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MADRAS RECORD OFFICE.

Government of Madras.

Public works DEPARTMENT.

C.J.

G.O. No. 474-75 Press —Mis.-

356-359-60

Dated 12-2- 1869.

Not to be folded or roughly handled

Read the following papers:—

No. 356. Docket from the Under Secretary to the Government of India, Public Works Department, (Railway,) to the Secretary to the Government of Madras, Public Works Department, (Railway,) dated Fort William, 5th January 1869, No. $\frac{1,085\ R}{1.}$

The undersigned is directed to invite attention to Public Works Department No. 1,085 R, of the 17th September 1868, and to request that every endeavour may be made to expedite the early transmission of the Accident reports of the Railways under the Government of Madras for the year 1868.

(Signed) E. C. S. WILLIAMS, Major, R. E.,
Under Secretary to the Government of India.

No. 41.

COMMUNICATED to the Consulting Engineer for Railways for early attention.

FORT ST. GEORGE,
20th January 1869.

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

No. 357. From the Consulting Engineer for Railways, to the Secretary to Government, Public Works Department, dated Madras, 21st January 1869, No. 25.

1. I have the honour to acknowledge the receipt of G. O. No. 41, dated the 20th instant, and to forward the Returns of accidents on the Madras* and Great Southern of India Railways during the year 1868.

* South-West and North-West Lines.

2. The Return omits to show the Engine Mileage on the Madras Railway, but the omission will be supplied as soon as the information is received from the Agent.

No. 358. From the Consulting Engineer for Railways, to the Secretary to Government, Public Works Department, dated Madras, 23rd January 1869, No. 30.

1. Adverting to the second paragraph of my letter, No. 25, dated the 21st instant, I have the honour to inform you that I have just received the Engine Mileage on the Madras Railway for the year 1868. It is appended hereto, in order that the blanks in tables Nos. II. and II A. of my accident report may be filled in. Engine Mileage, Madras Railway, 883,612.

2. The total of the Engine Mileage of the Madras and Great Southern of India Railways should be shown in the column set apart for that purpose in Table No. II. The total figure is 1,188,892.

TABLE No. I.

Return of the number and nature of the accidents and the injuries to life and limb which have occurred on all the Madras and Great Southern of India Railways open for traffic during the year 1868.

Date.	Nature and cause of accidents.	Classification of accidents to Trains, &c. — Main heads. I. Collisions.	II. Getting off proper line.	III. Fire.	IV. Running over cattle.	V. Other causes.	Sub-heads. Distinguishing letter of column in Return No. 3.	Passengers. From causes beyond their own control. Killed.	Injured.	From their own misconduct and want of caution. Killed.	Injured.	Servants of Companies or of Contractors. From causes beyond their own control. Killed.	Injured.	From their own misconduct and want of caution. Killed.	Injured.	Other causes. Whilst crossing at level crossings. Killed.	Injured.	Whilst trespassing including suicide. Killed.	Injured.	Miscellaneous. Killed.	Injured.
1868.	*Madras Railway.*																				
15th January...	A Pointsman run over by a train, and died from the injuries	...	...	...	...	...	...	...	..	...	...	...	...	1	...	...	...	...	...	...	...
16th do. ...	A Pointsman in crossing from one side of the line to the other, was struck by an engine, and killed	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
28th do. ...	A Second class passenger employed as a Carriage Examiner was struck down as the train passed at Chinnamapet Station	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...
12th February..	A Brakevan and a Composite carriage, attached to a train, got off the line while being backed into the new lay-bye at Erode	...	1	...	...	...	E.	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Do. do. ...	Three wagons laden with loose cotton caught fire	...	...	1	...	...	A.	...	...	...	...	...	...	...	...	...	...	...	...	...	...
18th do. ...	Inspector's writer and Chunam Contractor were run over by a trolly, former injured and latter killed ...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	...	...	...	...	...	...
19th do. ...	An Assistant Boiler Smith who was carrying some wrought-iron plates had his leg injured by one of them falling on it;	...	...	...	...	...	...	..	...	...	...	...	...	1	...	...	...	...	...	...	...
23rd do. ...	Five wagons laden with loose cotton were entirely destroyed by fire five passengers jumped out of the train while it was in motion, one of whom was killed, and the others more or less injured...	...	...	1	...	...	A.	...	...	1	4	...	...	...	...	...	...	...	...	...	...
29th do. ...	A wagon laden with loose cotton was entirely destroyed by fire, and three other wagons with their contents partially so	...	...	1	...	...	A.	...	...	...	...	...	...	...	...	...	...	...	..	...	...
12th March ...	An Underguard fell off the foot board of one of the carriages at Jollarpett and sustained a compound fracture of the right leg—died from the effects	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
19th do. ...	A wagon containing cotton, on fire ...	...	...	1	...	...	A.	...	...	...	...	...	...	...	...	...	...	...	...	...	...
24th do. ...	Two wagons laden with cotton at Moodanoor, on fire, and one of the empty wagons attached to the train on fire	...	...	1	...	...	A.	...	...	...	...	...	...	...	...	...	...	...	...	...	...
25th do. ...	A large iron casting which was being lowered to the ground fell on the big toe of the right foot of a cooly and wounded it severely...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
27th do. ...	The ropes securing a carriage loaded with cotton on fire. No damage was done	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
31st do. ...	An Underguard injured by being jammed between the buffers of two wagons	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
14th April ...	A high sided open goods wagon laden with jungle posts on fire	...	...	1	...	...	A.	...	...	...	...	...	...	...	...	...	...	...	...	...	...
20th do. ...	A timber truck on fire...	...	...	1	...	...	A.	...	...	...	...	...	...	...	...	...	...	...	...	...	...
25th do. ...	A man run over by a train, and killed.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...
Do. do. ...	A boy run over by a train, and killed	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...

Return of the number and nature of the accidents and the injuries to life, &c.—(Continued.)

Date.	Nature and cause of accidents.	Classification of accidents to Trains, &c. — Main heads. I. Collisions.	II. Getting off proper line	III. Fire.	IV. Running over cattle.	V. Other causes.	Sub-heads. Distinguishing letter of column in Return No. 3.	Passengers. From causes beyond their own control. Killed.	Injured.	From their own misconduct and want of caution. Killed.	Injured.	Servants of Companies or of Contractors. From causes beyond their own control. Killed.	Injured.	From their own misconduct and want of caution. Killed.	Injured.	Other causes. Whilst crossing at level crossings. Killed.	Injured.	Whilst trespassing including suicide. Killed.	Injured.	Miscellaneous. Killed.	Injured.
1868.	*Madras Railway.*—(Continued.)																				
30th April ...	A Native Fitter was jammed between the engine and the tender at Coimbatore Station and killed	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
1st May ...	A covered goods wagon on fire ...	...	...	1	...	...	A.	...	...	...	...	...	...	...	...	...	...	...	...	...	...
3rd do. ...	An empty coke wagon on fire ...	...	...	1	...	...	A.	...	...	...	...	...	...	...	...	...	...	...	...	...	...
10th June ...	A cooly had his right leg fractured while rolling a coil of hemp rope over a rail	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...
17th July ...	A goods train ran into a through siding. The guard irons of the engine coming in contact with the scotch block on the siding, threw the engine off the rails; and the sudden stoppage of the engine caused very considerable damage to two of the wagons, and some damage to eleven other wagons	...	1	...	...	...	J.	...	...	...	...	...	...	...	...	...	...	...	...	...	...
11th August...	A villager was run over by a train from Moodanoor	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...
18th do. ...	A man was run over and killed by a train from Arconum	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...
22nd August...	Two women coolies killed by the falling of a wall	...	...	...	...	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...
28th do. ...	A cooly man was knocked down in consequence of a guy rope breaking, he fell across a rail, and broke the small bone of his arm	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...
29th do. ...	A man was run over by a train when he was crossing the line at Triputty Station.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...
20th Sept. ...	A woman throwing herself between the rails, train run over her... ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...
23rd do. ...	While a native Assistant Boiler Smith was replacing a driving belt on a punching machine at Perambore Works, his right arm was caught between the belt and the shafting and thereby fractured in two places ...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
23rd do. ..	A Native Fireman fell off the brake of the engine and injured	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
28th do. ...	A Watchman knocked down by a train from Bangalore and killed	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
10th Oct. ...	Do. do. from Beypore and killed ...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
15th do. ...	A Cooly boy wounded while shunting at Salt Cotaurs	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
30th do. ...	An old woman run over by a train from Jollarpett, and killed	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
8th Nov. ...	A Porter while loosening the ropes of a wagon loaded with cotton was severaly injured by a bale falling from the top of the wagon... ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...
23rd Dec. ...	A European Fireman jammed between engine and tender and first wagon in consequence of a part of the train becoming detached when in motion, and the front part of the train stopped before the detached part was brought to a stand	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
31st do. ...	A Porter while shunting was jammed between the buffer of one wagon and the side of another, and killed.	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...
	Total ...	...	2	10	...	...	...	..	...	2	4	3	1	8	9	1	...	6	...	...	...

Return of the number and nature of the accidents and injuries to life, &c.—(Concluded.)

Date.	Nature and cause of accidents.	Classification of accidents to Trains, &c.						Passengers.				Servants of Companies or of Contractors.				Other causes.					
		Main heads.					Sub-heads.	From causes beyond their own control.		From their own misconduct and want of caution.		From causes beyond their own control.		From their own misconduct and want of caution.		Whilst crossing at level crossings.		Whilst trespassing including suicide.		Miscellaneous.	
		I. Collisions.	II. Getting off proper line.	III. Fire.	IV. Running over cattle.	V. Other causes.	Distinguishing letter of column in Return No. 3.	Killed.	Injured.	Killed.	Injured.	Killed.	Injured.	Killed.	Injured.	Killed.	Injured.	Killed.	Injured.	Killed.	Injured.
1868.	*Great Southern of India Railway.*																				
8th Jan. ...	A Mile Watchman had his foot injured by the engine of the train passing over it	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...
26th Feb. ...	A man learning shunting fell across the rails while engine was shunting, trucks passed over his body and was killed	...	...	...	...	...	..	...	...	...	...	...	...	1	...	...	...	...	...	...	...
14th March ...	An open truck, consisting chiefly of valuable cloths, on fire	...	...	1	...	...	A.	...	...	...	...	.	...	...	...	...	...	...	...	...	...
2nd April ...	A wagon got off the line. Seven pots were broken thereby. This accident was caused by two cows having been run over by the train	...	...	...	1	..	A.	...	...	...	...	...	...	...	...	...	...	...	...	...	...
1st July ...	An old man threw himself against the engine, severely injured	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...
7th Aug. ...	A Pointsman had his head caught between the buffers, wounded ...	....	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...
29th Sept. ...	A Cooly boy killed while working in a ballast pit by earth falling over him	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...
12th Dec. ...	A Carpenter fell from roof of goods shed at Caroor station, severely injured	...	...	...	...	...	...	..	...	...	...	...	1	...	...	...	...	...	...	...	...
13th do. ...	Two vehicles were thrown off the rails owing to a Pointsman having been confused, and three persons were more or less injured	..	1	...	...	...	J.	...	3	...	...	...	...	...	...	...	...	...	...	...	...
24th do. ...	A woman and child fell from an ordinary open goods wagon, child killed and the woman injured	...	...	...	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...	...	...
27th do. ...	A Native Fireman while coupling carriages was injured	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...
	Total...	...	1	1	1	...	...	1	4	...	...	1	1	1	3	...	...	...	1	...	...

MADRAS,
21*st January* 1869.

(Signed) J. H. M. SHAW STEWART, Major, R. E.,
Consulting Engineer for Railways.

Proceedings of the Madras Government, Public Works Department, 12th February 1869.

TABLE No. I. A.

Abstract of the number and nature of the accidents and of the injuries to life and limb which have occurred on the Railway open for traffic during the year 1868.

Railways.	Mean mileage open.	Classification of accidents to trains, &c. — Main heads: I. Collisions.	II. Getting off proper line.	III. Fire.	IV. Running over cattle.	V. Other causes.	Total.	Passengers — From causes beyond their own control. Killed.	Injured.	From their own misconduct and want of caution. Killed.	Injured.	Servants of Companies or of Contractors — From causes beyond their own control. Killed.	Injured.	From their own misconduct and want of caution. Killed.	Injured.	Other persons — Whilst crossing at level crossings. Killed.	Injured.	Whilst trespassing including suicide. Killed.	Injured.	Miscellaneous. Killed.	Injured.	Total persons of all classes. Killed.	Injured.	Killed and injured.
Madras.																								
Madras South-West and North-West Lines 1867.	645	1	3	2	1	...	7	...	...	2	4	5	11	1	9	...	...	1	...	...	...	9	12	21
Do. 1868.	656	...	2	10	...	...	12	...	...	3	...	1	1	8	9	1	...	6	...	...	...	20	14	34
Great Southern of India, 1867	135½	1	1	...	...	1	3	...	...	1	...	1	1	3	...	...	...	1	1	...	...	7	1	8
Do. 1868.	168	...	1	1	1	...	3	1	4	...	...	1	1	1	3	...	...	...	1	...	...	3	9	12

(Signed) J. H. M. SHAW STEWART, Major, R. E.,
Consulting Engineer for Railways.

MADRAS,
21st January 1869.

Proceedings of the Madras Government, Public Works Department, 12th February 1869.

TABLE No. II.

Numerical Abstract of accidents to persons of all classes on the Madras Railway open for traffic during 1868.

	Madras. Madras. Killed.	Madras. Madras. Injured.	Madras. Great Southern of India. Killed.	Madras. Great Southern of India. Injured.	Total. Killed.	Total. Injured.	Total. Killed and Injured.
PASSENGERS.							
From causes beyond their own control, viz.							
From accidents to trains	..	...	...	...	...	...	...
From other causes	...	...	1	4	1	4	5
Total number ...	...	...	1	4	1	4	5
Per million of passengers	...	...	1·272	5·089	...	...	...
From their own misconduct or incaution ...	2	4	...	...	2	4	6
Per million of passengers	·942	1·884					
Total from all causes ...	2	4	...	...	2	4	6
Servants of Companies and of Contractors.							
From causes beyond their own control ...	3	1	1	1	4	2	6
From their own misconduct or incaution ...	8	9	1	3	9	12	21
Total from all causes ...	11	10	2	4	13	14	27
Other persons.							
Crossing at level crossings	1	...	...	...	1	...	1
Trespassers including suicide	6	...	...	1	6	1	7
Miscellaneous	...	...	...	...	...	...	...
Total from all causes ...	7	...	...	1	7	1	8
Grand total of all classes from all causes.	20	14	3	9	23	23	46
Mean length of Railway open during the year (miles.)		656		168			824
Number of passengers carried		2,122,527		7,85,972			2,908,499
Engine mileage (Goods and Passengers)...		.....		3,05,280		.....	
Number of servants employed		8,020		1,635			9,655

MADRAS,
21st January 1869.

(Signed) J. H. M. SHAW STEWART, Major, R. E.,
Consulting Engineer for Railways.

TABLE No. IIA.

Classified abstract of Accidents to Servants of Companies and of Contractors during the year 1868.

	Madras.			
	Madras Railway.		Great Southern of India Railway.	
	Killed.	Injured.	Killed.	Injured.
I. From causes beyond their own control, viz.:—				
(a) *Servants employed on trains in motion.*				
1. Collisions	.....	.....	.....	.....
2. Trains running into sidings or off their proper line through points being wrong	.....	.....	.....	.....
3. Trains or engines getting off rails	.....	.....	.....	.....
4 Accidents arising from defects in rolling stock	.....	.....	... ..	.....
5. Miscellaneous	.....	.....	.....	.....
(b) *Servants employed in Stations or on Line.*				
1. Run over or crushed between buffers while coupling or uncoupling carriages or wagons.	.....	.....	... ..	.....
2. Run over while shunting trains	.....	.....	.....	.....
3. Run over or struck while properly performing other duties	1	.....	.....	.....
4. Miscellaneous	2	1	1	1
Total ...	3	1	1	1
II. From incaution or misconduct.				
(a) *Servants employed on trains in motion.*				
1. Collisions...	.....	.....	.....	.....
2. Attempting to get upon, off, or falling from engines or carriages in motion	1	1	.....	.....
3. Miscellaneous	.....	1	.....	.....
Total ...	1	2	.....	.....
(b) *Servants employed in Stations or on Line.*				
1. Crushed between buffers or run over while coupling or uncoupling carriages or wagons ...	1	.....	.....	2
2. Run over or struck while shunting trains ...	1	1	1	.....
3. Run over or struck while incautiously crossing, standing, or walking upon Railway	4	.....	.....	1
4. Miscellaneous	1	6	.....	.....
Total ...	7	7	1	3
Grand Total ...	11	10	2	4
Engine mileage	.....		305,280	
Number of servants employed	8,020		1,635	

Madras,
21st *January* 1869.

(Signed) J. H. M. SHAW STEWART, Major, R. E.,
Consulting Engineer for Railways.

Proceedings of the Madras Government, Public Works Department, 12th February 1869.

TABLE No. III.

Numerical abstract of Accidents to Trains, &c., on open lines of Railway in the Madras Presidency, during 1868, *showing their causes, and the number of persons killed and injured thereby.*

Nature of accidents.	Number of accidents.	Number of passengers. Killed.	Number of passengers. Injured.	Number of servants of Companies or of Contractors. Killed.	Number of servants of Companies or of Contractors. Injured.	Other persons not passengers or servants of Companies or of Contractors. Killed.	Other persons not passengers or servants of Companies or of Contractors. Injured.	Total number of servants, passengers, and others. Killed.	Total number of servants, passengers, and others. Injured.	Classification of Accidents. Defects in rolling stock or road and works. Rolling stock. B.	Road and works. C.	Fences. D.	Neglect or defects in management or discipline. Locomotive Department. E.	Guard. F.	Traffic Department. G.	Working signals and telegraph. H.	Pointsmen. I.	Gatesmen and Police. K.	Workmen employed on line. L.	Improper interference by persons not under the control of the Company. M.	Malicious acts of persons not under the control of the Company. N.	Apparently unavoidable or not accounted for. A.
Madras Railway, miles open 656.																						
I. Collisions	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
II. Getting off proper line...	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
III. Fire	10	1	4	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	10
IV. Running over cattle	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
V. Other causes	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Total...	12	1	4	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	10
Great Southern of India Railway, miles open 168.																						
I. Collisions	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
II. Getting off proper line.	1	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
III. Fire	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
IV. Running over cattle ...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1
V. Other causes	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Total...	3	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	2

Madras,
21st *January* 1869.

(Signed) J. H. M. SHAW STEWART, Major, R. E.,
Consulting Engineer for Railways.

TABLE No. III. A.

Numerical Abstract of accidents to Passenger Trains on Railways open for Traffic during 1868, *showing their causes, and the number of Passengers killed and injured thereby.*

Railways and nature of accidents.	Number of accidents.	Number of passengers.		Number of servants of Companies and of Contractors.		Other persons not passengers or servants of Companies or of Contractors.		Total number of servants, passengers and others.		Classification of Accidents.												Improper interference by persons not under the control of the Company.	Malicious acts of persons not under the control of the Company.
		Killed.	Injured.	Killed.	Injured.	Killed.	Injured.	Killed.	Injured.	Apparently unavoidable or not accounted for.	Defects in Rolling stock, or road and works.			Neglect or defects in management or discipline.									
											Rolling stock.	Road and works.	Fences.	Locomotive Department.	Guard.	Traffic Department.	Working signals and telegraph.	Pointsmen.	Gatesmen and Police.	Workmen employed on line.		
										A.	B.	C.	D.	E.	F.	G.	H.	J.	K.	L.	M.	N.
Madras South-West and North-West Lines 656 miles open.																						
III Fire	1	1	4	...	...	...	...	1	4	1	...	...	...	...	...	...	...	...	...	...	...	.....
Great Southern of India Railway 168 miles open...																						
II Getting off proper line.	1	...	3	...	...	...	...	...	3	...	...	...	...	...	...	...	...	1	...	...	...	...

MADRAS,
21st *January* 1869.

(Signed) J. H. M. SHAW STEWART, Major, R. E.,
Consulting Engineer for Railways.

TABLE No. IV.

Showing the total number of accidents to persons of all kinds, and to trains, &c., in the Madras Presidency during the year 1868.

Presidency.	Main length of Railway open.	Total number of train miles.	Train miles per mile open.	Total number of accidents to trains, &c., of all kinds.	Total number of passengers carried.	Average number of Passengers per mile.	Passengers.		Servants.				Trespassers, &c.		Total.		
									Beyond.		Within.						
									Own Control.								
							Killed.	Injured.	Killed.	Injured.	Killed.	Injured.	Killed.	Injured.	Killed.	Injured.	Killed and injured.
Madras... 1868	824	1,720,125	2,088	15	2,908,499	3,530	3	8	4	2	9	12	7	1	23	23	46
Madras... 1867	780½	1,597,385	2046	10	2,495,787	3,198	...	...	6	12	5	1	5	...	16	13	29

MADRAS,
21st *January* 1869.

(Signed) J. H. M. SHAW STEWART, Major, R. E.,
Consulting Engineer for Railways.

Proceedings of the Madras Government, Public Works Department, 12th February 1869.

No. 359. ORDER THEREON, 12th February 1869, No. 474.

RAILWAY, No. 26.

Ordered that these Statements be forwarded to the Government of India:—

(Here enter No. 475, dated 12th February 1869.)

(True Extract.)

(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

Exd. S. T. Augustin.

PUBLIC WORKS DEPARTMENT,
FORT ST. GEORGE, 12*th February* 1869.

No. 475.

No. 360.

To

THE SECRETARY TO THE GOVERNMENT OF INDIA,
PUBLIC WORKS DEPARTMENT.

SIR,

RAILWAY, No. 27.

With reference to your letter of the 17th September 1868, No. 1,085 R, and to your docket of the 5th January 1869, No. $\frac{1,085\ R}{1}$, I am directed to forward herewith a letter from the Consulting Engineer for Railways giving cover to the Returns of Accidents on the Madras and Great Southern of India Railways during the year 1868.

I have the honor to be,
Sir,
Your most obedient servant,
(Signed) CHARLES A. ORR, Colonel, R. E.,
Secretary to Government.

Exd. S. T. Augustin.

Govt. of {1869} Madras.

PUBLIC WORKS.

To

THE SECRETARY TO THE GOVERNMENT

OF INDIA.

Dated February, 12th.

Recd. Encl.

G. O., 12th February 1869, *No.* 475.

FEBRUARY.

No. 360

Railway Accidents.—Returns of Accidents on the Railways in the Madras Presidency during 1868, forwarded to the Government of India.

Table No I A

Abstract of the number and nature of the accidents and of the injuries to life and limb which have occurred on the Railways open for traffic during the year 1868.

Presidency.	Mean mileage open.	Railways.	Classification of accidents to Trains, &c.						Passengers				Servants of Companies or of Contractors				Other persons.						Total persons of all classes.		
			Main heads.						From causes beyond their own control.		From their own misconduct and want of caution.		From causes beyond their own control.		From their own misconduct and want of caution.		Whilst crossing at level crossings.		Whilst trespassing including suicide.		Miscellaneous				
			I Collisions	II Getting off proper line.	III Fire	IV Running over cattle.	V Other causes	Total	Killed	Injured	Killed	Injured	Killed	Injured	Killed	Injured	Killed	Injured	Killed	Injured	Killed	Injured	Killed	Injured	Killed and Injured.
Madras	645	Madras South-West and North West Lines	1	3	2	1	"	7	"	"	"	"	5	11	2	1	"	"	1	"	1	"	9	12	21
	656	Do 1868	"	2	10	"	"	12	"	"	2	4	3	1	8	9	1	"	6	"	"	"	20	14	34
	135½	Great Southern of India 1867	1	1	"	"	1	3	"	"	"	"	1	1	3	"	2	"	1	"	"	"	7	1	8
	168	Do 1868	"	1	1	1	"	3	1	4	"	"	1	1	1	3	"	"	"	1	"	"	3	9	12

Madras
21st January 1869

V. Munt Stewart Major R.E.
Consulting Engineer for Railways

Railway Accidents.—Returns of Accidents on the Railways in the Madras Presidency during 1863, forwarded to the Government of India.

A 1

In a letter from the Consulting Engineer for Railways to the Secy to Govt P. W. Dept 1/4 of 24th Jany/69 in the 25.

Table I A.

Pro 29/8/69.

Pros 11th Feby 69 No 357

Table No 11

Numerical Abstract of accidents to persons of all classes on the Madras Railway open for traffic during 1868.

10.Y

	Madras				Total		
	Madras		Great Southern of India				
	Killed	Injured	Killed	Injured	Killed	Injured	Killed and Injured
Passengers.							
From causes beyond their own control, viz:							
From accidents to trains	"	"	"	"	"	"	"
From other causes	"	"	1	4	1	4	5
Total number	"	"	1	4	1	4	5
Per million of passengers	"	"	1·272	5·089	"	"	"
From their own misconduct or incaution	2	4	"	"	2	4	6
Per million of passengers	·942	1·884					
Total from all causes	2	4	"	"	2	4	6
Servants of Companies and of Contractors.							
From causes beyond their own control	3	1	1	1	4	2	6
From their own misconduct or incaution	8	9	1	3	9	12	21
Total from all causes	11	10	2	4	13	14	27
Other persons.							
Crossing at level crossings	1	"	"	"	1	"	1
Trespassers including suicide	6	"	"	1	6	1	7
Miscellaneous	"	"	"	"	"	"	"
Total from all causes	7	"	"	1	7	1	8
Grand total of all classes from all causes	20	14	3	9	23	23	46
Mean length of Railway open during the year (miles)	656		168		824		
Number of Passengers carried	2,122,527		785,972		2,908,499		
Engine mileage (Goods and Passengers)			305,280				
Number of servants employed	8020		1,635		9,655		

Madras
21st January 1869

V. Rumleweard Major RE
Consulting Engineer for Railways

In a letter from the Consulting Engineer for Railways to the Secy. to Govt. P. W. Dept. of 21st Jany/69 in No 25-

Table II A-

P W 298/69

Trans. 11th Feby 69 Ln L 359

In a letter from the Consulting Engineer for Railways to the Secy. to Govt. P. W. Dept. of 21st Jany/69 in No 25-

Table No II.

P W 298/69

Trans. 11th Feby 69 Ln L 359

Table No. II A

Classified abstract of accidents to servants of Companies and of Contractors during the year 1868

	Madras.			
	Madras Railway		Great Southern of India Railway	
	Killed	Injured	Killed	Injured
I Arising from causes beyond their own control, viz:				
(a) Servants employed on trains in motion				
1 Collisions	"	"	"	"
2 Trains running into sidings or off their proper line through points being wrong	"	"	"	"
3 Trains or engines getting off rails	"	"	"	"
4 Accidents arising from defects in rolling stock &c.	"	"	"	"
5 Miscellaneous.	"	"	"	"
(b) Servants employed in Stations or on Line.				
1 Run over or crushed between buffers while coupling or uncoupling carriages or waggons.	"	"	"	"
2 Run over while shunting trains.	"	"	"	"
3 Run over or struck while properly performing other duties	1	"	"	"
4 Miscellaneous.	2	1	1	1
Total	3	1	1	1
II Arising from incaution or misconduct				
(a) Servants employed on trains in motion				
1 Collisions.	"	"	"	"
2 Attempting to get upon or off, or falling from engines or carriages in motion	1	1	"	"
3 Miscellaneous.	"	1	"	"
Total	1	2	"	"
(b) Servants employed in Stations or on Line				
1 Crushed between buffers or run over while coupling or uncoupling carriages or waggons.	1	"	"	2
2 Run over or struck while shunting trains.	1	1	1	"
3 Run over or struck while incautiously crossing, standing or walking upon Railway	4	"	"	1
4 Miscellaneous	1	6	"	"
Total	7	7	1	3
Grand Total	11	10	2	4
Engine mileage	"		305,280	
Number of servants employed	8,020		1,635	

Madras
21st January
1869

Thos Stewart Major RE
Cons: Engr: for Railways

Table No III

Numerical Abstract of accidents to Trains, &c., on open lines of Railway in the Madras Presidency, during 1868, showing their causes, and the number of persons killed and injured thereby.

Nature of accidents	Number of accidents	Number of Passengers killed	Number of Passengers injured	Number of servants of Companies killed	Number of servants of Companies injured	Other persons not passengers or servants of Companies or of Contractors killed	Other persons not passengers or servants of Companies or of Contractors injured	Total number of servants of Companies and others killed	Total number of servants of Companies and others injured	Classification of accidents: Attributable entirely or mainly to the Company or their servants	Classification of accidents: Defects in rolling stock or road and works	Classification of accidents: Neglect or defects in management or discipline									Unforeseen interference by persons not under the control of the Company.	Malicious acts of persons not under the control of the Company.
										A	B. Rolling Stock	C Road and works	D Fences	E Unpunctual Despatch	F Guards	G Signalling Despatching	H Working with Pts and Signals	J Drivers	K Gatekeepers & Police	L Workmen unskilled or Other	M	N
Madras Railway - miles open 656.																						
I Collisions	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"
II Getting off proper line	2	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"
III Fire	10	1	4	"	"	"	"	"	"	10	"	"	"	1	"	"	"	1	"	"	"	"
IV Running over cattle	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"
V Other causes	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"
Total	12	1	4	"	"	"	"	"	"	10	"	"	"	1	"	"	"	1	"	"	"	"
Great Southern of India Ry Miles open 168.																						
I Collisions	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"
II Getting off proper line	1	"	3	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"
III Fire	1	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	1	"	"	"	"
IV Running over cattle	1	"	"	"	"	"	"	"	"	1	"	"	"	"	"	"	"	"	"	"	"	"
V Other causes	"	"	"	"	"	"	"	"	"	1	"	"	"	"	"	"	"	"	"	"	"	"
Total	3	"	3	"	"	"	"	"	"	2	"	"	"	"	"	"	"	1	"	"	"	"

Madras
21st January 1869.

Thomas Mercant Major R.E.
Consulting Engineer for Railways.

In a letter from the
Consulting Engineer for
Railways to the Secy to
Govt of P. W. Dept of 21st
Decr /69 in No 25.

Table No III.

P.W 298/69

Rep. 1st Feby 69 Ln d 357

13X

Table N° III A

Numerical Abstract of accidents to Passenger Trains on Railways open for traffic during 1868, showing their causes and the number of Passengers killed and injured thereby.

Railways and nature of accidents	Number of accidents	Number of Passengers killed	Number of Passengers injured	Number of servants of Companies and of Contractors killed	Number of servants of Companies and of Contractors injured	Other persons not passengers or servants of Companies or of Contractors killed	Other persons not passengers or servants of Companies or of Contractors injured	Total number of servants of Companies and Passengers killed	Total number of servants of Companies and Passengers injured	Apparently unavoidable or not accounted for.	Classification of accidents: Defects in rolling stock or road and works	Neglect or defects in management or discipline.								Improper interference by persons not under the control of the Company.	Malicious acts of persons not under the control of the Company.
											Rolling Stock	Road and works	Fences	Locomotive & Departments	Guards	Traffic Establishment	Working of Telegraph	Pointsmen	Gatesmen and Police	Workmen employed otherwise	
											A	B	C	D	E	F	G	H	J	K	L	M	N
Madras South West and North West Lines 656 miles open																							
III Fire	1	1	4	"	"	"	"	1	4	1	"	"	"	1	"	"	"	"	"	"	"	"	"
Great Southern of India Railway 168 miles open																							
II Getting off proper line	1	"	3	"	"	"	"	"	3	"	"	"	"	"	"	"	"	1	"	"	"	"	"

Madras
21st January 1869

Thos Munro Major RE
Consulting Engineer for Railways

No 11 Letter from the Consulting Engineer for Railways to the Govt of Madras dated 25th Jany 1869

Table No 3

Table No IV

Showing the total number of accidents to persons of all kinds, and to trains, &c in the Madras Presidency during the year 1868.

Presidency		Main length of Railway open	Total number of train miles	Train miles per mile open	Total number of accidents to persons of all kinds	Total number of passengers conveyed	Average number of passengers per mile	Passengers		Servants Beyond Limits of Control		Servants Within Limits of Control		Trespassers &c		Total		
								Killed	Injured	Killed	Injured	Killed	Injured	Killed	Injured	Killed	Injured	Killed and Injured
Madras	1868	824	1,720,125	2,088	15	2,908,499	3,530	3	8	4	2	9	12	7	1	23	23	46
	1867	780½	1,597,385	2,046	10	2,495,787	3,198	"	"	6	12	5	1	5	"	16	13	29

Madras
21st January 1869

E. Mountstuart Major R.E.
Consulting Engineer for Railways

CONSULTING ENGINEER'S OFFICE,

Railway Department.

No. 25.

From Major W. H. M. Shaw-Stewart RE
Consulting Engineer for Railways,

To Colonel C. A. Orr RE

Secretary to Government,
Public Works Department,
Fort Saint George

SIR,

I have the honour to acknowledge the receipt of G. O. No. 41 dated the 20th Instant and to forward the Returns of accidents on the Madras and Great Southern of India Railways during the year 1868.

× South West and North West Lines.

The Return omits to show the Engine mileage on the Madras Railway, but the omission will be supplied as soon as the information is received from the Agent.

I have the honour to be
Sir
your most obedient Servant
W. H. M. Shaw-Stewart Major RE
Consulting Engr. for Railways

Madras
21st January 1869

I have a letter from the Consulting Engineer for Railways to the Govt P. W. Dept of 29th January No 25 forwarding Returns of accidents on the Madras & South Mahratta Railways for the year 1868.

Madras 29th Jan 1869

Lable 5th W

Read 1st Feby 1869

P.W. 1869 Dept. Proc. of Govt for February (6)

RAILWAY DEPARTMENT.

No 298

From

The Consulting Engineer
for Railways,

To

The Secretary to Government,
Public Works Department,
Fort Saint George.

Dated 24th January 1869.
Received 23d

No. 25.

Encls: 75

No 4744675-11: Febry 69

Forwarding the Returns of accidents on the Madras & G.I.P. Railways during the year 1868.

No 357

C. 27 Jany 1869 Q2-8 Feby

Railway.

General No. of letter replied to _____

Date of Despatch _____

Comm[d] to the Engr Supt Railways for early attention.

to Engr for Railways

No 356

20 Jany 1869

C. 27 Jany 1869 R. 8 July

(6) P.W. Dept. Rly Branch 1869
No. 1085 R. No 2/0

GOVERNMENT OF INDIA.

PUBLIC WORKS DEPARTMENT.

Railway.

To The Secy to Govt Madras P.W. Deptt (Railway)

FORT WILLIAM, the 5th January 1869

Sir,

I am directed to invite attention to P.W. Dept No 1085 R. of the 17th September 1868 and to request that every endeavour may be made to expedite the early transmission of the Accident Reports of the Railways under the Govt of Madras for the year 1868.

Nos 474 & 475 H. & S. Bks &c

I have &c

E. Wilkinson Major R.E.

Under Secy to the Govt of India

With an order

Railway Department.

CONSULTING ENGINEER'S OFFICE,

No. 30.

From Major J. H. M. Shaw Stewart R.E.
Consulting Engineer for Railways,

To Colonel C. A. Orr R.E.
Secretary to Government,
Public Works Department,
Fort Saint George

Sir,

Adverting to the second paragraph of my letter No. 25 dated the 21st Instant, I have the honour to inform you that I have just received the Engine mileage on the Madras Railway for the year 1868. It is appended hereto, in order that the blanks in Table No. II and II A of my accident report may be filled in.

Engine mileage. Madras Railway 883,612.

2. The total of the Engine mileage of

of the Madras and Great Southern Railways should be shown in the column set apart for that purpose in Table No. II. The total figure is 1,188,892.

I have the honour to be,
Sir,
Your most obedient Servant.

Madras
23rd January
1869

Lieutenant Colonel Major R.E.

Comm: Engr for Rlys.

Rec'd Feby 1869

No 474

Proceedings of the Madras Government
Public Works Department
Railway Branch
Dated the 11th January 1869

From the Under Secy: to Govt: Public Works Dept: Madras
To Consg: Engr: for Railways — P.W.D. No 1185-68 dy 5th Jany 69.
" Do — Do — (" No: 25 dy 21st Jany 69)
" Do — Do — (" No 30 dy 23rd Do)

Railway Staff Matters

Submitting the Remarks of the Consulting Engineer for Railways on his Proceedings Nos 25 dy 21st & 30 dy 23rd Instant.

Rec'd 12/3/69

Sir,

With reference to your letter No 25 dy 21st Instant and to your address No 30 dy 23rd Instant, I have the honor to forward herewith a letter, No 1185-68, dated 5th instant, from the Commissioner of Public Works, submitting his remarks on your Proceedings above quoted.

I have &c.

(6)

Rec'd 1869 Dept: Feby
Rec'd Govt for February

RAILWAY DEPARTMENT.

No 3.45.

From

The Consulting Engineer
for Railways,

To

The Secretary to Government,
Public Works Department,
Fort Saint George.

Dated 25th January 1869.
Received 25

No. 30-

No 474 & 475 - 11 Feby 69:

Furnishing the information regarding Supine Mileage as stated in his report No 25 of the 21st Instant. -

No 358

C. 27 January 1869 R 8 Feby

Ghos 210-298 & 315

on the Madras and Great Southern of India Railways during the year 1868.

Govt. of India

PUBLIC WORKS.

To The Secretary to the Govt. of India

Dated

Rec'd. Ans'd 7

G. O. 11 Feby 1869, No. 474 & 475

Nos. 356 p 359 & 360

Railway Accidents - Passing Rs on the Returns of Accidents on the Madras & S. I. Railways during 1868.

Railway Accidents - Returns of Accidents on the Railways on the Madras & Cochidang during 1868, forwarded to the Government of India.

14

Disp'd 12/2/69 with twenty five Cobies of G. O. No 474 of 1869

c. 27 Jany 1869 Rs 8 Fee