...	...	...	17,000 „	5 11 3	„	
677	19th Dec. 1884 ...	19 P. R.	Companygunj and Therriaghat and Cherraunji Tramways		Sleepers for 25 lbs. rails ..	2' 6"	F. F.	Steel ...	25	Not given	...	13,600 „	Rate not given.		

Statement showing actual rates for articles contracted for by the India Office from January to December 1884—contd.

CONTRACT. No. D.	CONTRACT. Date.	Number of Indent.	For what Railway.	Article.	DETAILS. Description.	Gauge.	FOR WHAT RAIL. Section.	Iron or steel.	Weight in lbs. per yard.	Weight of each sleeper with fastening.	No. of India Office drawings. D.	Quantity contracted for.	RATES. F. O. B. in England (Actual).	Unit.	REMARKS.
													£ s. d.		
162	26th May 1884 ... 20th June 1884 ...	23 of '84	Sind-Pishin ...	Sleepers, iron, fastenings for—	Tie-bars.	B. G.	D. H.	Steel	75	...	...	...	5 15 0	Ton	
					Keys and cotters ...	„	„	„	„	...	...	...	13 5 0	„	
623	26th May 1884 ...	6 of '84	Cuddapah-Nellore ...		W. I. tie-bars ...	M. G.	F. F.	„	41¼	...	...	50,000 No.	6 5 0	„	
648	30th July 1884 ...	23 of '84	Sind-Pishin ...		„ split keys ...	B. G.	D. H.	„	75	...	...	8,100 „	14 7 6	„	
					„ cotters (special for curves).	„	„	„	„	...	...	8,100 „			
675	27th Nov. 1884 ...	68 of '84	Cawnpore-Kalpi ...		W. I. tie-bars for C. I. plate sleepers for 75 lb. rails.	„	„	„	„	...	...	98,000 „	5 5 0	„	The sleepers have been ordered of the Bengal Iron Works Company.
					W. I. cotters for C. I. plate sleepers for 75 lbs. rails.	„	„	„	„	...	...	1,96,000 „	13 0 0	„	The total cost of these fastenings is £7,356-9-0.
					W. I. gibs for C. I. plate sleepers for 75lbs. rails.	„	„	„	„	...	...	1,96,000 „	13 0 0	„	

D.—Permanent Way Materials.

Statement showing actual rates for articles contracted for by the India Office from January to December 1884—contd.

Contract. No. D.	Contract. Date.	Number of Indent.	Railway.	Article.	Details. Description.	Details. Gauge.	Details. For what rail. Section.	Details. For what rail. Iron or steel.	Details. For what rail. Weight in lbs. per yard.	Details. Weight of each sleeper with fastening.	No. of India Office drawings. D.	Quantity contracted for.	Rates. F. O. B. in England. (Actual).	Rates. Unit.	Remarks.
									lbs.	lbs.			£ s. d.		
617	23rd Apl. 1884 ...	90 of '83	Nizam's ...	Sleepers, steel.	Transverse ...	5′ 6″	F. F.	Steel	62	105	D. 231 D. 270	Sleepers 10,608 No.			
					Each sleeper consisting of—							Outside clips 22,172.			
					2 outside rail clips ...							Do. for curves 1,168.			
					2 inside „ „ ...							Inside clips 23,340.	8 10 0 or 4,246 15 5	Ton Total.	5 per cent. of the outside rail clips and wedge bearing pieces are to be made use on curves, and 10 per cent. of each sort of fastening for wastage.
					2 wedges ...							Wedge bearing pieces 22,172.			
					2 wedge bearing pieces ...							Do. for curves 1,168.			
												Dogkeys 23,340.			

D.—Permanent Way Materials.

Statement showing actual rates for articles contracted for by the India Office from January to December 1884—concld.

Contract. No. D.	Contract. Date.	Number of Indent.	Railway.	Article.	Details. Description.	Details. Gauge.	Details. For what rail. Section.	Details. For what rail. Iron or steel.	Details. For what rail. Weight of lbs. per yard.	Details. Weight of each sleeper with fastening.	No. of India Office drawings. D.	Quantity contracted for.	Rates. F. O. B. in England. (Actuals).	Rates. Unit.	Remarks.
									lbs.	lbs.			£ s. d.		
622	26th May 1884 ...	6 of '84	Bellary-Kistna ...	Sleepers, steel.	Transverse with W.I. fastenings, complete.	M. G.	F. F.	Steel	41¼	57½	240 259	1,00,000= 50 miles.	7 12 0	Ton	For sleepers.
					Each sleeper consisting of—										
					As above ...								20 9 11	Ton	For W. I. fastenings. 5 per cent. extra of all the fastenings, and an additional 5 per cent. of wedge bearing pieces of special form for curves have been provided.
677	19th Dec. 1884 ...	19 P. R.	Companygunj and Theriaghat.		Greig's patent corrugated and flanged steel ⌐(¯⌐ 6″ × $\frac{3}{16}$″ × 3′ 9″ long, *i.e.*, having a projection of 7½ inches on each side beyond the gauge.	30″	F. F.	...	25	...	...	13,600	Rate not given.		
641	1st July 1884 ...	17 of '84	Bhopal ...	Sleepers, fastenings for—	Outside rail clips ...	5′ 6″	F. F.	Steel	62	...	198 & 199	No. 5,000	24 0 0	Ton.	
					Inside „ „ ...	...	...	...	...	...	...	„ 7,500			
					Wedge bearing pieces ...	...	...	...	...	...	...	„ 7,500			
					Wedges ...	...	...	...	...	...	...	„ 1,500			

INDIAN STATE RAILWAYS.

D.—Permanent Way Materials.

D.—Permanent Way Materials.

Statement showing actual rates for articles contracted for by the India Office from January to December 1884.

Contract. No. D.	Contract. Date.	Number of Indent.	Railway.	Article.	Details. Description.	Details. For what rail. Section.	Details. For what rail. Iron or steel.	Details. For what rail. Weight in lbs. per yard.	Details. Weight of each spike.	India Office drawings. (If any).	Quantity contracted for.	Rates. F. O. B. in England. (Actual).	Rates. Unit.	Remarks.
								lbs.	lbs.			£ s. d.		
606	12th Jan. 1884 ...	84 of '83	Rajputana-Malwa ...	Spikes.	.....	F. F.	Steel	41¼	...	...	55 cwt.	0 13 6	Cwt.	Standard specification.
607	31st Jan. 1884 ...	89 of '83	Punjab Northern ...		.....	„	„	41¼	...	...	20 tons.	12 0 0	Ton	Standard specification.
		97 of '83	Northern Bengal ...								48 „			
610	3rd March 1884 ...	86 of '83	Jhansi-Manickpur ...		.....	„	„	41¼	·53	Lithograph	493 „	10 15 0	„	
615	31st March 1884 ...	101 of '83	Northern Bengal ...		.....	„	„	41¼	·53	„	47 „	11 0 0	Ton.	
626	8th May 1884 ...	14 P. R.	Cherapunji Tramway		No. 16 required for each rail with 5 per cent. wastage.	„	„	15	...	...	No. 60,000 = 4½ tons.	0 18 0	Cwt.	
					No. 18 to each rail with 5 per cent. wastage.	„	„	18	...	...	No. 4,000 = 6 cwt.	0 18 0	„	
627	9th June 1884 ...	22 of '84	Tirhoot ...		.....	„	„	41¼	...	...	50 tons	11 5 0	Ton.	
638	20th June 1884 ...	8 of '84	Rajputana-Malwa ...		.....	„	„	45	·53	Lithograph	600 = 0—2—3—10	12 0 0	„	
649	13th Aug. 1884 ...	26 of '84	Indus Valley ...		.....	„	„	62	·7	Ditto.	47 tons	11 0 0	„	
650	11th Sept. 1884 ...	16 of '84	Rajputana-Malwa ...		.....	„	„	74	...	...	3 Cwt.	0 13 0	Cwt.	
664	5th Nov. 1884 ...	31, 43, 54, & 65 of '84	Tirhoot, Bhavnagar-Gondal, Assam-Behar, and Cawnpore-Achnera.		.....	„	„	41¼	·53	Lithograph	212½ tons	10 15 0	Ton.	
668	8th Nov. 1884 ...	55 of '84	Punjab Northern ...		.....	„	„	62	·7	Lithograph	20 „	10 15 0	„	
674	19th Dec. 1884 ...	19 P. R.	Companygunj and Theriaghat.		¾" square by 3½" long ...	F. F.	„	25	...	...	25,000 No. = 31 cwt.	38 0 5	Total.	

INDIAN STATE RAILWAYS.

D.—Permanent Way Materials.

D.—Permanent Way Materials.

Statement showing actual rates for articles contracted for by the India Office from January to December 1884.

Contract. No. D.	Contract. Date.	Indent No.	For what Railway.	Article.	Details. Description.	Details. Gauge.	Details. For what Rail. Section.	Details. For what Rail. Iron or steel.	Details. For what Rail. Weight in lbs. per yard.	Details. Length of tongue.	No. of India Office drawing D.	Quantity contracted for.	Rates. F. O. B. in England (Actual.)	Rates. Unit.	Remarks.
									lbs.				£ s. d.		
613	21st March 1884 ...	84, 85, 86 & 101 of '83	Rajputana-Malwa, Jhansi-Manickpur and Nagpur-Bengal.	Switches (or points) complete.	Complete	M. G.	F. F.	Steel	41¼	12′	130	99 sets ...	6 18 0	Set.	
											251				
613	21st March 1884...	86 & 101 of '83	Jhansi-Manickpur and Nagpur-Bengal.		Ditto	„	„	„	...	9′	...	21 „ ...	6 10 6	„	
618	21st April 1884 ...	22 of '84	Tirhoot ...		Ditto	„	„	„	...	12′	130	20 „ ...	6 12 6	„	
											253				
626	8th May 1884 ...	14 P. R.	Cherapunji ...		Ditto	„	„	„	15 & 18	6′	264/1–3	15 No. ...	0 16 0	Each.	
637	20th June 1884 ...	13 of '84	Rajputana-Malwa ...		Ditto	„	„	„	41¼	12′	130 & 273	28 sets ...	6 15 0	Set.	
642	1st July 1884 ...	23 of '84	Sind-Pishin ...		Ditto (Wild and Parson's patent).	B. G.	D. H.	„	75	12′	246-47	30 „ ...	20 0 0	„	
											274-76				
642	1st July 1884 ...	23 of '84	Sind-Pishin ...		Complete	„	„	„	„	15′	...	80 „ ...	20 0 0	„	
655	17th Oct. 1884 ...	34 of '84	Rangoon and Sittang Valley.		Ditto	M. G.	„	„	41¼	12′	130	18 „ ...	7 0 0	„	
		43 „	Bhavnagar-Gondal ...		Ditto										

D.—Permanent Way Materials.

Statement showing actual rates for articles contracted for by the India Office from January to December 1884.

Contract. No. D.	Contract. Date.	Indent No.	For what Railway.	Article.	Details. Description.	Details. Gauge.	Details. For what Rail. Section.	Details. For what Rail. Iron or steel.	Details. For what Rail. Weight in lbs. per yard.	Details. Length of tongue.	No. of India Office drawings. D.	Quantity contracted for.	Rates. F. O. B. in England. (Actual.)	Rates. Unit.	Remarks.
									lbs.				£ s. d.		
662	7th Nov. 1884 ...	36 of '84	Nagpur-Chhattisgarh	Switches (or points) complete.	Complete	M. G.	D. H.	Steel.	41¼	12′	130 / 289	72 sets ...	6 14 0	Set.	
		56 „	Tirhoot ...												
		65 „	Cawnpore-Achnera ...												
		67 „	Punjab Northern ...												
662	7th Nov. 1884 ...	Ditto	...		Ditto	„	„	„	41¼	9′	...	20 „ ...	6 8 0	„	
674	28th Nov. 1884 ...	68 „	Cawnpore-Kalpi ...		Ditto	B. G.	„	„	75	12′	246-47 / 287-88	45 „ ...	19 17 0	„	
677	19th Dec. 1884 ...	19 P. R.	Companygunj & Theriaghat Tramway.		4 right hand and 4 left hand switch crossings complete with corrugated steel sleeper bars, each fitted with switch box and balanced hand lever. The branches to be led off at 60 or 100 ft. radius.	2′ 6″	F. F.	„	25	...	...	8 „ ...	110 0 0	Total	For points and crossings.
677	19th Dec. 1884 ...	19 P. R.	Companygunj & Theriaghat Tramway		3 right and 3 left hand switch crossings complete, suitable for animal power.	2′ 6″	„	„	18	...	...	6 „ ...	39 9 0	„	Ditto.

D.—Permanent Way Materials.

Statement showing actual rates for articles contracted for by the India Office from January to December 1884.

Contract. No.	Contract. Date.	Number of Indent.	For what Railway.	Article.	Description.	Quantity contracted for.	Rate. F. O. B. in England (actual).	Rate. Unit.	Remarks.
							£ s. d.		
613	21st March 1884 ...	84 of '83 ...	Rajputana-Malwa ...	Switches, spare parts of—	Slide chairs	357 No.	0 1 6	Each.	
613	21st March 1884 ...	84 of '83 ...	Rajputana-Malwa ...		Lever handles, &c., complete. Each set to comprise 1 lever frame or "box," wrought-iron lever and weight, cams, bell crank ("Elbow"), connecting rod, pins and cotters complete, 4 holding down bolts 7¾″ × ¾″ with nuts and washers.	106 sets	1 10 0	Set.	
613	21st March 1884 ...	84 of '83 ...	Rajputana-Malwa ...		Lever handles (tumbler lever, &c.). Each set to comprise 1 wrought-iron lever handle, and weight, cams (tumblers) 1 pin and cotter.	10 „	0 10 0	„	
613	21st March 1884 ...	85 of '83 ...	Rajputana-Malwa ...		Bolts for distance blocks 6½″ × ¾″ with nuts and washers	50 No.	0 0 3	Each.	
613	21st March 1884 ...	85 of '83 ...	Rajputana-Malwa ...		Rivets for flat guide and connecting bars ...	30 „	0 0 1	„	
613	21st March 1884 ...	85 of '83 ...	Rajputana-Malwa ...		(Spikes for lever frames) holding down bolts 7¾″ × ¾″ for frame with nuts and washers.	30 „	0 0 4	„	
623	10th June 1884 ...	13 of '84 ...	Rajputana-Malwa ...		Tumblers complete (28 tumbler levers and weights and 28 loose tumbler castings).	28 „	1 0 0	„	
640	23rd June 1884 ...	8 of '84 ...	Rajputana-Malwa ...		Rivets for flat guide and connecting bars ...	570 No.	0 0 1	„	
640	23rd June 1884 ...	8 of '84 ...	Rajputana-Malwa ...		Bolts for distance blocks 6½″ × ¾″ with nuts and washers.	2,350 „	0 0 3	„	

Statement showing actual rates for articles contracted for by the India Office from January to December 1884—contd.

Contract. No.	Contract. Date.	No. of Indent.	For what Railway.	Article.	Description.	Quantity contracted for.	Rates. F. O. B. in England (Actual.)	Rates. Unit.	Remarks.
							£ s. d.		
640	23rd June 1884 ...	8 of '84 ...	Rajputana-Malwa ...		Tumbler levers complete, each consisting of one W. I. lever with weight and tumbler casting attached and one loose tumbler casting.	8 No.	0 10 0	Each.	
640	23rd June 1884 ...	8 of '84 ...	Rajputana-Malwa ...		Holding down bolts $7\frac{3}{4}'' \times \frac{3}{4}''$ for frame with nuts and washers.	20 „	0 0 4	„	
650	11th September 1884 ...	16 of '84 ...	Rajputana-Malwa ...	Switches, spare parts of—	Holding down bolts $7\frac{3}{4}'' \times \frac{3}{4}''$	344 „ = 0-4-2-12	0 13 0	Cwt.	
650	11th September 1884 ...	16 of '84 ...	Rajputana-Malwa ...		Tie-rods for switches 4′ $\frac{5}{8}''$ long	35 No. = 0-6-0-2	0 13 0	„	
650	11th September 1884 ...	16 of '84 ...	Rajputana-Malwa ...		Ditto ditto 4′ 3″ „	35 No. = 0-6-1-16	0 11 0	„	
655	17th October 1884 ...	34 of '84 ...	R. and S. V. ...		Stock rails right, 9 ft.	4 „	1 1 6	Each.	
					Ditto left, 9 ft.	4 „			
					Ditto right, 12 ft.	4 „			
					Ditto left, 12 ft.	4 „			

(Sd.) T. F. DOWDEN, Colonel, R.E.,

for Director General.

APPENDIX.

To arrive at the actual cost of Permanent Way Materials, the following percentages on the original value may be added for entire sea freight.

Materials.	Port, Karachi.	Port, Bombay.	Port, Madras.	Port, Calcutta.	Port, Rangoon.	Remarks.
Rails	19	17	14·5	17·5	14	
Sleepers	31	23	20·5	27	...	No sleepers arrived at the port of Rangoon from England.
Fastenings	14·5	11	12·5	10·5	9	
Crossings	4	3	3	2·5	6·5	
Switches	9·5	7	9	9·5	12	

N.B.—(1) The landing charges at the Port may be estimated at Rs. 2 to Rs. 3 per ton.

(2) In all cases one per cent. on English cost plus entire sea freight should be added to cover insurance (P. W. D. Code XIV, vii, 161, as amended by Standing Orders Nos. 62, 75 and 77 of 1884).

Enclosure to Director General of Railways' Circular No. 23 of 1885.

PUBLIC WORKS SECRETARIAT
No. 3256
LIBRARY

RATE LIST.

CLASS B.

ENGINEERS' PLANT (EXCLUDING PETTY TOOLS)

FOR 1884.

PUBLIC WORKS SECRETARIAT
No. 3256
LIBRARY

Enclosure to Director General of Railways' Circular No. 23 of 1885.

RATE LIST.

CLASS B.

ENGINEERS' PLANT (EXCLUDING PETTY TOOLS)

FOR 1884.

Enclosure to Director General of Railways' Circular

CLASS B.—ENGINEERS' PLANT (EXCLUDING PETTY TOOLS).

INDIAN STATE

Statement showing Actual English and Approximate Indian Rates for articles contracted

Name of vessel.	Contract. No.	Contract. Year.	Contract. Month.	Indent number.	For what railway.	Articles.	Details.	Quantity Invoiced. No.	Weight. Ton.	cwt.	qr.	lb.
S.S. "Ravena" 12-6-83.	86	1883	Mar. 7th	74 of '82	Wardha Coal ...	Apparatus ...	Fleuss' for working in irrespirable gases. One set consisting of—1 breathing apparatus, with mask, &c., complete; 1 patent lamp for entering noxious gases; 12 bottles of compressed oxygen with 56 lbs. of caustic soda ...	1 set	...	...	...	...
S.S. "Verona" 19-3-84.	93	1883	Dec. 15th	80 of '83	Wardha Coal ...	Apparatus ...	H. A. Fleuss' for diving or working in irrespirable gases with lamp and the necessary fittings complete	3 sets	...	...	...	...
							Oxygen	bottles 30	...	...	...	...
							Caustic soda	...	0	1½	0	0
							Jars for soda	84	...	...	...	...
							Pump for charging receivers	1	...	...	...	...
							Potassium chlorate ...	...	0	0	0	560
							Jars for chlorate ...	20	...	...	...	...
							Gas bag for receiving oxygen	2	...	...	...	...
S.S. "Malwa" 31-5-84.	93*a*	1884	Mar. 20th	80 of '83	Wardha Coal ...	Apparatus ...	For making oxygen gas ...	1	0	0	1	27
S.S. "Patna" 13-4-82.	76	1882	Feb. 20th	51 of '81	Indus Valley ...	Apparatus, pneumatic, for sinking cylinders; fittings for—	Packings, India-rubber— 4 for bell 5′ 7⅞″×1⅛″×$\frac{5}{16}$″ 4 for head 3′ 3¾″×1½″×$\frac{5}{16}$″ 36 for tubes 2′ 6¾″×1½″×$\frac{5}{16}$″ 8 for doors 1′ 10¼″×1″×¾″ 6 square feet India-rubber $\frac{5}{16}$″ sheet for coupling snugs	2 sets	...	...	...	...
							White bull's-eye glasses, 8″ diameter and 1¾″ thick ...	6 No.	...	...	...	...
S.S. "Oakville" 6-4-82.	76	1882	Feb. 20th	51 of '81	Rangoon and Sittang Valley.		For details, see above ...	2 sets	...	...	...	...
							White bull's-eye glasses as above	6 No.	...	...	...	...
S.S. "Grafton" 31-8-82.	83	1882	June 6th	5 of '82	Rangoon and Sittang Valley.		Air valves, blow-off cocks, Salter's indicators, feed and stop valves and cocks ...	2 sets	...	...	...	...
							White bull's-eye glasses ...	6 No.	...	...	...	...
S.S. "Arcot" 31-8-82.	83	1882	June 6th	5 of '82	Indus Valley ...		For details, see above ...	2 sets	...	...	...	...
							White bull's-eye glasses ...	6 No.	...	...	...	...

FROM

THE DIRECTOR GENERAL
OF RAILWAYS.

To

Circular No. 23.

Dated Simla, December 19, 1885.

Received

INDIAN STATE RAILWAYS.
Rate List, Class B,—Engineers' Plant (excluding Petty Tools).

Govt. C. B. Press, Simla.—No. 743 D. G. R.—27-12-85—2, 000.

[*General Distribution.*]

Circular No. 23.

FROM

THE DIRECTOR GENERAL OF RAILWAYS,

To

THE MANAGERS, PUNJAB NORTHERN, INDUS VALLEY AND EASTERN BENGAL STATE RAILWAYS.

THE ENGINEERS-IN-CHIEF, JHANSI-MANIKPUR, BELLARY-KISTNA, NAGPUR-BENGAL, BILASPUR-ETAWAH, SIND-PISHIN, NORTHERN SECTION, BOLAN AND SIND-SAGAR STATE RAILWAYS.

THE ENGINEER-IN-CHIEF, FEROZEPORE BRIDGE WORKS.

THE PORT STOREKEEPERS, STATE RAILWAY DEPARTMENT, CALCUTTA, BOMBAY AND KURRACHEE.

Simla, December 19, 1885.

SIR,

I have the honor to forward, for information and guidance, a printed statement showing the actual English and approximate Indian rates for B class State Railway Stores "Engineers' Plant (excluding Petty Tools)" contracted for by the India Office from 13th April 1881 to 31st December 1884.

I have the honor to be,

SIR,

Your most obedient Servant,

T. F. DOWDEN, Colonel, R.E.,
for Director General.

Document accompanying.
Rate list, class B,—Engineers' Plant (excluding Petty Tools).

The Secretaries to the Governments of Bengal, the North-Western Provinces and Oudh and the Punjab, Public Works Department.
The Secretaries to the Chief Commissioners of the Central Provinces, British Burma and Assam, 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 Biluchistan, Public Works Department.
The Consulting Engineers for Railways, Madras and Bombay.
The Consulting Engineers to the Government of India for Guaranteed Railways, Calcutta, Lahore and Lucknow.
The Agents and Chief Engineers, Bengal Central and Bengal and North-Western Railway Companies, Limited.
The Agent and General Manager, Assam Railways and Trading Company, Limited.

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

T. F. DOWDEN, Colonel, R.E.,
for Director General.

No. , dated 1885.

Class B.—Engineers' Plant (excluding Petty Tools).

RAILWAYS.

for and invoiced by the India Office from 13th April 1881 to 31st December 1884.

English cost.									Indian cost.									Total cost at port at 2s. the rupee English and Indian charges.						Port at which landed.	Remarks.
F. O. B. in England as per contract.			Freight paid in England.			Total.			Freight paid in India.			Landing charges at port.			Total.			Rate.			Unit.				
£	s.	d.	£	s.	d.	£	s.	d.	Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.	Rs.	A.	P.					
88	0	0	0	13	3	88	13	3	2	0	4	2	3	3	4	3	7	890	13	7	set			B.	Weight as per tonnage and freight account, 1 ton and 2 cwts.
144	0	0																							
120	0	0																							
9	16	0																							
1	8	0	2	14	9	331	8	9	8	8	2	8	0	9	16	8	11	3,330	14	11	Total			B.	Weight of all these articles as per tonnage and freight account, 4 tons and 2 qrs.
23	0	0																							
21	0	0																							
2	10	0																							
7	0	0																							
328	14	0																							
3	10	0	0	4	5	3	14	5	0	10	8	0	10	3	1	4	11	38	8	3	each			B.	
140	0	0	0	10	3	143	16	3	1	8	10	1	4	4	2	13	2	1,440	15	2	Total			K.	Similar to those supplied by Messrs. Armstrong & Co., under their contract B. 33, and shewn in drawing B. 72.
3	6	0																							
143	6	0																							
140	0	0	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...			R.	
3	6	0																							
143	6	0																							
12	10	0	0	1	9	12	11	9	0	4	1	...	...	...	...	...	...	...	...	...	...			R.	For drawings and specifications, *vide* contract B. 33.
12	10	0	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...			K.	

Class B.—Engineers' Plant (excluding Petty Tools).

INDIAN STATE

Statement showing Actual English and Approximate Indian Rates for articles contracted

Name of vessel.	Contract. No.	Contract. Year.	Contract. Month.	Indent number.	For what railway.	Articles.	Details.	Quantity Invoiced. No.	Weight. Ton.	Weight. cwt.	Weight. qr.	Weight. lb.
S.S. "Anglo-Indian." 3-3-84.	94	1884	Jan. 7th	76 of '83	Punjab Northern...	Bears, punching	Duplex, maximum size $\frac{3}{4}$", $\frac{1}{4}$" plate. The bears to be of best wrought iron forged and screws and punches of steel, Tangye's No. 3 ...	2	...	1	1	24
S.S. "Dryburgh-Abbey." 15-6-82.	80	1882	Apl. 3rd	3 of '82	Southern Mahratta	Blocks, differential.	Weston's patent with Tangye's patent gear to lift 1 ton ...	4	...	...	...	...
						Ditto	To lift 2 tons ...	2	...	...	...	...
S.S. "Lawada." 15-6-85.	115	1884	Dec. 31st	60 of '84	Indus Valley ...	Blocks, pulley ...	Weston's patent to lift 1 ton	6	0	5	3	3
S.S. "Clan Drummond." 16-5-85.	109	1884	Nov. 7th	82 of '84	Tirhoot, Gunduck Bridge.	Blocks, snatch ...	For steel wire rope ...	3	...	...	...	...
							Single pulleys ...	3	...	...	...	...
S.S. "Arcot." 31-8-82.	79	1882	Mar. 23rd	51 of '81	Indus Valley ...	Ejectors (or bilge pumps).	Messrs. Freidmann's Class B—					
							No. I	1	...	...	...	...
							No. III	1	...	...	...	...
							No. IV	1	...	...	...	...
						Ejectors (or bilge pumps); fittings for—	Steam pipes for ditto, flexible, of India-rubber hose, with a central coil of copper wire—					
							For No. I Ejector, $1\frac{1}{4}$" bore, in 4 lengths ...	80 feet	...	...	...	...
							For No. III Ejector, $1\frac{1}{2}$" bore, in 4 lengths ...	80 feet	...	...	...	...
							For No. IV Ejector, 2" bore, in 4 lengths ...	80 feet	...	...	...	...
							Steam pipe, wrought iron, with ordinary wrought iron flange, joint and bolt—					
							For No. I Ejector, $1\frac{1}{4}$" bore, in 15 lengths ...	120 feet	...	...	...	...
							For No. III Ejector, $1\frac{1}{2}$" bore, in 15 lengths ...	120 feet	...	...	...	...
							For No. IV Ejector, 2" bore, in 15 lengths ...	120 feet	...	...	...	...
							Delivery pipe of India-rubber hose with a central coil of copper wire, flexible, with gun-metal joints—					
							For No. I Ejector, $1\frac{1}{2}$" hose, in 3 lengths ...	60 feet	...	...	...	...
							For No. III Ejector, 2" hose, in 3 lengths ...	60 feet	...	...	...	...
							For No. IV Ejector, $2\frac{1}{2}$" hose, in 3 lengths ...	60 feet	...	...	...	...
							Delivery pipes of wrought iron flange, joints and bolts—					
							For No. I Ejector, $1\frac{1}{2}$" bore, in 15 lengths ...	120 feet	...	...	...	...
							For No. III Ejector, 2" bore, in 15 lengths ...	120 feet	...	...	...	...
							For N IV Ejector, $2\frac{1}{2}$" bore, in 15 lengths ...	120 feet	...	...	...	...

Class B.—Engineers' Plant (excluding Petty Tools).

RAILWAYS.

for and invoiced by the India Office from 13th April 1881 to 31st December 1884.

English cost. F. O. B. in England as per contract. £	s.	d.	Freight paid in England. £	s.	d.	Total. £	s.	d.	Indian cost. Freight paid in India. Rs.	A.	P.	Landing charges at port. Rs.	A.	P.	Total. Rs.	A.	P.	Total cost at port at 2s. the rupee English and Indian charges. Rate. Rs.	A.	P.	Unit.	Port at which landed.	Remarks.
11	15	0	0	3	0	11	18	0	0	7	5	0	6	0	0	13	5	119	13	5	Total	K.	
18	0	0																					
19	0	0	0	6	2	37	6	2	0	14	10	1	5	0	2	3	10	375	5	2	Total	B.	
37	0	0																					
14	0	0	0	4	2	14	4	2	0	10	4	1	0	7	1	10	11	143	12	3	Total	K.	
19	10	0	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	C.	
18	0	0	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		
8	0	0																					
15	0	0																					
21	0	0																					
19	1	1																					
29	2	2																					
29	2	2																					
6	6	9																					
8	8	4																					
11	13	2	10	10	8	253	1	11	32	13	0	22	9	4	65	6	4	2,586	5	8	Total	K.	
16	13	2																					
21	16	6																					
27	14	8																					
8	8	4																					
11	13	2																					
15	9	8																					
242	11	3																					

INDIAN STATE

Statement showing Actual English and Approximate Indian Rates for articles contracted

Name of vessel.	Contract. No.	Contract. Year.	Contract. Month.	Indent number.	For what railway.	Articles.	Details.	Quantity Invoiced. No.	Weight. Ton.	cwt.	qr.	lb.
S.S. "Mount Olivet." 5-4-85.	114	1884	Dec. 15th	68 of '84	Cawnpore-Kalpi ...	Engine, steam, portable.	12 H. P. high pressure with duplicate parts, &c., complete. The engine is to have 2 steam cylinders and the piston clearance at each end of the cylinder is not to exceed $\frac{1}{8}$" ...	1	9	0	1	3
S.S. "Kangra." 7-6-84.	87	1883	May 12th	21 of '83	Indus Valley—Sukkur Ferry.	Engines, winding	Robey's complete (25 H. P. nominal), improved horizontal stationary steam winding engines. The engines are precisely the same as supplied in contract C129, but in lieu of cylinders having 13" liners, they will be fitted with 12$\frac{1}{2}$" liners ...	2	52	7	1	16
S.S. "Kerby Hall." 21-6-84.	87	1883	May 12th	21 of '83	Indus Valley—Sukkur Ferry.	Ditto	The same as sent out per S.S. "Kangra" ...	1	26	3	2	22
S.S. "Persia." 24-7-84.	87	1883	May 12th	21 of '83	Indus Valley—Sukkur Ferry.	Ditto	The same as sent out per S.S. "Kangra" ...	1	26	3	2	22
							£145 has been added to 2 winding engines, shipped per S.S. "Kerby Hall" and "Persia" for 2 lengths steel wire rope, each 250 feet long, fitted with thimble and eye, 1 set phosphor bronze piston rings, 1 set connecting rod brasses for both ends, 1 set crank shaft brasses, 36 gauge glasses and 72 India-rubber washers, 12 flexible plugs, 12 boiler tubes with steel ferrules, 1 set fire bars, 2 tube brushes, and 1 set firing tools.					
S.S. "Werneth Hall." 24-1-85.	113	1884	Dec. 13th	102 of '84	Indus Valley ...	Engine, winding; fittings for—	Spur wheel for winding engine No. 11899 supplied on contract B 87 by Messrs. Marshall Sons and Company	1	1	13	0	0
							Cog-wheels for winding engine No. 11899 supplied on contract B 87 by Messrs. Marshall Sons and Company	1	0	4	1	12
S.S. "Clan Drummond." 16-5-85.	109	1884	Nov. 7th	82 of '84	Tirhoot, Gundack Bridge.	Excavators (Dredgers).	4' 6" diameter, Bruce and Batho's patent ...	2	...	...	...	...
							5' diameter	1	...	...	...	...
							Each dredger is to be supplied with the following duplicate parts, viz.:—					
							Spare steel centre ...	1	...	...	...	...
							Spare steel arm ...	1	...	...	...	...
							Spare steel blades ...	3	...	...	...	...

RAILWAYS.

for and invoiced by the India Office from 13th April 1881 to 31st December 1884.

English cost. F. O. B. in England as per contract. £	s.	d.	Freight paid in England. £	s.	d.	Total. £	s.	d.	Indian cost. Freight paid in India. Rs.	A.	P.	Landing charges at port. Rs.	A.	P.	Total. Rs.	A.	P.	Total cost at port at 2s. the rupee English and Indian charges. Rate. Rs.	A.	P.	Unit.	Port at which landed.	Remarks.
341	3	0	23	3	8	364	6	8	72	3	11	21	1	3	93	5	2	3,736	10	6	each	C.	
1,886	0	0	145	12	0	2,031	12	0	453	12	10	174	0	8	627	13	6	20,943	13	6	Total	K.	
943	0	0	69	12	0	1,012	12	0	216	14	10	87	0	8	303	15	6	10,429	15	6	each	K.	
943	0	0	69	12	7	1,012	12	7	217	0	5	87	0	8	304	1	1	10,430	5	9	each	K.	
38	10	0	1	17	3	40	7	3	5	13	0	6	3	7	12	0	7	415	10	7	Total	K.	
438	0	0	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	C.	
243	0	0	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		
120	0	0	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...		

INDIAN STATE RAILWAYS.

Statement showing Actual English and Approximate Indian Rates for articles contracted for and invoiced by the India Office from 13th April 1881 to 31st December 1884.

Name of vessel.	Contract. No.	Contract. Year.	Contract. Month.	Indent number.	For what railway.	Articles.	Details.	Quantity Invoiced. No.	Weight. Ton.	cwt.	qr.	lb.
	112	1884	Nov. 17th	27 of '84	Wardha Coal ...	Fan, ventilating	With direct acting engine and duplicate parts complete	1	...	...	...	...
S.S. "Clan Drummond." 16-5-85.	109	1884	Nov. 7th	82 of '84	Tirhoot Gundack Bridge.	Hoist, steam ...	To lift 3 tons by direct pull from the barrel, each with 400 feet steel wire rope	3	...	...	...	...
S.S. "Ischia." 11-7-82.	78	1882	Mar. 7th	51 of '81	Punjab Northern	Hooks, claw ...	For attaching union screws to chains—					
							¼" chain	100	...	...	...	...
							⅜" chain	200	...	...	...	...
							½" chain	200	...	...	...	...
							⅝" chain	100	...	...	...	...
S.S. "Hispania." 29-11-83.	84	1882	June 30th	23 of '81	Tirhoot ...	Jacks, rack ...	10 ton	6	...	...	...	...
S.S. "Arabia." 20-1-84.	91	1883	Nov. 12th	63 of '83	Rajputana-Malwa	Jacks, screw, bottle.	18" high to lift 6 tons with handles	6	0	1	3	20
S.S. "California." 10-9-84.	96	1884	Feb. 27th	91 of '83	Rajputana-Malwa	Ditto	Iron, flat-bottomed, with handles 18" high to lift 6 tons	33	0	9	2	25
							Levers for ditto ...	45	0	2	1	0
S.S. "City of Edinburgh." 6-12-83.	84	1882	June 30th	3 of '82	Southern Mahratta	Jacks, screw, Haley's.	To lift 8 tons	6	...	...	...	...
S.S. "Hispania." 29-11-83.	84	1882	Ditto	23 of '81	Tirhoot ...	Ditto	To lift 5 tons	4	...	...	...	...
S.S. "Anglo-Indian." 5-7-84.	92	1884	Jan. 7th	72 of '83	Rajputana-Malwa	Ditto	B. B. with steel pinions and wrought iron wheels, iron-bodied, 34" high, with handle complete, to lift 10 tons ...	8	...	...	...	...
S.S. "Hispania." 29-11-83.	84	1882	June 30th	23 of '81	Tirhoot ...	Jacks, screw, hydraulic.	Traversing, 10 tons ...	2	...	...	...	...
S.S. "Clan Murray." 30-11-83.	89	1883	June 20th	10 of '83	Nagpur-Chhattisgarh.	Ditto	Ordinary, to lift 10 tons, Tangye's patent, special loco. pattern ...	2	...	...	...	...
							Traversing, 10 tons ...	4	...	...	...	...
S.S. "Agnes." 21-5-81.	73	1881	Apl. 13th	4 of '81	Holkar and Sindia-Neemuch.	Jacks, screw, traversing.	To lift 6 tons, similar to those previously supplied by Messrs. Tangye Brothers ...	2	...	...	...	...

English cost. F. O. B. in England as per contract. £	s.	d.	Freight paid in England. £	s.	d.	Total. £	s.	d.	Indian cost. Freight paid in India. Rs.	A.	P.	Landing charges at Port. Rs.	A.	P.	Total. Rs.	A.	P.	Total cost at Port at 2s. the rupee English and Indian charges. Rate. Rs.	A.	P.	Unit.	Port at which landed.	Remarks.
878	0	0	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	B.	Contract not completed as yet. Drawing C 701.
1,089	0	0	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	C.	
27	10	0																					
80	0	0																					
100	0	0	}	1	5	0	271	5	0	3	14	3	4	10	11	8	9	2	2,721	1	2	Total	K.	Weight as per Tonnage and Freight account ... Ton.cwt.qr.lb. 1 11 1 0
62	10	0																					
41	5	0	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	C.	
8	11	0		0	1	7	8	12	7	0	4	1	0	3	10	0	7	11	86	12	7	Total	B.	
66	0	0	}	0	9	0	66	9	0	1	6	4	1	6	5	2	12	9	667	4	9	Total	B.	
21	15	0	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	B.	
11	10	0	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	C.	
62	8	0		0	11	6	62	19	6	1	12	2	1	13	8	3	10	11	633	6	11	Total	B.	
19	0	0	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	C.	
59	0	0	}	0	4	2	59	4	2	0	10	8	0	12	0	1	6	8	593	8	0	Total	B.	
10	0	0	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Total	B.	

INDIAN STATE RAILWAYS.

Statement showing Actual English and Approximate Indian Rates for articles contracted for and invoiced by the India Office from 13th April 1881 to 31st December 1884.

Name of Vessel.	Contract. No.	Contract. Year.	Contract. Month.	Indent Number.	For what Railway.	Articles.	Details.	Quantity Invoiced. No.	Weight. Ton.	cwt.	qr.	lb.
S.S. "Ganges." 28-11-82.	77	1882	Mar. 2nd	53 of '81	Nagpur-Chhattisgarh—Nandgaon Extension.	Jacks, screw, traversing	To lift 10 tons	12	...	...	...	...
S.S. "Merton Hall." 11-6-82.	81	1882	Apl. 14th	7 of '82	Punjab Northern...		To lift 25 tons, 6" high and traverse 6"; the total height of the jacks not to exceed 16" when screwed down ...	2	...	...	...	...
S.S. "Clan Graham." 10-2-83.	84	1882	June 30th	3 of '82	Southern Mahratta		To lift 12 tons, suitable for metre gauge rolling stock...	10	...	...	...	...
S.S. "City of Edinburgh." 6-12-83.	84	1882	June 30th	3 of '82	Southern Mahratta		To lift 8 tons	18	...	...	...	...
S.S. "Hispania." 29-11-83.	84	1882	June 30th	23 of '81	Tirhoot ...		To lift 10 tons as low as possible	6	...	...	...	...
	90	1883	Sep. 25th	11P. R. of '83	Cawnpore-Farukhabad.		Duplex or double lift, 12 tons, Steward's patent ...	4	...	...	...	...
S.S. "Arabia." 20-1-84.	91	1883	Nov. 12th	63 of '83	Rajputana-Malwa		18" high with handle and rachet lever to lift 6 tons complete	2	0	1	0	8
S.S. "California." 10-9-84.	96	1884	Feb. 27th	91 of '83	Rajputana-Malwa		18" high with bars and traversing rachet complete, to lift 6 tons	12	0	7	1	10
S.S. "Huzara." 15-12-84.	103	1884	July 25th	24 of '84	Rajputana-Malwa		To lift 5 tons	3	0	1	2	24
S.S. "Lawada." 15-6-85.	115	1884	Dec. 31st	60 of '84	Indus Valley ...		To lift 6 tons	3	0	1	3	20
							To lift 12 tons	36	1	18	1	0
							Duplicate parts for 12 tons...	12 sets.				
S.S. "Speke-hall." 28-5-82.	74	1882	Jan. 3rd	41 of '81	Rewari-Hissar (Rewari-Ferozepore).	Jim crows.	With levers for 41½ lb. steel rails. Each jim crow is to weigh 90 lbs. when finished	24	...	...	...	...
S.S. "Romania." 30-4-83.	84	1882	June 30th	3 of '82	Southern Mahratta		For 41½ lb. metre gauge flat-footed Vignole's rails ...	6	...	...	...	...
H. M. S.S. "Clive." 6-6-83.	85	1883	Feb. 13th	82 of '82	Rajputana-Malwa		With levers for 41 ½lb. flat-footed steel rails ...	12	...	...	...	...
S.S. "Clan Sinclair." 10-8-83.	88	1883	May 20th	11 of '83	Northern Bengal...		With levers for 41½ lb. rails...	4	...	...	...	...
S.S. "Arabia." 24-7-84.	97	1884	Mar. 20th	101 of '83	Northern Bengal...		With levers for 41½ lb. rails...	15	...	...	...	...
S.S. "Bretton Hall." 7-8-84.	99	1884	May 28th	16 of '84	Rajputana-Malwa		With levers for 41½ lb. rails...	2	0	1	3	12
S.S. "Kirby Hall." 24-10-84.	101	1884	June 25th	23 of '84	Sind-Pishin ...		Steel levers	2	0	0	1	0
S.S. "Asia." 3-12-84.	102	1884	July 25th	24 of '84	Rajputana-Malwa		With levers for 75 lb. double-headed steel rails ...	20	1	19	1	5
S.S. "Lawada." 15-6-85.	115	1884	Dec. 31st	60 of '84	Indus Valley ...		With levers for 41½ lb. rails. The jim crows are to weigh 96lbs. each exclusive of the lever. They are to be made entirely of forged steel, the screws are to be 2½" diameter. The span of the jim crows is to be 20" ...	20	1	11	0	7
							With levers for 62 lb. steel rails	6	0	9	1	0

English cost. F. O. B. in England as per contract. £	s.	d.	Freight paid in England. £	s.	d.	Total. £	s.	d.	Indian cost. Freight paid in India. Rs.	A.	P.	Landing charges at Port. Rs.	A.	P.	Total. Rs.	A.	P.	Total cost at Port at 2s. the Rupee English and Indian charges. Rate. Rs.	A.	P.	Unit.	Port at which landed.	Remarks.
87	10	0	1	0	1	88	10	1	3	1	10	3	5	7	6	7	5	391	8	1	Total	B.	
14	0	0	0	5	6	14	5	6	0	13	2	0	12	0	1	9	2	141	5	2	Total	K.	
36	5	0	1	2	0	37	7	0	3	6	9	2	11	11	6	2	8	379	10	8	Total	B.	
51	15	0	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Total	B	
20	0	0	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Total	C.	
36	0	0	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Total	C.	
6	0	0	0	1	0	6	1	0	0	2	5	0	2	5	0	4	10	60	12	10	Total	B.	
42	0	0	0	5	11	42	5	11	0	14	10	0	14	11	1	13	9	424	13	1	Total	B.	
6	18	0	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	B.	
7	10	0	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Total	K.	
128	5	0	1	8	10	135	13	10	4	7	4	7	3	3	11	10	7	1,368	9	3			
6	0	0																					
134	5	0																					
66	0	0	0	11	10	66	11	10	1	13	11	2	11	1	4	9	0	670	7	8	Total	B.	Weight as per tonnage and freight account, 1 ton 7 cwts.
22	0	0	0	11	0	22	11	0	1	11	4	1	0	0	2	11	4	226	3	4	Total	B.	
36	0	0	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Total	B.	
13	0	0	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Total	C.	
44	5	0	0	10	2	44	15	2	1	8	10	2	0	6	3	9	3	451	2	7	Total	C.	
6	12	0	0	2	0	6	14	0	0	4	11	0	4	10	0	9	9	67	9	9	Total	B.	
84	0	0	1	17	7	85	17	7	5	15	10	7	6	9	13	4	7	872	1	3	Total	K.	Ton.cwt.qr.lb. Gross weight 2 7 0 2.
75	0	0	1	9	10	76	9	10	4	9	10	4	0	0	8	9	10	773	8	6	Total	B.	
22	10	0	0	6	11	22	16	11	1	0	6	1	11	5	2	11	11	231	3	3	Total	K.	

INDIAN STATI

Statement showing Actual English and Approximate Indian Rates for articles contracted

Name of Vessel.	Contract. No.	Contract. Year.	Contract. Month.	Indent Number.	For what Railway.	Articles.	Details.	Quantity Invoiced. No.	Weight. Ton.	cwt.	qr.	lb.
	110	1884	Nov. 7th	33 of '84	Tirhoot ...	Launch, steam	For Ganges Ferry, double-screw	1	...	...	...	...
S.S. "Inchulva." 21-10-82.	75	1882	Jan. 7th	41 of '81	Rewari-Hissar (Rewari-Ferozepore).	Machines, boring, hand.	Double handed... ...	10	...	...	...	...
							Screw augers ¾" diameter ...	120	...	...	...	...
S.S. "Clan Macdonald." 3-1-83.	75	1882	Jan. 7th	41 of '81	Ditto ...	Ditto ...	Double-handed. These are to be used for boring the holes for spikes and fang bolts in wooden sleepers ...	10	...	...	...	...
							Screw augers ¾" diameter ...	120	...	...	...	...
S.S. "Kerbela." 22-10-84.	105	1884	Sep. 2nd	50 of '84	Sind-Pishin ...	Machines, drilling	Hand-power, complete ...	2	...	...	...	...
							Duplicate parts ...	1 set	...	...	...	...
S.S. "Teviot." 7-11-84.	106	1884	Aug. 27th	50 of '84	Ditto ...	Ditto ...	Hand-power, complete ...	2	0	12	2	2
							Duplicate parts* ...	1 set				
							Steel	2 cwts.				
Parcel post ... 14-1-85.	106	1884	Aug. 27th	50 of '84	Ditto ...	...	Springs for drilling machine	2	...	...	...	...
S.S. "Asia." 3-12-84.	108	1884	Oct. 13th	50 of '84	Ditto ...	Ditto:— spare parts of.	Steel for drills ¼" ...	11 bars	0	2	0	0
S.S. "Kangra." 17-1-85.	104	1884	Aug. 27th	50 of '84	Ditto ...	Machines, rock-drilling.	Hand-power, complete ...	2	0	13	3	0
							Duplicate parts ...	1 set				
							Steel	2 cwts.				
S.S. "Kerby Hall." 24-10-84.	100	1884	July 5th	23 of '84	Ditto ...	Presses, bending	For 75lb. double-headed rails	4	3	1	0	0
S.S. "St. Albans." 24-7-84.	95	1884	Feb. 27th	91 of '83	Rajputana-Malwa	Presses, punching	Duplex, lever, to punch $\frac{9}{16}$" hole through $\frac{5}{8}$" plate with complete set of round punches and dies from $\frac{5}{16}$" to $\frac{9}{16}$" advancing by $\frac{1}{16}$" ...	4	...	...	...	...
S.S. "Sheikh." 1-9-82.	82	1882	Apl. 16th	3 of '82	Southern Mahratta	Presses, rail ...	For straightening 41½lb. steel rails	4	...	...	...	...

*Includes the cost of spare parts.

RAILWAYS.

for and invoiced by the India Office from 13th April 1881 to 31st December 1884.

English cost. F. O. B. in England as per contract. £	s.	d.	Freight paid in England. £	s.	d.	Total. £	s.	d.	Indian cost. Freight paid in India. Rs.	A.	P.	Landing charges at Port. Rs.	A.	P.	Total. Rs.	A.	P.	Total cost at port at 2s. the rupee English and Indian charges. Rate. Rs.	A.	P.	Unit.	Port at which landed.	Remarks.
1,770	0	0	...	...	..	...	...	...	...	...	..	...	...	...	...	...	..	...	...	..	each	C.	Contract not completed as yet.
41	0	0	0	17	3	52	2	3	2	11	1	2	6	5	5	1	6	526	3	6	Total	B.	Weight given in measurement.
10	5	0																					
41	0	0	0	8	5	51	13	5	1	4	8	1	1	3	2	5	11	519	1	3	Total	B.	In actual weight.
10	5	0																					
103	10	0	3	2	8	113	18	8	9	12	1	6	11	4	16	7	5	1,155	12	9	Total	K.	Gross weight 16 cwts., 2 qrs., 19lbs.
7	6	0																					
110	16	0																					
138	0	0	3	5	5	157	15	5	10	2	9	8	2	9	18	5	6	1,596	0	10	Total	K.	Gross weight 19 cwts., 0 qr. 24lbs.
10	10	0																					
6	0	0																					
154	10	0							2	7	10	...	...	...	2	7	10	2	7	10	Total	K.	Gross weight of the springs, 3lbs., 14 oz.
...	...	...	...	...	...	...	...	...															
7	10	0	0	3	3	7	13	3	0	8	3	0	7	2	0	15	5	77	9	5	Total	K.	
40	0	0	2	0	10	78	0	10	6	5	3	5	1	7	11	6	10	791	13	6	Total	K.	Gross weight, 18 cwts. 3 qrs.
30	0	0																					
6	0	0																					
76	0	0																					
86	0	0	2	13	11	88	13	11	8	6	6	10	10	9	19	1	3	906	0	7	Total	K.	Drawing No. B. 139.
16	0	0	0	0	7	16	0	7	0	1	7	0	1	7	0	3	2	160	7	10	Total	B.	Gross weight 1 cwt.
60	0	0	2	8	1	62	8	1	7	7	7	6	8	0	13	15	7	638	0	3	Total	B.	Drawing No. B 139.

INDIAN STATE RAILWAYS.

Statement showing Actual English and Approximate Indian Rates for articles contracted for and invoiced by the India Office from 13th April 1881 to 31st December 1884.

Name of Vessel.	Contract. No.	Contract. Year.	Contract. Month.	Indent Number.	For what Railway.	Articles.	Details.	Quantity Invoiced. No.	Weight. Ton.	cwt.	qr.	lb.
S.S. "Huzara." 27-8-84.	98	1884	Apl. 25th	5 of '84	Indus Valley ...	Pump, California.	Portable on plank to act as fire engine 2" ...	1	0	6	0	12
							25' 2½" suction hose at 2s.6d. per foot	25				
							100' 2" delivery hose at 2s. 9d. per foot ...	100				
							Tracings 16s. 6d. per set ...	3 sets				
							The pump is to be double-acting and is to have a cylinder 4½" diameter with a piston stroke of 5 inches.					
S.S. "City of Venice." 24-12-84.	107	1884	Sep. 16th	36 of '84	Nagpur-Chhattisgarh.	Ramps ...	Strondley's patent, right hand	12	...	...	...	...
							Strondley's patent, left hand	12				
S.S. "Chusan." 7-1-85.	111	1884	Nov. 7th	85 of '84	Wardha Coal ...	Theodolite, mining.	Archbutt's, with two spare sets of legs and lamp-holders	1	...	...	...	...
S.S. "Altonower." 28-3-85.	111 Extn.	1885	Feb. 23rd	85 of '84	Wardha Coal ...	Ditto :— spare parts of.	Spare set of jointed legs with lamp-holder and marsant dialling lamp ...	1	...	...	...	...

English cost. F. O. B. in England as per contract. £	s.	d.	Freight paid in England. £	s.	d.	Total. £	s.	d.	Indian cost. Freight paid in India. Rs.	A.	P.	Landing charges at Port. Rs.	A.	P.	Total. Rs.	A.	P.	Total cost at port at 2s. the rupee English and Indian charges. Rate. Rs.	A.	P.	Unit.	Port at which landed.	Remarks.
60	0	0	1	4	0	61	4	0	3	11	10	3	0	0	6	11	10	618	11	10	Total	K.	Gross weight 8 cwts., 2 qrs. 12lbs.
38	0	0	0	19	6	38	19	6	3	0	1	2	2	10	5	2	11	394	14	11	Total	B.	Gross weight 1 ton, 1 cwt., 3 qrs., 0 lb.
35	0	0	0	2	7	35	2	7	...			0	3	2	0	3	2	351	7	10	Total	B.	
3	14	0	0	1	9	3	15	9	0	4	1	0	4	0	0	8	1	33	6	1	Total	B.	

NOTES.—1. freight paid is India converted into Indian money at 1s. 7½d. the Rupee.
2. Landing charges have been calculated at Rupees 2 to Rupees 3 per ton.
3. In all cases one per cent. on English cost plus entire sea freight should be added to cover insurance

(Public Works Department Code XIV, vii, 161, as amended by Standing Orders Nos. 62, 75 and 77 of 1884).

(Sd.) T. F. DOWDEN, Colonel, R.E.,
for Director General.

Enclosure to Director General of Railways' Circular No. 24 of 1885.

PUBLIC WORKS SECRETARIAT
No. 3256
LIBRARY

RATE LIST.

C.—WORKSHOP MACHINERY AND HEAVY TOOLS

FOR 1884.

PUBLIC WORKS & BUILDINGS
No. 3256.
LIBRARY

Enclosure to Director General of Railways' Circular No. 24 of 1885.

RATE LIST.

C.—WORKSHOP MACHINERY AND HEAVY TOOLS

FOR 1884.

Enclosure to Director General of Railways' Circular No. 24, dated 24th December 1885.

INDIAN STATE RAILWAYS.

CLASS C.—WORKSHOP MACHINERY AND HEAVY TOOLS.

Statement showing actual English rates for articles contracted for by the India Office from January to December 1884.

CLASS C.—WORKSHOP MACHINERY AND HEAVY TOOLS.

CONTRACTS. No. C.	CONTRACTS. Date.	For what Railway.	No. of Indent.	Article.	Details.	Quantity contracted for.	RATE. F. O. B. in England.	RATE. Unit.	INDIA OFFICE DRAWINGS (IF ANY). Original.	INDIA OFFICE DRAWINGS (IF ANY). Completion.	REMARKS.
							£. s. d.				
314	19th Feb. 1884 ...	Punjab Northern State ...	76 of '83	Bellows ...	Smith's, 36 inches wide. The bellows are to be Allday's patent "Screw pipe" and to be fitted with a nozzle and pipe 3 feet long.	No. 4	13 7 6	Each	...	C 670	
					Tracings (extra)	...	1 17 6	Total	...	...	
329	21st April 1884 ...	Northern Bengal State ...	102 of '83	Ditto ...	Hand moulders'	No. 4	0 7 6	Each	...	...	
331	20th June 1884 ...	Rajputana-Malwa ...	16 of '84	Ditto ...	Smith's, 24 inches wide	„ 1	3 19 0	„	...	C 724-25	
					Ditto, 30 inches wide	„ 1	5 19 0	„	...	...	The details are the same as those given in contract C 314.
					Tracings for the above	...	1 5 0	Total	...	...	
335	17th July 1884 ...	Rajputana-Malwa ...	24 of '84	Ditto ...	Smith's, 30 inches wide	„ 6	6 1 6	Each	...	C 726	
					Tracings (extra)		0 12 6	Set	...	...	
334	4th July 1884 ...	Narayanganj-Dacca-Mymensingh State.	39 of '83	Boiler, steam.	On the Fairbairn Beeley's principle and similar in all respects to the one supplied under contract C 276 for Tirhoot State Railway Extension. The boiler and fittings are to be suitable for a working pressure of 120 lbs. per square inch. The order to include 80 feet additional length of steam and 60 feet of feed-water piping and 6 right angle bends for each size of piping.	No. 1	690 0 0	Total	...	C 742	

CLASS C.—WORKSHOP MACHINERY AND HEAVY TOOLS.

Statement showing actual English rates for articles contracted for by the India Office from January to December 1884—contd.

CONTRACTS. No. C.	CONTRACTS. Date.	For what Railway.	No. of Indent.	Article.	Details.	Quantity contracted for.	RATE. F. O. B. in England.	RATE. Unit.	INDIA OFFICE DRAWINGS (IF ANY). Original.	INDIA OFFICE DRAWINGS (IF ANY). Completion.	REMARKS.
							£. s. d.				
311	19th Feb. 1884 ...	Indus Valley State ...	73 of '83	Boilers, steam; fittings for—	10′ lengths of copper piping 4½″ external diameter and No. 7 B. W. G. thick, with brass flanges, and 200 W. I. bolts, with nuts and washers complete.	No. 30	205 0 0	Total	...	...	Approximate weight 1 ton 13 cwts.
344	26th Nov. 1884 ...	Punjab Northern State ...	55 of '84	Drills, twist.	For wood work, each set ¼″ to 1½″ rising by ⅛″ ...	Sets 2	5 6 3	Set	...		
337	9th August 1884 ...	Narayanganj. Dacca-Mymensigh and Tirhoot State.	39 and 28 of '83	Engines, condensing, compound, vertical.	With pipes, &c., complete. Each engine is to work at a steam pressure of 120 lbs. per square inch, and run at a speed of 100 revolutions per minute. The following duplicate parts are to be supplied with each:— One complete set of spare brasses for both connecting rods of each engine. Two spare sets of phosphor bronze piston rings for each piston. Two spare sets of India-rubber valves for each air pump bucket. Two spare sets of suction and delivery valves for each air-pump.	No. 2	350 0 0	Each	198/L 199/WM and 200/WM		
313	19th Feb. 1884 ...	Indus Valley State ...	92 of '83	Firebox; fittings for—	Stay bolt croppers for firebox stays.	No. 2	5 16 3	Each	...	...	

CLASS C.—WORKSHOP MACHINERY AND HEAVY TOOLS.

Statement showing actual English rates for articles contracted for by the India Office from January to December 1884—contd.

CONTRACTS. No. C.	CONTRACTS. Date.	For what Railway.	No. of Indent.	Article.	Details.	Quantity contracted for.	RATE. F. O. B. in England.	RATE. Unit.	INDIA OFFICE DRAWINGS (IF ANY). Original.	INDIA OFFICE DRAWINGS (IF ANY). Completion.	REMARKS.
							£. s. d.				
347	5th Dec. 1884 ...	Punjab Northern State ...	55 of '84	Furnaces; ironwork for—	Iron-work for case hardening furnace:.. ... The case-hardening furnace fittings are, with the exception of the firebars, to be of wrought-iron and of a size suitable for case-hardening articles up to 36″ long, 20″ wide, and 15″ deep. Three cast iron air-tight boxes of sizes are to be supplied with the furnace fittings.	Set 1	63 12 6	Set	...	C 745	
299	8th Jan. 1884 ...	Cawnpore-Furukhabad State.	11 P. R. of '83.	Gauge, mercurial.	With pump for testing steam pressure gauges, &c., with two Bourdon's standard gauges.	No. 1	108 0 0	Total	C 151	...	
309	16th Feb. 1884 ...	Indus Valley State ...	92 of '83	Gauge, mercurial; fittings for—	Glasses, gauge— 3′ 11⅝″ × ⅝″	No. 6	3 10 0	Total	...	...	
					3′ 8″ × ⅝″	„ 2					
					3′ 5½″ × ⅝″	„ 2					
					3′ 11⅝″ × ⅝″	„ 6					
					4′ × ⅝″	„ 2					
					India-rubber rings	„ 72					

Statement showing actual English rates for articles contracted for by the India Office from January to December 1884—contd.

Contracts. No. C.	Contracts. Date.	For what Railway.	No. of Indent.	Article.	Details.	Quantity contracted for.	Rate. F. O. B. in England.	Rate. Unit.	India Office drawings (if any). Original.	India Office drawings (if any). Completion.	Remarks.
							£. s. d.				
313	21st Nov. 1884 ...	Nagpur-Chhattisgarh State	36 of '84	Lathes, brake.	Screw-cutting and surfacing, 8" centre to take 8' between the centres	1	377 0 0	Total	...	...	
					Tracings (4 to a set)	Sets 3	8 0 0	Set	...	C 754	
					Photographs	6 copies	0 3 0	Copy	...	...	
317	10th March 1884 ...	Indus Valley State ...	92 of '83	Lathes, wheel.	4 feet to take in 8' 3" between the centres.	No. 3	410 0 0	Each	...	C 718	
					The wheel lathe is to be adapted to turn, without torsional strain of axle, a pair of wheels varying from 2' to 4' diameter, on axles from 3' to 8' 3" long.						
346	26th Nov. 1884 ...	Nagpur-Chhattisgarh ...	36 of '84		6' 6" with split drums	„ 2	700 0 0	„	...	...	
		Tirhoot ...	44 of '84		Ditto ditto	„ 1	370 0 0	„	...	...	
324	14th March 1884 ...	Indus Valley State ...	73 of '83	Lubricators, needle; spare parts of—	Glass No. 1	doz. 2	3 8 0	Total	...	...	
					Ditto 2	„ 2					
					Ditto 3	„ 2					
					Ditto 4	„ 2					

INDIAN STATE RAILWAYS.

CLASS C.—WORKSHOP MACHINERY AND HEAVY TOOLS.

Statement showing actual English rates for articles contracted for by the India Office from January to December 1884—contd.

Contracts. No. C.	Contracts. Date.	For what Railway.	No. of Indent.	Article.	Details.	Quantity contracted for.	Rate. F. O. B. in England.	Rate. Unit.	India Office drawings (if any). Original.	India Office drawings (if any). Completion.	Remarks.
							£. s. d.				
340	7th Nov. 1884 ...	Rangoon and Sittang Valley State.	34 of '84	Machine. Briquette.	Yeadon's patent fitted with patent adjustable feed motion, double pressing levers, pug mill with jacket, made suitable for working on the Pitch (Patent Fuel) process, and capable of producing Briquettes at the rate of 4½ to 5 tons per hour. Smallest size	No. 1	280 0 0	Total	...	...	
					Duplicate parts for Ditto	...	25 0 0	„	...	...	
322	10th March 1884 ...	Punjab Northern State ...	76 of '83	Combined mortising and boring.	The machine is to be made suitable for mortising and boring work up to 12 inches deep and 12 inches thick. The frame of the machine is to be a strong hollow casting of box-section carrying two spindles, one for boring and one for mortising.	No. 1	150 10 0	Each	...	C 723/1—2	
322	10th March 1884 ...	Punjab Northern State ...	76 of '83	Combined planing and moulding.	The machine is to be made suitable for planing work up to 12" × 4" thick, and for cutting single or double mouldings of any pattern, or to groove tongue edge, thickness and bead, boarding, &c., at one operation. The machine is to be fitted with top bottom, and two side cutter blocks, so as to work simultaneously on all four sides of the wood.	No. 1	222 10 0	Each	...	C 722/1—2	
342	21st Nov. 1884 ...	Rangoon and Sittang Valley State.	34 of '84	Drilling and tapping, wheel and tyre.	The machine is to be of the description illustrated in Messrs. Kendall and Gent's Catalogue sheet No. 51, and is to be arranged for drilling and tapping holes from ⅝" up to 1 inch diameter and 3 inches deep, in two locomotive carriage or wagon wheels upon their own axles from the inside at the same time.	No. 1	184 0 0	Each	...	...	
327	12th April 1884 ...	Indus Valley State ...	5 of '84	Drilling, pillar band.	The machine is to be complete in every respect and supplied with nine ordinary drills in sizes from 1/16" to 5/16" rising by 1/32.	No. 1	6 0 0	Each	...	...	

Statement showing actual English rates for articles contracted for by the India Office from January to December 1884—contd.

CONTRACTS. No. C.	CONTRACTS. Date.	For what Railway.	No. of Indent.	Article.	Details.	Quantity contracted for.	RATE. F. O. B. in England.	RATE. Unit.	INDIA OFFICE DRAWINGS (IF ANY). Original.	INDIA OFFICE DRAWINGS (IF ANY). Completion.	REMARKS.
							£. s. d.				
301	23rd Jan. 1884 ...	Rajputana-Malwa ...	72 of '83	Machine—*contd.* Forging.	Horsfall's patent No. 2 size to make bolts and nuts from ½" to 1" diameter, rising by ⅛", and rivets ½" to 1" diameter, rising by ⅛", including the tools mentioned in specification and tools for forging ¼" bolts and nuts in addition.	No. 1	600 0 0	Each	...	C 684/1—6	
320	10th March 1884 ...	Punjab Northern and Indus Valley State.	76 of '83 92 of '83	Forging.	Four hammers ... ... Five hammers	„ 1 „ 1	343 0 0 376 10 0	Each „	C 408	C 744/1—3 C 746/1—3	
					The forging machines are to be of the description known as "Ryder's Forging Machine" and is to be made suitable for forging iron or steel from ¼ inch up to 2 inches square.						
308	5th Feb. 1884 ...	Punjab Northern State ...	76 of '83	Grinding, emery.	Special for motion bars of Locomotives ...	No. 1	268 0 0	Each	...	C 693/1—3	
					The frame of the machine is to be a strong hollow casting with a base about 2′ 6″ long and 1′ 9″ wide. The centre of the spindle is to be 33″ from the base. Two emery discs, 24″ diameter and 3″ thick, is to be fitted to the spindle by two nuts and washer plates.						
					Spare discs for ditto 14″ × 2″	„ 4	2 0 0	„	...	C 693/4—8	
302	24th Jan. 1884 ...	Narayanganj-Dacca-Mymensingh State.	39 of '83	Grinding, tool, emery.	The machine is to be of Messrs. Sterne & Co.'s No. 2 size, and to be a strong hollow iron casting. The spindle is to be of steel, not less than 2 inches diameter in the necks and 2½ inches in the body. A countershaft with brackets, &c., is to be supplied with the machine, but not attached to the frame in any way.	No. 3	135 15 0	Total	...	...	

Statement showing actual English rates for articles contracted for by the India Office from January to December 1884—contd.

CONTRACTS. No. C.	CONTRACTS. Date.	For what Railway.	No. of Indent.	Article.	Details.	Quantity contracted for.	RATE. F. O. B. in England.	RATE. Unit.	INDIA OFFICE DRAWINGS (IF ANY). Original.	INDIA OFFICE DRAWINGS (IF ANY). Completion.	REMARKS.
							£. s. d.				
302	24th January 1884 ...	Narayanganj-Dacca-Mymensingh State.	39 of '83	Machine—*contd.* Grinding, tool, emery—*concld.*	Spare discs for the grinding machines are to be 20″ × 2½″. The discs are to be of best consolidated emery suitable for cutting hardened steel tools.	No. 8	32 0 0	Total	...	C 715/1—4	
					Drums 3′ diameter and 12″ wide on the rim ...	„ 3	16 10 0	„	...		
					Belting, extra	...	6 0 0	„	...		
					Drawings and photographs	...	5 5 0	„	...		
326	10th March 1884 ...	Northern Bengal State ...	102 of '83	Grinding, tool, emery; spare discs for—	Consolidated emery discs 12″ × ½″ with 5″ holes ...	No. 6	0 5 3	Each	...	...	
339	2nd October 1884 ...	Indus Valley State ...	45 of '84		Emery, discs, assorted	„ 56	192 9 2	Total	...	...	
316	5th March 1884 ...	Punjab Northern State ...	76 of '83	Grinding, twist drill.	To grind twist and flat drills from ¼" to 1½" diameter. The frame of the machine is to be a strong hollow casting of box section, fitted with Smith and Coomtry's patent appliance for grinding twist drills at one side, and with a plain rest for ordinary tools at the other. The machine is to be supplied with an apparatus and pipes for supplying the discs with water.	No. 1	56 0 0 Less 10 per cent. discount	Each	.. ...	C 667/1—6 and photo.	
306	22nd Jan. 1884 ...	Punjab Northern State ...	76 of '83	Moulding axle box.	.....	No. 1	206 0 0	Each	...	C 716/1—3	

INDIAN STATE RAILWAYS.

CLASS C.—WORKSHOP MACHINERY AND HEAVY TOOLS.

CLASS C.—WORKSHOP MACHINERY AND HEAVY TOOLS.

Statement showing actual English rates for articles contracted for by the India Office from January to December 1884—contd.

Contracts. No. C.	Contracts. Date.	For what Railway.	No. of Indent.	Article.	Details.	Quantity contracted for.	Rate. F. O. B. in England.	Rate. Unit.	India Office drawings (if any). Original.	India Office drawings (if any). Completion.	Remarks.
							£ s. d.				
304	19th Jan. 1884 ...	Punjab Northern State ...	76 of '83	Machine—contd. Paint mixing.	To deliver 1½ cwts. per day	No. 1	6 0 0 Less 15 per cent. discount.	Each	...		
318	10th March 1884 ...	Indus Valley State .	92 of '83	Planing, hand.	The machine is to be used for planing the valve faces of locomotive cylinders in their places and must be supplied with all necessary spanners and 12 assorted tools.	No. 1	47 0 0	Each	...	C $\frac{739}{1-3}$ and photo.	
305	22nd Jan. 1884 ...	Punjab Northern State ...	76 of '83	Polishing, emery.	3' 6" diameter and 6" wide. The machine is to be made suitable for polishing metals. The spindle is to be carried in a strong hollow casting, 30 inches long and 24 inches wide across the base, and 18 inches high to the centre of the spindle.	No. 1	71 0 0	Each	...	C $\frac{691}{1-2}$	
349	9th Dec. 1884 ...	Rajputana-Malwa ...	69 of '84	Punching and shearing; spare parts of.	Spare levers, one for punching and one for shearing, for machine No. 91 supplied by Messrs. Muir & Co., under their contract No. C 151.	No. 2	10 10 0	Total	...		
322	10th March 1884 ...	Punjab Northern State ...	76 of '83	Sawing, dimension.	The machine is to be made suitable for work in a pattern shop, and is to consist of a circular saw-table and two saws 12 inches diameter, mounted on arms on a bracket, revolving on a centre spindle.	No. 1	82 13 0	Each	...	C $\frac{719}{1-3}$ and photo.	
322	10th March 1884 ...	Punjab Northern State ...	76 of '83	Sawing, endless band.	The frame of the machine is to be a hollow box casting with broad base, and of suitable size to take in work up to 4 feet diameter and 16 inches deep.	No. 1	105 10 0	Each	...	...	

FROM

THE DIRECTOR GENERAL OF RAILWAYS,

To

Circular No. 24.

Dated Simla, December 24, 1885.

Received

INDIAN STATE RAILWAYS.

Rate List, class C, "Workshop Machinery and Heavy Tools."

G. C. B. Press, Simla.—No. 727.—D. G. R.—29-12-85.—2,033.

[*General Distribution.*]

Circular No. 24.

FROM

THE DIRECTOR GENERAL OF RAILWAYS,

To

THE MANAGERS, PUNJAB NORTHERN, INDUS VALLEY AND EASTERN BENGAL STATE RAILWAYS.

THE ENGINEERS-IN-CHIEF, JHANSI-MANIKPUR, BELLARY-KISTNA, NAGPUR-BENGAL, BILASPUR-ETAWAH, SIND-PISHIN, NORTHERN SECTION, BOLAN AND SIND-SAGAR STATE RAILWAYS.

THE ENGINEER-IN-CHIEF, FEROZEPORE BRIDGE WORKS.

THE PORT STOREKEEPERS, STATE RAILWAY DEPARTMENT, CALCUTTA, BOMBAY AND KURRACHEE.

Simla, December 24, 1885.

SIR,

I have the honor to forward, for information and guidance, a printed statement showing the actual English rates for C class State Railway Stores "Workshop Machinery and Heavy Tools," contracted for by the India Office from January to December 1884.

2. The percentage that should be allowed for the entire sea-freight has been noted at the end of the statement, and the rates for landing charges for State Railway Stores per ton, at the several ports have been circulated under Director General of Railways' Circular No. 22, dated 16th December 1885. $\frac{4}{5}$th (four-fifths) of the sea-freight should be entered in Indents as payable in England.

I have the honor to be,

SIR,

Your most obedient servant,

T. F. DOWDEN, Colonel, R.E.,

for Director General.

Document accompanying.

Rate List, class C, "Workshop Machinery and Heavy Tools."

The Secretaries to the Governments of Bengal, the North-Western Provinces and Oudh and the Punjab, Public Works Department.
The Secretaries to the Chief Commissioners of the Central Provinces, British Burma and Assam, 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 Biluchistan, Public Works Department.
The Consulting Engineers for Railways, Madras and Bombay.
The Consulting Engineers to the Government of India for Guaranteed Railways, Calcutta, Lahore and Lucknow.
The Agents and Chief Engineers, Bengal Central and Bengal and North-Western Railway Companies, Limited.
The Agent and General Manager, Assam Railways and Trading Company, Limited.

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

T. F. DOWDEN, Colonel, R.E.,

for Director General.

CLASS C.—WORKSHOP MACHINERY AND HEAVY TOOLS.

Statement showing actual English rates for articles contracted for by the India Office from January to December 1884—contd.

CONTRACTS. No. C.	CONTRACTS. Date.	For what Railway.	No. of Indent.	Article.	Details.	Quantity contracted for.	RATE. F. O. B. in England.	RATE. Unit.	INDIA OFFICE DRAWINGS (IF ANY). Original.	INDIA OFFICE DRAWINGS (IF ANY). Completion.	REMARKS.
							£. s. d.				
322	10th March 1884 ...	Punjab Northern State ...	76 of '83	MACHINE—*contd.* Sawing, log (or log frame).	The log frame is to be made suitable for sawing log of teak wood up to 30 inches square and 30 feet long The side standards are to be strong hollow casting of box section, about 15 feet high, 2 feet wide at the top, and 7 feet wide at the bottom, and bolted together by transomes 3 feet 5 inches long and 12 inches deep.	No. 1	482 5 0	Each	...	C $\frac{721}{1-3}$ and photo.	
342	21st Nov. 1884 ...	Nagpur-Chhattisgarh State	36 of '84	Screwing.	To screw and tap from $\frac{1}{4}$ inch to 1 inch. The machine is to be of "Brown's" patent as made by Messrs. Kendall and Gent. The machine is to have 3 speeds $7\frac{3}{4}$", $10\frac{5}{8}$" and $13\frac{1}{2}$" diameter, each step $3\frac{1}{2}$" wide. The machine is to be supplied with two complete sets of taps and dies and one set of master-taps made to Whitworth's standard size.	No, 1	89 10 0	Each	...	C $\frac{752}{1-4}$	
341	8th Nov. 1884 ...	Tirhoot State ...	44 of '84	Shaping.	20" stroke	No. 1	850 0 0	Each	...		
328	21st April 1884 ...	Indus Valley State ...	5 of '84	Shaping, spare materials for—	Vice 14" jaw	„ 1	15 0 0	„	...		
					The vice is to be made suitable for fixing to the table of a shaping machine. The body and jaws are to be of cast-iron, the jaws being 12 inches wide.						
345	26th Nov. 1884 ...	Nagpur-Chhattisgarh State	36 of '84	Slotting.	10" stroke. The machine is to admit an article 4 feet 3 inches diameter and 18 inches deep on the table, and is to be supplied with 48 assorted tools of steel, $1\frac{1}{2}$" × $1\frac{1}{4}$" × 18" long.	No. 1	140 0 0	Each	...		
					Tracings	...	2 0 0	Set	...		
					Photographs	...	0 1 0	Copy	...		

Statement showing actual English rates for articles contracted for by the India Office from January to December 1884—contd.

CONTRACTS. No. C.	CONTRACTS. Date.	For what Railway.	No. of Indent.	Article.	Details.	Quantity contracted for.	RATE. F. O. B. in England.	RATE. Unit.	INDIA OFFICE DRAWINGS (IF ANY). Original.	INDIA OFFICE DRAWINGS (IF ANY). Completion.	REMARKS.
							£. s. d.				
300	22nd Jan. 1884 ...	Punjab Northern State ...	76 of '83	MACHINE—*contd.* Testing. — LOCOMOTIVE BOILERS.	Testing up to 300 lbs. per square inch with gauge complete.	No. 1	79 13 0	Each	...	C 683/1—4 and photo.	
307	22nd Jan. 1884 ...	Punjab Northern State ...	76 of '83	SPRINGS.	Testing springs up to 6 feet long ...	No. 1	117 10 0	Each	...	C 717/1—2 and photo.	
310	16th Feb. 1884 ...	Punjab Northern State ...	76 of '83	Tin-working. — BEADING.	Suitable for swaging iron plate up to No. 20 B. W. G. thick, and at a distance of 12 inches from the edge of the plate.	No. 1	5 0 0	Each	...	...	Approximate weight 1 cwt.
310	16th Feb. 1884 ...	Punjab Northern State ..	76 of '83	BURNING JENNY.	Suitable for turning up and wiring the edges of plates up to No. 20 B. W. G. thick.	No. 1	5 10 0	Each	...	...	3 qrs.
310	16th Feb. 1884 ...	Punjab Northern State ...	76 of '83	CIRCLE CUTTING.	Suitable for cutting discs of sizes from 3 to 18 inches diameter from sheet iron No. 20 B. W. G. thick.	No. 1	10 0 0	Each	...	...	1 cwt., 3 qrs.
310	16th Feb. 1884 ...	Punjab Northern State ...	76 of '83	FOLDING.	Suitable for bending to any desired angle, plates up to 26" wide and No. 20 B. W. G. thick.	No. 1	10 10 0	Each	...	...	2 cwt., 2 qrs.
310	16th Feb. 1884 ...	Punjab Northern State ...	76 of '83	PUNCHING.	To be worked by a lever and eccentric, and to be made suitable for punching holes from ⅛" to 1" diameter in a plate No. 20 B. W. G. thick and 15 inches from the edge.	No. 1	11 0 0	Each	...	...	2 cwt., qrs.

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							£. s. d.				
310	16th Feb. 1884 ...	Punjab Northern State ...	76 of '83	MACHINE—*concld.* Tin-working—*concld.* — ROLLS, PLATE BENDING.	Suitable for bending plates for cylinders and funnels up to 36 inches wide, and No. 16 B. W. G. thick.	Set 1	10 10 0	Set	...	...	Approximate weight 3 cwt.
310	16th Feb. 1884 ...	Punjab Northern State ...	76 of '83	SHEARS, GUILLOTINE.	Suitable for cutting iron plate 36" wide and No. 20 B. W. G. thick.	Set 1	11 10 0	Set	...	...	4 cwt. 2 qrs.
313	19th Feb. 1884 ...	Indus Valley State ...	92 of '83	Tube-cutting.	Internal, to cut tubes 1⅜", 1½", 1⅝", and 1¾", and 1⅞"	No. 1	9 2 6	Each	...		
313	19th Feb. 1884 ...	Indus Valley State ...	92 of '83		Ditto ditto 2", 2⅛" and 2¼' ...	„ 1	7 6 0	„	...		
304	19th Jan. 1884 ...	Punjab Northern State ...	76 of '83	Mill, grinding and mixing red lead.	.....	No. 1	3 15 0 Less 15 per cent. discount.	Each	...		
312	19th Feb. 1884 ...	Indus Valley State ...	92 of '83	Presses, hydraulic, wheel; spare parts of—	Pressure gauge for a pressure up to 2½ tons per square inch.	No. 1	2 10 0	Each	...		
315	19th Feb. 1884 ...	Indus Valley State ...	92 of '83		Pressure gauge, Crosby's patent, for a pressure up to 2½ tons per square inch.	„ 1	4 0 0	„	...		
303	19th Jan. 1884 ...	Punjab Northern State ...	76 of '83	Pyrometer, Gauntlet's patents.	Bailey's make No. 8. 7" vertical dial to indicate 1,500° Fahrenheit with tube 4' long.	No. 1	4 10 0	Each	...		
332	5th July 1884 ...	Cawnpore-Farukhabad State.	21 of '84		Bailey's No. 8' with 7" dial	„ 1	4 12 6	„	...		
320	10th March 1884 ...	Punjab Northern State ...	76 of '83	Saw.	For cutting hot iron. It is to be 36 inches diameter, and suitable for iron up to 7 inches diameter.	No. 1	157 0 0	Each	...	C 733/1—3 and photo.	3 tons.

Statement showing actual English rates for articles contracted for by the India Office from January to December 1884—contd.

CONTRACTS. No. C.	CONTRACTS. Date.	For what Railway.	No. of Indent.	Article.	Details.	Quantity contracted for.	RATE. F. O. B. in England.	RATE. Unit.	INDIA OFFICE DRAWINGS (IF ANY). Original.	INDIA OFFICE DRAWINGS (IF ANY). Completion.	REMARKS.
							£ s. d.				
319	6th March 1884 ...	Indus Valley State ...	92 of '83	Shafting, with brackets.	Brackets	No. 2	15 0 0	Total	...	C 495/No. 6	
					Brackets, wall	„ 23	172 10 0	„	...	Ferro. 2,101	
					Shafting, 3½″ height	Lineal feet 200	165 0 0	„	...	C 495/No. 6	
321	10th March 1884 ...	Punjab Northern State ...	76 of '83		Brackets hanging main shaft. These are to be of such a length that the centre of the shafting is 2 feet 3 inches below the bottom of the beams.	No. 50	7 5 0	Each	...		
321	10th March 1884 ...	Punjab Northern State ...	76 of '83		Drums, cast iron main shaft, 14 of these drums to be of 2 feet, 20 of 3 feet and 16 of 4 feet diameter.	„ 50	5 15 0	„	...		
321	10th March 1884 ...	Punjab Northern State ...	76 of '83		Shafting 3½ inches turned with couplings, complete	Lineal feet 500	290 0 0	Total	...		
					It is to be in 25 lengths, each 20 feet long, and on each end of every length one-half disc coupling is to be securely and permanently keyed with a 1½″ × ½″ steel key.						
					Tracings	1 Set	1 10 0	Set	...		
					Photographs	1 copy	1 0 0	Copy	...		
333	5th July 1884 ...	Narayanganj-Dacca-Mymensingh State.	39 of '83		Bevel wheels	Pair 1	9 0 0	Pair	...		
					Brackets, main shaft, suitable for bolting to a girder 24 inches deep and 22½ inches wide.	No. 19	292 0 0	Total	...	C 740 and C 741	
					Bracket, main shaft, for bevel gearing ...	„ 1	31 10 0	„	...		

Statement showing actual English rates for articles contracted for by the India Office from January to December 1884—contd.

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							£. s d.				
333	5th July 1884 ...	Narayanganj-Dacca-Mymensingh State.	39 of '83		Shafting 3 inches. To be of steel, and on each end of every length one-half of a double cone coupling is to be accurately fitted.	L. ft. 33	18 10 0	Total	...		
338	13th August 1884 ...	Cawnpore-Farukhabad State.	21 of '84	Shafting with brackets—*concld.*	Brackets, hanging, main shaft	No. 10	4 2 6	Each			Approximate weight 4 cwt. each.
					Ditto pillar ditto	„ 13					4 ditto.
					Ditto wall ditto	„ 20					ditto.
					The hanging brackets are to be of such a length that the centre of the shafting is 2 feet below the bottom of the beam.				Nos. 20 and C 694		
					The wall brackets are to be made 2 feet from the centre to wall horizontally, 3 feet deep and 12 inches wide vertically.						
					Shafting 3½ inches turned with couplings, complete; of these 11 to be 14 feet long, and 1 16 feet long.	„ 12	99 0 0	Total		C 743	85 cwt. each.
323	11th March 1884 ...	Indus Valley State ...	73 of '83	Stocks, taps and dies.	Taps, spare ¼ inch	Sets 6	4 6 0	Total	...		
					Ditto ½ „	„ 6					
					Each set to consist of one taper, one second and one plug tap.						
330	21st April 1884 ...	Northern Bengal State ...	102 of '84		Gas thread from ¼″ to 1″	„ 1	20 0 0	„	...		

INDIAN STATE RAILWAYS.

Class C.—Workshop Machinery and Heavy Tools.

Statement showing actual English rates for articles contracted for by the India Office from January to December 1884—contd.

Contracts. No. C.	Contracts. Date.	For what Railway.	No. of Indent.	Article.	Details.	Quantity contracted for.	Rate. F. O. B. in England.	Rate. Unit.	India Office drawings (if any). Original.	India Office drawings (if any). Completion.	Remarks.
							£ s. d.				
330	21st April 1884 ...	Northern Bengal State ...	102 of '84	Stocks, taps and dies—contd.	Taps, spare $\frac{3}{8}$" Whitworth's standard ordinary thread	Sets 3	0 18 0	Total	...		
					Ditto $\frac{5}{16}$" ditto ditto ...	„ 3	0 18 0	„	...		
					Ditto $\frac{1}{2}$" ditto ditto ...	„ 3	1 2 6	„	...		
					Ditto $\frac{3}{4}$" ditto ditto ...	„ 3	1 7 0	„	...		
					Ditto $\frac{5}{4}$" ditto ditto ...	„ 3	1 11 6	„	...		
336	25th July 1884 ...	Rajputana-Malwa ...	24 of '84		Taps, dies and chasers, ordinary thread from $\frac{1}{4}$" to $1\frac{1}{2}$", rising by $\frac{1}{8}$".	„ 3	85 10 0	„	...		
					Teak wood cases for ditto	No. 3	25 10 0	„	...		
					Each set consisting of as follows—						
					£ s. d.						
					1 set taps at 11 3 6 ...						
					1 „ taps wrenches @ 1 16 6 ...						
					1 „ die stocks @ 5 8 0 ...						
					1 „ dies @ 5 17 0 ...						
					1 „ chasers @ 4 5 0 ...						
					Total ... 28 10 0						

INDIAN STATE RAILWAYS.

Class C.—Workshop Machinery and Heavy Tools.

Statement showing actual English rates for articles contracted for by the India Office from January to December 1884—contd.

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							£ s. d.				
348	8th Dec. 1884 ...	Punjab Northern State ...	55 of '84	Stocks, taps and dies—concld.	Taps $\frac{1}{4}$", threads 20 per inch	Sets 12	21 0 0	Total	...	...	
					Do. $\frac{5}{16}$", ditto 18 ditto	„ 12					
					Do. $\frac{3}{8}$", ditto 16 ditto	„ 12					
					Do. $\frac{1}{2}$", ditto 12 ditto	„ 12					
					Do. $\frac{5}{8}$", ditto 11 ditto	„ 6					
					Do. $\frac{3}{4}$", ditto 10 ditto	„ 6					
					Each set of tap is to consist of one taper, one second, one plug, one master tap, and 18 sets of dies, and 18 internal and 18 external chasers to fix in a slide rest.						
348	8th Dec. 1884 ...	Indus Valley State ...	60 of '84		$\frac{1}{4}$" to $1\frac{1}{2}$"; in box complete	Sets 3	35 10 0	Set	...	...	
					The die stocks are to be Whitworth's guide screw stock pattern, made of mild steel, and finished bright. The taps and dies for the ordinary threads are to be screwed to Whitworth's standard size and shape.						

CLASS C.—WORKSHOP MACHINERY AND HEAVY TOOLS.

Statement showing actual rates for articles contracted for by the India Office from January to December 1884—concld.

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							£ s. d.				
325	19th March 1884 ...	Indus Valley State ...	73 of '83	Wheels, &c., &c.	Spare 9″ × 1½″ × 1¾″	No. 12	0 12 6	Each	...	...	
					„ 10″ × 1⅝″ × 1¾″	„ 12	0 12 1	„	...	...	
					„ 12″ × 1¾″ × 1¾″	„ 12	1 3 9	„	...	...	
					„ 12″ × 1½″ × 1⅝″	„ 12	1 0 6	„	...	...	
					„ 12″ × 2¼″ × 1¼″	„ 18	1 10 10	„	...	...	
					„ 14″ × 2¼″ × 1⅝″	„ 12	2 1 2	„	...	...	
326	19th March 1884 ...	Northern Bengal State ...	102 of '83		Consolidated, 7⅝″ × 1½″ with 1⅜″ hole ...	„ 12	0 10 9	„	...	...	
					„ 7¾″ × ½″ with 1⅜″ hole ...	„ 4	0 2 6	„	...	...	

Note 1.—To arrive at the approximate cost of C class stores landed at Port, the following percentages on the original value may be added. No C class stores were imported to the Madras Port.

Calcutta ... 4 per cent.
Bombay ... 4 „
Kurrachee ... 6 „
Rangoon ... 7 „

} ⅘ths freight should be entered in Indents as payable in England.

2.—In all cases one per cent. on English cost, *plus* entire sea-freight, should be added to cover insurance. (Public Works Department Code XIV, VII, 161, as amended by Standing Orders Nos. 62, 75 and 77 of 1884.)

(Sd.) T. F. DOWDEN, Colonel, R.E.,

for Director General.

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