Govt. of {1891} Madras.

JUDICIAL.

No. 1898 wa/10 "July 1891

Communicated to Supdg. Engrs concerned for information.

(Sd) J. P.
W

Issued

Recd. Encl.

G.O., 25th June 1891, No. 1246.

JUNE.

Indian Factories Act.

Reviewing the reports on the working of the — in the Presidency during the year 1890.

S. Es I, II, & V circles.

GOVERNMENT OF MADRAS.

JUDICIAL DEPARTMENT.

READ—the following papers:—

From the District Magistrate,		North Arcot,	27th	January	1891,	No. 85.
,,	,,	Salem,	7th	March	,, ,,	432.
,,	,,	Tanjore	—	,,	,, ,,	385.
,,	,,	Chingleput,	1st	April	,, ,,	143.
,,	,,	Madura,	3rd	,,	,, ,,	23.
,,	,,	Trichinopoly,	3rd	,,	,, ,,	30-2.
,,	,,	Kurnool,	11th	,,	,, ,,	1534.
,,	,,	Cuddapah,	12th	,,	,, ,,	25, Extra.
,,	,,	South Canara,	13th	,,	,, ,,	1403.
,,	,,	Anantapur,	15th	,,	,, ,,	——.
,,	,,	Nellore,	17th	,,	,, ,,	521.

ABSTRACT.—Stating that there were no factories at work in the districts during the year 1890.

From L. C. MILLER, Esq., Acting Joint Magistrate, Godávari District, to the Acting Magistrate, Godávari District, dated Rajahmundry, 9th January 1891, No. 15.

I have the honour to submit the following report on the working of the Factories Act XV of 1881 in my division during 1890.

2. The Government Workshop at Dowlaishweram is the only factory coming within the scope of the Act. It was inspected by me three times during the year. Extracts from the Register B, containing my remarks at the time of inspection, are enclosed.

3. There was proper ventilation, and everything was in good order.

4. All dangerous machinery was properly fenced.

5. On the morning of the 28th November 1890, a cooly named Pedrazu Perigadu, a Madiga, aged 20, received an injury while putting on a belt on a pulley. Both bones of his right forearm were broken. The place and manner of the accident were shown me at my inspection on 1st December 1890. The accident was due to the man's own carelessness, but the operation of putting a band over a pulley in motion is doubtless somewhat dangerous.

6. The working hours were, as usual, from 6 A.M. to 12 noon and from 2 to 5 P.M.

7. The statement prescribed by Government in its Order, No. 1760, dated 7th July 1885, is enclosed.

ENCLOSURES.

STATEMENT showing the number of persons employed at the end of the year 1890 in the Government Workshop, Dowlaishweram.

Name of the District.	Name of the Factory.	Number of persons employed at the end of the year 1890.				Machinery whether fenced or not.	Ventilation and sanitation.
		Adults.		Children.			
		Males.	Females.	Males.	Females.		
Godávari District ..	Government Workshop ..	145 *	3 †	40 ‡	..	Fenced ..	Good ..

* 21 Fitters.
3 Fitters' boys.
24 Lascars
32 Carpenters.
14 Moulders.
19 Smiths.
16 Hammer men.
2 Painters.
3 Carpenters' boys.
10 Coolies.
1 Scavenger.
145
† 1 Scavenger.
2 Coolies.
3
‡ 3 Fitters' boys.
8 Carpenters' boys.
6 Apprentices.
5 Coolies.
18 Bellows boys.
40

FORM B.

REGISTER of inspections of factories under Rule 9 of rules made under section 18 of the Indian Factories Act, 1886. Joint Magistrate's Division, Godávari District, for 1890.

Number of Factory in Register A.	Name or description of Factory.	Name of occupier or manager.	Date of inspection.	Number of persons at work on date of inspection.				Remarks.
				Adults.		Children.		
				Males.	Females.	Males.	Females.	
1	Government Workshop, Dowlaishweram.	Government.	1890. 12th August..	143	..	..	..	Of the boys mustered, none appeared to be under twelve. The notices and copy of rules required were duly exhibited. Dangerous machinery, as usual, properly fenced. (Sd.) L. C. MILLER, *Ag. Joint Magistrate.*
			30th September	169	..	..	..	Machinery securely fenced, ventilation, &c., good. No children were working. (Sd.) L. C. MILLER, *Ag. Joint Magistrate.*
			1st December.	201	..	..	..	Machinery fenced as usual. No children. (Sd.) L. C. MILLER, *Ag. Joint Magistrate.*

No. 5.

Submitted to Government with the enclosures.

2. The workshop at Dowlaishweram is the only factory in the district.

COCANADA,
22*nd January* 1891.

(Signed) L. MOORE,
Ag. District Magistrate.

From J. T. LEVER, Esq., General Deputy Magistrate, Goomsur Division, to the District Magistrate, Ganjam, dated Russellkonda, 2nd February 1891, Disposal No. 36-Mag.

I have the honour to submit my report on the working of the Aska Sugar Factory belonging to Messrs. Minchin Brothers and Co., for the calendar year 1890.

2. During the year under report the factory was thrice inspected—

Firstly, by M.R.Ry. A. Suryanarayana Naidu Garu, General Deputy Collector, on the 31st March 1890.

Second and thirdly, by me, on the 30th September and 17th December 1890, respectively.

3. No children under the age of 12 years were employed.

4. The work people are divided into two classes—the first class consisting of mechanics who work by day only, from sunrise to sunset, with an interval of two hours, while the second class work both by day and by night in the sugar manufacture. The latter class is divided into two equal sets, who work alternately for six hours —from 8 to 2 and 2 to 8. This is done every day including Sundays and holidays. The sugar manufacture was stopped from 5th November last, and there was no night work from that day.

5. During the sugar-cane season the second class is divided into three sets, who work in shifts of four hours—from 8 to 12, 12 to 4 and 4 to 8.

6. The machines were carefully supervised by the Factory Engineer and all dangerous machinery continues to be securely fenced.

7. All the requisite notices were hung up conspicuously.

8. As usual, the factory is kept clean with free ventilation and the factory and premises are in a satisfactory condition. I have received every assistance in my inspections from the manager.

9. Five accidents were reported to me during the year under review, and the injured persons were treated successfully in the Local Fund dispensary at Aska. A statement showing the details of each case is appended :—

Date of accident.	Name.	Caste.	Sex.	Age.	Nature of injury.
				YEARS.	
18th February 1890.	Boisomo	Alliah	Male.	30	The top part of the first finger of the right hand was severely cut by an accident, which had nothing to do with the machinery.
29th May 1890 ..	Arthosetty	Dhobi	Do.	35	Accidentally fell down by his own neglect in the wash tank while he was mixing the wash with a wooden rod, and by doing so he fell on an iron bar across the tank, and thus injured his private parts seriously.
27th August 1890.	Totha	Dandasy ..	Do.	17	The first joint of one finger of the right hand crushed and two other fingers bruised.
5th October 1890.	Chondro Naiko ..	Bavuree ..	Do.	40	Fell on the steps of fire room place by which he injured the right side of the body slightly. The injury was slight as the man was reported to have returned to his duties in two days.
8th Nov. 1890 ..	Lockonosetty ..	Dhobi	Do.	40	Bruised his left leg in several places by falling down five steps of the factory staircase leading to the diffusion vessel dischargers. The accident happened through his own carelessness, as, after completing his night patrol with the maistry, he left the panstage for the purpose of nature without availing himself of one of the factory lanterns ready at the panstage or taking hold of one of the two side hand-railings of the staircase.

10. I beg to append a statement showing the results of the inspections :—

Name of Factory.	Date of inspection.	Number of persons employed.				Machinery whether fenced or not.	Ventilation and sanitation.
		Adults.		Juveniles.			
		Men.	Women.	Males.	Females.		
Sugar Factory at Aska	31st March 1890 ..	422	..	..	..	Securely fenced ..	Clean and well ventilated.
	30th September 1890.	361	..	77	..	Do. ..	Clean and well ventilated.
	17th December 1890.	244	..	48	..	Do. ..	Clean and well ventilated.

Submitted to Government, with reference to G.O., dated 26th August 1884, No. 2177, Judicial Department.

CHATRAPUR,
16*th February* 1891.

(Signed) E. C. JOHNSON,
District Magistrate.

From L. M. WYNCH, Esq., Acting Head Assistant Magistrate, Kistna, to the District Magistrate, Kistna, dated Bezváda, 4th February 1891, No. 225.

I have the honour to submit my report under the Factories' Act XV of 1881 for the calendar year 1890.

2. There is only one factory in this division, viz., the Department of Public Works Workshop, Bezváda, which is under the charge of the Executive Engineer, Eastern Delta.

3. This factory was twice inspected on 17th May 1890 and 21st October 1890.

4. The registers prescribed by the rules were properly kept. A copy of the rules in English and Telugu, and a table of working hours and holidays, are posted up.

5. The hours fixed are from 6 A.M. to 6 P.M., with two hours' interval, that is, ten hours in all.

6. No prosecutions were ordered under the Act during the year.

7. No accidents were reported in the year.

8. There were five children employed during the year, who were duly mustered under Rule VII at each inspection.

9. The usual tabular statement is enclosed.

10. I was unable to make a third inspection in December as I had to go into camp almost immediately after resuming charge. An early opportunity will be taken to repair the omission this month.

ENCLOSURE.

Name of Division.	Name of Factory.	Number of persons employed.				Machinery whether fenced or not.	Ventilation and sanitation.	Date on which examined.
		Adults.		Children.				
		Men.	Women.	Male.	Female.			
Head Assistant Magistrate's Division.	Government Workshop, Bezváda.	338	..	5	..	Fenced..	Good ..	17th May 1890.
		310	..	5	..	Do. ..	Do. ..	21st Oct. ,,

No. 139.

Forwarded to the Chief Secretary to Government, Judicial Department. This is the only factory in the district.

MASULIPATAM,
10*th February* 1891.

(Signed) A. T. ARUNDEL,
District Magistrate.

From R. SEWELL, Esq., District Magistrate, Bellary, to the Chief Secretary to Government, dated Bellary, 16th February 1891, M.P.R. No. 38.

I have the honour to submit copies, with copies of enclosures of reports, received from the Divisional Magistrates marginally noted, on the working of factories for the year 1890, and to state that there are no factories in Hospet division.

Deputy Magistrate, Bellary's letter, dated 2nd January 1891, No. 1.
Deputy Magistrate, Adóni's letter, dated 16th January 1891, No. 28.

ENCLOSURES.

From B. H. CHESTER, Esq., Deputy Magistrate and Inspector of Factories of Bellary Division, to the District Magistrate, Bellary, dated Bellary, 2nd January 1891, No. 1.

I have the honour to submit the usual report on the working of the factories in the Bellary division during the calendar year 1890.

2. Three factories continued under inspection. I visited each three times during the year on the following dates:—

(1) The Bellary Spinning and Weaving Mills,—7th July, 19th August, 11th December.
(2) The Bellary Arsenal,—11th July, 13th September, 17th November.
(3) Messrs. Dymes and Co.'s Cotton Press,—18th July, 21st August, 29th September.

3. Children are employed only in the Bellary Spinning and Weaving Mill. No girls are employed. At each inspection I had the children mustered. They looked healthy and strong and in no case did I see a child under seven years of age.

4. The requisite notices were duly exhibited in all three factories.

5. The arrangements for sanitation and ventilation were good.

6. There were no prosecutions during the year.

7. There were no accidents at the Arsenal or Messrs. Dymes and Co.'s Cotton Press, but there were seven accidents at the Bellary Spinning and Weaving Mill. Statement A shows in detail the name of person injured, the nature of the accident, date of injury, and date of return to work. There were no fatal accidents. Those injured were paid full wages during the period they were in hospital. Inquiries made by me show that the accidents were due to carelessness on the part of employés.

8. Statement B enclosed shows the number of persons employed at each inspection and the state of the factories in regard to sanitation and ventilation.

2. A detailed statement of accidents reported during the year, together with a list of Factories, is herewith enclosed.

3. None of the accidents were serious.

(Signed) SIDNEY SMITH, Major, R.E.,
Inspector of Railway Factories.

ENCLOSURES.

DETAILED Statement of Factory Accidents on the Madras and South Indian Railways for 1890.

Railway.	Factory.	Date. Month.	Date. Day.	Remarks.
Madras Railway.	Perambúr Works.	January ..	21st ..	Three fingers of right hand of a cooly were severely hurt by the accidental fall of an axle box which he was carrying.
		February ..	18th ..	The right eye of a boilersmith was severely hurt owing to a chip from a rivet, which he was cutting, striking it.
		May ..	3rd ..	The left leg of a chargeman was scalded by his accidentally putting it in front of a pipe, out of which steam was passing.
		,, ..	14th ..	The right eye of a cooly was severely hurt by a spanner, which he was using at the time, accidentally slipping and striking him on the eye.
		,, ..	26th ..	Two fingers of left hand of a cooly got jammed between a fuel truck, which he was pushing, and a firewood bin.
		September ..	2nd ..	While a moulder was casting, some molten metal, squirting from the mould, flew into his eye and destroyed his vision.
		October ..	27th ..	A machineman was hurt by his accidentally tripping and falling against a projecting portion of a drilling machine.
		,, ..	28th ..	A cooly was hurt by a piece of timber which he was cutting on a saw bench springing up and striking him on the head.
South Indian Railway.	Engineering Workshops, Trichinopoly.	June ..	28th ..	A sawyer was wounded in the right arm while cutting reapers at the circular saw.
Do. ..	Negapatam Workshops.	March ..	12th ..	A smith was hurt while drawing iron under the steam hammer by his right index finger being caught between the handles of tongs.
		July ..	5th ..	A painter was hurt by a tressel falling on his leg.
		,, ..	11th ..	A smith was hurt in his foot by a piece of iron flying out while punching a draw bar plate under the steam hammer.
		November ..	16th ..	A fitter, while carrying a spring, attempted to jump across a pit, when the spring slipped and fell on his toe.

List of Factories.

Name of District.	Name of Factory.	Number of hands ordinarily employed. Adults. Men.	Adults. Women.	Children. Males.	Children. Females.	Machinery whether fenced or not.	Ventilation and sanitation.
Madras	Perambúr Railway Workshops ..	2,872 to 3,004	..	..	..	Sufficiently fenced.	Good.
Trichinopoly ..	South Indian Railway Engineering Workshops, Trichinopoly.	575 to 639	..	..	..	Do. ..	Do.
Tanjore ..	South Indian Railway Loco. and Carriage Shops, Negapatam.	2,180 to 2,246	..	..	..	Do. ..	Do.

No. 281.

Submitted to Government, with reference to G.O., dated 9th February 1883, Nos. 329-30, Judicial.

MADRAS, 11*th March* 1891.

(Signed) SIDNEY SMITH, Major, R.E.,
for *Offg. Consulting Engineer for Railways.*

To the Chief Secretary to Government, Judicial Department.

From A. M. JONES, Esq., Deputy Magistrate and Inspector of Factories, Nílgiris, to the District Magistrate, Nílgiris, dated Ootacamund, 25th March 1891, No. 255.

I have the honour to submit my report on the working of the Indian Factories Act (XV of 1881) during the year 1890.

2. There is only one Factory in the district under the operation of the Act, viz., the Murree Brewery, Ootacamund Branch.

3. I inspected the Brewery thrice during the year under report, viz.:—

on 8th July 1890,
,, 31st ,, ,, and
,, 20th Dec. ,,

4. There were no accidents in the establishment. Registers C, D and E were written up to date, the latter two being blank. The rules and time of work, viz., 7 to 12 A.M. and 1 to 5½ P.M., were hung up in conspicuous places.

5. There has been no increase or change in the engines which were well protected, and the place was clean and well ventilated.

6. The manager, Mr. J. W. Howard, sees all the rules under the Act complied with.

7. The usual tabular statement is herewith submitted.

ENCLOSURE.

STATEMENT showing the number of persons employed during the year 1890 in the Murree Brewery, Ootacamund Branch.

Name of Factory.	Date of inspection.	Number of persons employed. Adults. Men.	Adults. Women.	Children. Males.	Children. Females.	Machinery whether fenced or not.	Ventilation and sanitation.
Murree Brewery Company, Ootacamund Branch.	8th July 1890 ..	103	11	..	..	All securely fenced.	Clean and well ventilated.
	31st ,, ,, ..	96	12	..	..		
	20th Dec. ,, ..	77	12	..	..		

No. 269.

Submitted to Government.

(Signed) C. F. MACCARTIE,
District Magistrate, Nilgiris.

26*th March* 1891.

From Colonel T. WELDON, C.I.E., Commissioner of Police, to the Chief Secretary to Government, dated Madras, 28th March 1891, No. 21.

I have the honour to submit the annual report for the year 1890 of the Deputy Commissioner of Police as Inspector of Factories in the City of Madras.

ENCLOSURES.

From S. D. SIMPSON, Esq., Deputy Commissioner of Police and Inspector of Factories, to the Commissioner of Police, dated Madras, 26th March 1891, No. 8.

I have the honour to submit my report, under the Factories Act (XV of 1881), for the calendar year 1890.

2. There are eleven factories in the City of Madras, and they were visited by me at least three times during the year in accordance with the prescribed rules. The statement below shows the number of times I inspected each of them, the number of persons employed, and the state of the factories in regard to sanitation and ventilation :—

Name of Factory.	Dates of inspection.	Number of persons ordinarily employed.				Number of accidents.	Machinery whether fenced or not.	Ventilation and sanitation.
		Adults.		Children.				
		Men.	Women.	Males.	Females.			
	1890.							
Gun Carriage Factory ..	29th March .. 18th July .. 9th October .. 17th December ..	921	2	..	..	2	Yes ..	Good.
Southern India Spinning and Weaving Mill.	25th March .. 12th May .. 18th July .. 29th October ..	781	20	..	..	6	,, ..	,,
Harbour Works ..	25th March .. 30th June .. 28th October ..	724	31	..	..	15	,, ..	,,
Napier Works	27th March .. 17th July .. 27th December ..	208	..	..	..	2	,, ..	,,
Public Works Workshops	26th March .. 9th July .. 16th December ..	238	2	..	..	5	,, ..	,,
Madras United Spinning and Weaving Mill.	28th March .. 15th July .. 28th November .. 29th December ..	672	48	26	..	6	,, ..	,,
Buckingham Mill ..	28th March .. 15th July .. 28th November .. 29th December ..	790	47	63	11	4	,, ..	,,
Carnatic Mill	28th March .. 15th July .. 28th November .. 29th December ..	1,479	79	24	..	16	,, ..	,,
Cement Works	27th March .. 17th July .. 27th December ..	84	96	..	..	..	,, ..	,,
Bee-hive Foundry ..	26th March .. 30th June .. 30th December ..	171	..	14	..	1	,, ..	,,
Simpson and Co. ..	29th March .. 18th July .. 9th October .. 17th December ..	351	..	37	...	2	,, ..	,,

3. *Children*.—The Buckingham and Carnatic Mills continue to employ children as usual and have on their rolls 74 and 24, respectively. The former began the year with 112 children, admitted 84 during the year, transferred 46 to the adults' register, and struck off 76 as absentees. The latter commenced with 63 children, admitted 39, struck off 39, and transferred the same number to the adult class. The Madras United Spinning and Weaving Mill and Messrs. Simpson and Co. also employed children during the year as shown in the above statement. The children seen by me at all my inspections appeared to be well looked after, were allowed the usual holidays and were employed as required by the Act.

4. *Accidents*.—I append a list of accidents during the year. There were 59 against 60 in 1889. Statement A gives in detail the number in each Factory, how each occurred, and the extent and description of the resulting injury. In all but 17 * cases the harm done was of a trivial nature, and in only one was death the issue. This case occurred in the Carnatic and was caused by the breaking, accidentally, of the branch pipe, at feed valve to boiler. Early on the morning of the 7th November 1890, the 2nd fireman (Ramen) on duty, noticing that one of the pipes was leaking, called the attention of the deceased, Anthony, the 1st fireman, to it, who at once repaired to the spot, inspected the pipe and, finding there was too much pressure, directed fireman Ponnusamy, who was firing at the time, to lessen the fire. The man Ramen, very fortunately for himself, had just stepped aside to get a shovel, when an explosion occurred, and the steam thus released filling the room, concealed from view the machinery and fireman, for about 15 minutes. When the atmosphere cleared, the deceased Anthony and fireman Ponnusamy were seen rolling about in the open. The former was badly scalded in the lower extremities, right shoulder and chest, and the latter, less severely on both legs. They were both conveyed to the General Hospital, where they were immediately attended to. Ponnusamy was discharged in 15 days, but Anthony died on the 25th November from congestion of internal organs and exhaustion, the result of extensive scalds. An inquest * was held by the Police and the following statement by the Engineer in charge recorded at this inquisition :—

* Verdict, accidental.

* * * * *

"I made an examination and found that the feed-pipe had broken in two, and this must have caused a sudden escape of boiling water and thus have scalded these two men. I examined the gauge and found that it indicated 118 lb. pressure. There might have been a greater pressure before I came up, but it could not have been much more, perhaps about two pounds more which came down through the breakage. We never work with more than 125 lb. pressure, and the boiler is quite capable of standing this pressure, as it has been tested to stand three times or greater strain. The boiler and all its components were in good working order as far as I could see, but after the accident I discovered that there had been a slight flaw in the strengthening rib of the feed-pipe and ascribe the accident to this. This flaw could not have been discovered unless the pipe had leaked, but there was no leak whatever when we closed work the previous evening. I do not believe that the pipe broke from over-pressure of steam, as in that case it would have burst into fragments and not in two as it has happened. We examine our boilers about once a month, and when I last examined this boiler, together with the pipes, &c., which was about three weeks previously, I found everything sound."

5. In the Harbour Works, there were fewer accidents, but in the Carnatic Mill, I regret to say, a larger number—fully double that of last year (1889). Most of them occurred through carelessness on the part of the operatives themselves.

STATEMENT A.

Name of Factory.	Name of persons injured.	Date of accident.	Caste.	Sex.	Age.	Nature of injury.
		1890.			YEARS.	
Gun Carriage Factory	Cunniappen	26th March	Hindu	Male	42	Second and 3rd fingers of left hand injured. Right side of his head and chin bruised by the fall of scales.
Do. do. ..	Valayooden	28th August	Do.	Do. ..	39	*Thumb of the right hand severely cut, while working at a circular sawing machine.
Southern India Spinning and Weaving Mill, Réyapuram.	Shaikh Abd-ullah	30th April	Mahomedan ..	Do. ..	25	One of the right hand fingers slightly injured by negligently putting his hand in one of the drawing machines to pick waste, while in motion.
Do. do. ..	Mustafa	10th May	Do. ..	Do. ..	13	Two fingers of right hand injured by putting his hand in the back roller machine to pick up cotton therefrom.
Do. do. ..	*Vencatasawmy .. ..*	*5th July .. ..*	*Hindu .. ..*	*Do.* ..	40	*Three fingers of the right hand cut by negligently cleaning the scutcher while it was running.*
Do. do. ..	Authimoolum	13th August	Do.	Do. ..	30	Slight injury in the right hand palm by negligently cleaning the engine while in motion.
Do. do. ..	Periyasawmy	31st October	Do.	Do. ..	35	Injured on the head by circular saw machine.
Do. do. ..	Moonisawmy	13th November	Do.	Do. ..	14	* Right arm bone broken between wrist and shoulder and 2 front teeth broken by tumbling down the stair case.
Harbour Works	Ramasawmy	5th January	Do.	Do. ..	35	Swelling of the left knee caused by a piece of timber striking his knee.
Do.	Nunnoomeah	8th ,, ...	Mahomedan ..	Do. ..	30	Wound on the right foot caused by a skip-truck wheel passing over his foot.
Do.	Sultan Muhi-ud-din	10th ,, ...	Do. ..	Do. ..	32	A finger on his left hand wounded by placing his finger under stone-crusher jaw.
Do.	Chinnian	15th ,, ...	Barber	Do. ..	30	Wound on the right leg caused by having been struck by winch handle.
Do.	Rajagopaul	15th February	Hindu	Do. ..	40	* Jammed his right hand, having it caught in the machine.
Do.	Annapoorani	19th March	Boatwoman ..	Female ..	11	A wound on the right leg caused by a block-truck wheel passing over it.

STATEMENT A—*cont.*

Name of Factory.	Name of persons injured.	Date of accident.	Caste.	Sex.	Age	Nature of injury.
		1890.			YEARS.	
Harbour Works	Paripooranum	26th March	Native Christian ..	Male	39	*Fracture of right wrist and right thigh caused by the man falling off the South Pier Titan-ladder.
Do.	Moothial Chetty	1st May	Hindu	Do.	40	*Had the big toe of his left foot smashed by the light Traveller crab-wheel passing over it.
Do.	Ponniaen	4th July	Do.	Do.	25	*Big toe of his right foot smashed by a skip-truck wheel passing over it.
Do.	Rungiah	7th ,, ...	Do.	Do.	20	*Big toe of his right foot smashed by a skip-truck wheel passing over his foot.
Do.	Mathuray	18th ,, ...	Do.	Do.	21	*Big toe of his left foot smashed by a skip-truck wheel passing over it.
Do.	Muhammad Seeda	1st September	Mussalman ..	Do.	42	*Wound on the right leg caused by a crab-wheel of Titan crane, South Pier, tilting over his leg.
Do.	Veerasawmy	24th November	Hindu	Do.	30	*Big toe of right foot smashed by a skip-truck wheel passing over his foot.
Do.	Edwards	6th December	Eurasian	Do.	18	*The first finger of his left hand was severed at the first joint, by his finger getting caught in the cog-wheel of a drilling machine.
Do.	Auroomoogum	8th ,, ...	Hindu	Do.	49	Hurt the shin bone of his left leg by slipping off a plank.
Napier Works	Nagan	27th February	Yathava	Do.	30	Hurt on back of hand caused by strap on drilling machine, by his own carelessness.
Do.	Thoppay	19th December	Pariah	Do.	33	*Toe smashed while moving iron bars.
Public Works	R. Halge	7th February	Eurasian	Do.	14	*Centre finger of right hand severely cut by the cog-wheel of the Governor's of a vertical boiler and engine, when being cleaned.
Do.	Periyathumbee	19th March	Vellala	Do.	36	Big toe of left foot slightly wounded by the fall of a Grainger Pan scale's stand on the foot while lifting the staud.
Do.	P. Moonisawmy	25th June	Vannu	Do.	35	*A severe wound on the forehead from a hammer caused by the head of a hammer accidentally striking the forehead while he was on duty.

STATEMENT A—*cont.*

Name of Factory.	Name of persons injured.	Date of accident.	Caste.	Sex.	Age.	Nature of injury.
		1890.			YEARS.	
Public Works	J. Pereira	11th September ..	Eurasian	Male	14	Second finger of left hand jammed by the wheel gear of a drilling machine, while at work with it.
Do.	Thepperumall	22nd ,, ...	Vunneah	Do.	15	Forefinger of the left hand cut by a chisel while working, caused by a carpenter's chisel cutting the finger while using the same at mill.
Madras United Spinning and Weaving Mill, Choolay.	Shaikh Kazim	19th March	Mussalman ..	Do.	13	*Severe crushing caused by being caught between the two tin rollers of a throstle.
Do. do. ..	Poonniacotty	12th April	Pillay	Do.	35	Injury to fingers of the right hand caused by putting his hand on the beater while in motion.
Do. do. ..	Ramachendran	26th ,, ...	Moodelly	Do.	50	Injury to the 2nd finger of left hand caused by placing his hand on the Governor of the engine carelessly.
Do. do. ..	*Ragavaloo	*12th October	*Oopparavan ..	*Do.	*15*	*Cut on the right arm and right foot by his own negligence* by getting his hand caught by the iron pulley while cleaning.
Do. do. ..	Moonisawmy	30th November ..	Naiken	Do.	17	Bruising of the 2nd finger of the left hand caused by carelessly putting his hand under the rollers of a mule.
Do. do. ..	Moonisawmy	1st December	Naidu	Do.	20	Slight laceration on left hand and shoulder caused by carelessly getting his hand caught by rollers of a throstle while piecing.
Buckingham Mill	Thachana Moorthy	19th February	Moodelly	Do.	13	Injury to the 3rd finger of right hand caused by his carelessness by putting his finger in the wheel of roving machine.
Do.	Mathuray	4th March	Do.	Do.	25	Loss of 2nd finger of right hand by getting trapped in Governor of engine.
Do.	Kasaven	10th July	Hindu	Do.	13	Injury to the 1st joint of 1st finger of right hand caused by his own carelessness by putting his finger in the roller wheel of ring frame.
Do.	Narasimooloo	23rd September ..	Kavarai	Do.	15	Injury to the 1st joint of 1st finger of right hand caused by his own negligence in cleaning wheels in motion.
Carnatic Mill	Coopoosawmy	21st January	Naidu	Do.	35	Third and 4th fingers bruised, caused in the grinding stone while sharpening a tool.

STATEMENT A—*cont.*

Name of Factory.	Name of persons injured.	Date of accident.	Caste.	Sex.	Age.	Nature of injury.
		1890.			YEARS.	
Carnatic Mill	Venkatasawmy	26th January	Moodelly	Male	15	Hurt on his left knee by leaning on the intermediate frame while in motion.
Do.	Veera Ragaven	4th February	Pariah	Do.	14	Hurt on the 4th finger of his left hand by his own carelessness by putting his hand between two back rollers and carrier wheels of the ring throstle frame while in motion.
Do.	Gopaul	6th May	Do.	Do.	14	Hurt the 2nd, 3rd and 4th fingers of left hand by putting his hand out of curiosity between two rollers in the calendar machine while in motion.
Do.	Saiyid Ali	11th ,, ...	Mussalman ..	Do.	14	Hurt 1st, 2nd and 3rd fingers of right hand by putting his hand in a pair of pinion wheels of the throstle frame while in motion.
Do.	Vathagerry	11th ,, ...	Hindu	Do.	25	Hurt 2nd, 3rd and 4th fingers of right hand while working on the saw machine, his hand slipped and fell across the machine against the saw.
Do.	*Moonian	*22nd ,, ...	*Chuckler	*Do.*	14	*Hurt the 3rd finger of his right hand by carelessly putting his hand in a pair of pinion wheels of the throstle frame while in motion.*
Do.	Haidar Husain	3rd June	Mussalman ..	Do.	14	Hurt on the 4th finger of his right hand by carelessly putting his hand in a pair of pinion wheels of the throstle frame while in motion.
Do.	Moonisawmy	1st ,, ...	Pariah	Do.	30	Hurt his head by a driller accidentally slipping from the ratchet and falling on it.
Do.	Moorugasen	18th July	Moodelliar	Do.	18	Hurt his right thumb by carelessly putting his hand in a bobbin wheel of the roving frame while in motion.
Do.	Husain Khan	19th ,, ...	Mussalman ..	Do.	15	Hurt the 4th finger of his right hand by playing with another boy and jack machine accidentally falling on his right hand.
Do.	Lutchimee	22nd September ..	Tamil	Female ..	14	A slight hurt on her right eye-brow caused by a shuttle accidentally flying out while she was passing through the weaving shed.

STATEMENT A—*cont.*

Name of Factory.	Name of persons injured.	Date of accident.	Caste.	Sex.	Age.	Nature of injury.
					YEARS.	
Carnatic Mill	Rungiah	1890. 16th October ..	Tamil ..	Male ..	20	Hurt the 3rd finger of his right hand by carelessly putting his hand between two back rollers in the roving frame while in motion.
Do.	Ramalingum	16th ,, ..	Do. ..	Do. ..	14	Hurt on 4th finger of left hand by carelessly putting his hand between a pair of pinion wheels of the throstle frame while in motion.
Do.	Anthony, died 25th November 1890.	7th November ..	Pariah ..	Do. ..	30	*Scalded below the waist by steam blowing on account of the branch pipe breaking accidentally at feed-valve to boiler.
Do.	*Ponnoosawmy*	7th ,, ..	Do. ..	Do. ..	20	*Scalded on the back of thighs by steam blowing on account of the branch pipe breaking accidentally at the feed-valve to boiler.
Bee-hive Foundry ..	Rungasawmy Pillay ..	19th March ..	Hindu ..	Do. ..	52	One finger of left hand being jammed between two rollers causing a slight lacerated wound.,
Simpson and Company ..	Vadiveloo	13th February ..	Do. ..	Do. ..	30	*Got his cloth entangled in the strapping while engine was at work; left leg fractured and amputated in hospital.
Do.	Chunthe	5th November ..	Vanian ..	Do. ..	35	Hurt on the left leg by a piece of timber falling on it.

From J. STURROCK, Esq., District Magistrate of Coimbatore, to the Chief Secretary to Government, dated Coimbatore, 28th March 1891, No. 219-Magte.

I have the honour to enclose copy of the report received from the Deputy Magistrate in charge of the Coimbatore Taluk Division, dated 28th February last, No. 4, on the working of the Indian Factories Act, for the calendar year 1890, and a copy of the statement received from him showing the number of men employed, &c.

2. The Spinning and Weaving Company Factory, which is the only one in the district which comes under the purview of the Act, has been twice inspected in the year by the Deputy Magistrate and the remarks passed by him have been duly communicated to the occupier of the Factory.

3. All the requirements of the Act have been complied with.

ENCLOSURES.

From M.R.Ry. T. GOPALAN NAIR Avargal, Deputy Magistrate, Coimbatore, to the District Magistrate of Coimbatore, dated Coimbatore, 28th February 1891, No. 4—F.A.

I have the honour to submit my report on the working of the Spinning and Weaving Company Factory, Coimbatore, for the year 1890.

2. The Factory was nominally opened on the 18th August 1890, but the real work was commenced on the 1st September 1890.

3. I inspected the Factory twice during the year, viz, 1st and 18th December 1890. On these occasions the Manager of the Factory gave me every facility in my work of inspection. Copies of my remarks on the state of the Factory during those inspections are herein enclosed.

4. No children under the age of 7 are employed.

5. The machinery appears to me to have all its dangerous portions securely fenced.

6. The sanitary condition of the Factory premises is good and the buildings are ventilated.

7. Three accidents were reported during the year. These were due to the carelessness of the persons employed. They were successfully treated in the Municipal Dispensary, Coimbatore.

8. In this Factory cotton yarn is manufactured and pressed into bales with the aid of a steam engine of 266 horse-power.

9. Registers A and B are duly maintained in my office.

10. A statement in the form prescribed in paragraph 7 of G.O., dated 7th July 1885, No. 1760, Judicial, is enclosed.

REMARKS on the state of the Spinning and Weaving Company (Limited), Coimbatore, inspected on 1st December 1890.

Factory No. 1.

I inspected this Factory with the Manager this day. There were 144 adult males and 55 adult females and 249 male children and 46 female children, employed at the time of inspection. No children under the age of 7 years are employed in this Factory. Children who are above 7 years of age and under 12, have been certified by the Civil Surgeon as to their age, and the file of such certificates in Form C, as required by the rules framed under the Indian Factories Act, has been duly maintained. No children are employed near the steam engine.

2. The notice of the interval required to be set up in the Factory under section 7 of the Act has not been set up. This should be done.

3. In section 8 of the Act it is laid down that notice shall be given to the Inspector of the four holidays to be given to the children each month. I understand that every Sunday is a holiday, but formal notice of the fact has not been given to the Inspector and should be furnished. A notice in the diglott form authorising ten holidays for the whole year has been posted in a conspicuous place.

4. Section 8 of the Act and rule 15 require that registers of the children employed should be kept in Forms D and E. This has not been done; but should be done at once.

5. A notice in Form F, as required by rule 16, showing the daily working hours of the Factory, has not been set up. This should be attended to at once.

6. The machinery in all its dangerous portions appears to have been securely fenced. I told the Manager, who was with me, not to allow the visitors to go near the steam engine. I

intend taking an Engineer with me in the course of my next inspection to give a professional opinion as to the secure fencing of the machinery.

7. Rule 23 requires that a copy of the rules and forms should be hung up in the Factory in a conspicuous place. This has not been, but should be, done.

8. A copy of these remarks will be communicated to the occupier of the Factory who should attend to the remarks with as little delay as possible.

(Signed) T. GOPALAN NAIR,
Deputy Magistrate.

REMARKS on the state of the Spinning and Weaving Company (Limited), Coimbatore, inspected on the 18th December 1890.

Factory No. 1.

I inspected this Factory with the Assistant Surgeon this day There were 150 adult males and 48 adult females and 222 male children and 27 female children employed at the time of inspection. No children under the age of 7 years are employed in this Factory. Twenty-three children, including males and females, were produced before me, and they have all been certified by the Civil Surgeon under 12 years of age. But I, with the Assistant Surgeon, walked through among the working persons, to find out if there were any children under 12 years of age, employed without the necessary certificates having been obtained as to their age. The occupier did not obtain certificates for the children actually employed and named in the margin. They appeared to me to be under 12 years of age. The Assistant Surgeon, who accompanied me, was also of the same opinion. The occupier will see that the necessary certificates are obtained in the case of the children pointed out by me.

1. Papal.
2. Meenatchi.
3. Velakkanni.
4. Maruthal.
5. Krishnan.
6. Siluvamuthu.
7. Nachimuthu, No. 138.
8. Sultan, No. 56.
9. Bommadasan, No. 37.
10. Abd-ul Hazim, No. 150.
11. Komaran, No. 25.

2. The children work from 7 A.M. to 12 A.M. and from 1 P.M. to 5 P.M., having an interval for food and rest from 12 noon to 1 P.M.

3. The notice of interval required to be set up in the Factory, under section 7 of the Act, is set up.

4. Children are not employed near the steam engine or in its dangerous parts.

5. The machine has been securely fenced in all its dangerous portions.

6. Register in Form E has been kept, while the register in Form D has not, but should be done at once.

7. The notice showing the daily working hours has been set up. A copy of the rules has not been hung up as required by rule 23. This should be done at once.

8. The children whom I met and spoke to, said to me that they generally leave work at 7-30 P.M. This may or may not be true, but I call the attention of the Manager to the strict observance of section 7 of the Act, which clearly lays down that no child shall be actually employed in any Factory more than 9 hours in any one day. A copy of these remarks will be communicated to the occupier of the Factory who should attend to them with as little delay as possible.

(Signed) T. GOPALAN NAIR,
Deputy Magistrate.

TABLE showing the number of persons employed at the end of the year and the state of the Factory with reference to sanitation and ventilation.

Name of District.	Name of Factory.	Number of persons employed at the end of the year.				Machinery, whether fenced or not.	Ventilation and sanitation.
		Adults.		Children.			
		Men.	Women.	Males.	Females.		
Coimbatore ..	Spinning and Weaving Company (Limited), Coimbatore.	138	62	218	54	Properly fenced.	Good.

(Signed) T. GOPALAN NAIR,
Deputy Magistrate.

From G. F. T. POWER, Esq., Acting District Magistrate of South Arcot, to the Chief Secretary to Government, dated Cuddalore, 10th April 1891, No. 499 Indexed.

With reference to G.O., dated 5th March 1883, No. 625, Judicial, and para. 6 of G.O., dated 9th February 1882, No. 193, I have the honour to forward herewith reports from the Deputy Magistrates, General Duty, Cuddalore and Tirukoilúr, on the working of the Indian Factories Act, 1881, during the calendar year 1890.

2. There are two factories in the district—one at Nellikuppam and the other at Tiruvennanallúr—falling within the scope of the Act. Both of them were in working order during the year under report.

3. The factory at Nellikuppam is situated within the Cuddalore Deputy Magistrate's division. This officer and his predecessor have inspected it on three occasions during the year.

4. There were seven accidents in this factory during the year. None of them proved fatal.

5. The sanitary condition and ventilation are reported to be fairly good. Juveniles under the prescribed age are not employed.

6. The factory at Tiruvennanallúr lies within the Tirukoilúr Deputy Magistrate's division. This officer has inspected it thrice during the year.

7. There were no accidents in this establishment.

8. The sanitary condition was fair and ventilation sufficient.

9. No prosecutions were ordered under the Act during the year.

10. The statement prescribed by Government in its order, No. 1760, dated 7th July 1885, is enclosed.

ENCLOSURES.

From M.R.Ry. V. SUBBIAH Avargal, B.A., Deputy Magistrate on General Duty, South Arcot, to the Acting District Magistrate of South Arcot, dated Tirukoilúr, 28th February 1891, No. 20.

I have the honour to submit my report on the working of the Factory Act in this division for 1890.

2. There is only one working registered factory in this division, that of Messrs. Parry and Co. at Tiruvennanallúr. More than 100 coolies work in it and they were so employed in 59 days during the year under report.

3. Adult males or females work 10 hours a day—from 7 to 12 A.M., again from 2 to 7 P.M. Special arrangements are made for night work during sugar-manufacturing season, so as to give 12 hours' work per head, day and night put together. A cooly is made to work from 7 A.M. to 1 P.M., and then relieved for the rest of the day; he comes back at 7 P.M. and works on until 1 A.M., the relieving cooly working from 1 to 7 P.M., and again from 1 to 7 A.M.

4. The coolies are generally well-clothed and healthy, and, as a rule, children are not employed.

5. The coolies get daily wages, distributed once in a fortnight. It does not appear that their wages are unnecessarily withheld.

6. Inasmuch as the coolies get only daily wages for the days they work, they enjoy holidays at their will and pleasure; standing coolies, it is stated, enjoy 6 days for Pongal and 3 days for Deepavali in the case of Hindus, and 3 days for Mohorum and 2 for Ramzan and Kutba in the case of Muhammadans.

7. Sugarcane season begins from 1st March and ends by 15th May. That is generally the most busy part of the year.

8. I have visited the factory thrice and an extract from the register of inspection is enclosed for information.

9. No accidental deaths have been reported during the year under report.

REPORT on Inspection of Factory in the Division of the General Duty Deputy Collector, Tirukoilúr. for 1890.

Number.	Name or description of Factory.	Name of occupier or manager.	Date of inspection.	Number of persons at work on the date of inspection. Adult. Men.	Adult. Women.	Children. Male.	Children. Female.	Machinery whether fenced or not.	Ventilation and sanitation.	Remarks.
1	Sugar Factory and Distillery, Tiruvennanallúr.	E. J. G. Gill, Esq., Agent of Messrs. Parry and Co.	20th Aug. 1890	16	8	..	..	Yes	This is not the working season. No work is going on since June. Sanitation fair.	
			3rd Oct. ,,	4	..	..	..	Do.	Do. ..	This being not the working season, the premises are in a neglected condition.
			31st Dec. ,,	31	8	..	..	Machinery properly fenced; not working.	Sufficient ventilation; premises being cleaned and fair.	

From M.R.Ry. P. KRISHNA ROW Avargal, Deputy Magistrate, Cuddalore, to the District Magistrate, South Arcot, dated Cuddalore, 16th March 1891, No. 38.

I have the honour to submit my report on the working of the Factory Act for the calendar year 1890.

The factory at Nellikuppam, belonging to Messrs. Parry and Co., was inspected during the year by my predecessor, Mr. Sundra Row, B.A., and by me, on three occasions, as noted in the margin, and the result of the inspection is given in statement B (enclosed).

19th May 1890. | 2nd December 1890.
8th October 1890. |

2. On the two occasions I was there, I found the sanitary condition and the ventilation of the factory fairly good.

3. As no children under 12 years of age were employed in the factory, the registers D and E (rule 15) and the file of certificates in form C (rule 14) have not been maintained.

4. There were seven accidents during the year under report, of which, in three cases, the injured persons were successfully treated in the hospital at Manjakuppam. But in the other four cases, the injured persons were partly under treatment in the hospital and subsequently got cured by private treatment. A statement showing the details of each case is herewith submitted.

5. There were no prosecutions in the year.

STATEMENT showing the number of persons employed on the dates of inspections and the state of the Factory, with reference to sanitation and ventilation during the year 1890.

Name of District.	Name of Factory.	Number of heads employed on the dates of the three inspections. Adults. Men.	Adults. Women.	Children.	Machinery whether fenced or not.	Ventilation and sanitation.
South Arcot ..	Sugar Manufactory and Refinery nd Spirit Distillery, Nellikuppam.	*19th May* 1890. 466	56	30	Fenced ..	Fairly good.
		8th October 1890. 508	45	30		
		2nd December 1890. 491	56	40		

STATEMENT showing accidents that occurred in the Sugar Manufactory and Refinery and Spirit Distillery at Nellikuppam during the year 1890.

Date of occurrence.	Name.	Caste.	Sex.	Age.	Nature of injury and how caused.	Remarks.
1	2	3	4	5	6	7
1890. 4th Feb.	Alamelu ..	Pariah ..	Female ..	13	Bruise of sole of right foot. The accident was caused by the girl crossing the turn-table while in motion.	Cured.
9th July ..	Singaram ..	Valluvan ..	Male ..	34	Lacerated side. The accident was caused by the man, a carpenter, losing his footing and falling from the top of a wall while removing roof couplings.	Discharged cured from the New Town Hospital on 25th August 1890.
11th Aug. ..	Dhurman ..	Vannien ..	Do. ..	30	Top of thumb cut off. The accident was caused by the man not attending to his work in hand and absently striking off his finger instead of chopping the bark he was engaged on.	Cured.
14th ,, ..	Subban ..	Pariah ..	Do. ..	20	Cut forehead. The accident was caused by a fellow-labourer letting fall a damper slide which he had just drawn from a chimney shaft commanding on iron roof and the slide slipping down over the roof and shooting off on to the injured man's head.	Discharged cured from the New Town Hospital on 25th August 1890.
14th Sept. ..	Muthusamy ..	Palli ..	Do. ..	35	Bruised or, possibly, broken toes. The accident was caused while unloading jaggery bags from a truck by one of the bags slipping down on to two of his toes of the left foot.	Cured.
28th ,, ..	Mottayen ..	Pariah ..	Do. ..	23	Bruised finger. The accident was caused by the injured person's own carelessness; he put his finger into the iron pulley while hauling up sugar bags.	Cured.
2nd Dec. ..	Ponnusami ..	Naicker ..	Do. ..	35	Face scalded by hot water and shaken by fall. The accident was caused by the man attempting to take a plug out of a boiler feed-water pipe while the feed pump was working. The plug struck the man in the face and he lost his balance and fell about 6 feet.	Discharged cured from the New Town * Hospital on 8th December 1890.

From F. A. NICHOLSON, Esq., District Magistrate of Tinnevelly, to the Chief Secretary to Government, dated Tinnevelly, 15th April 1891, No. 397.

With reference to G.O., No. 625, Judicial, dated 5th March 1883, I have the honour to submit the report on the working of the Indian Factories Act (XV of 1881) in this district for the calendar year 1890.

1. Tuticorin Cotton Press Company (Limited).
2. Cotton Press of Darley, Butler and Co.
3. The Coral Mills Company (Limited).
4. Cotton Spinning Factory, Pápanásam.

2. There were four factories, noted in the margin, on the registers during the year under report, the first three being in the Joint Magistrate's and the fourth in the Head Assistant Magistrate's divisions

3. *Inspection of Factories.*—The subjoined statement shows the dates of inspections, with their results:—

Name of Factory.	Number of times examined.	Date of inspection.	Number of persons employed.				Machinery whether fenced or not.	Ventilation and sanitation.
			Adults.		Children.			
			Men.	Women.	Male.	Female.		
1. Tuticorin Cotton Press Company (Limited).	1	1890. 6th September ..	72	12	..	..	Fencing satisfactory.	Satisfactory.
2. Cotton Press of Darley, Butler and Co.	1	6th ,, ..	67	13	..	..	Do. ..	Do.
3. The Coral Mills Company (Limited)	3	25th January ..	422	143	63	32	Do. ..	Do.
		29th August ..	383	139	112	55		
		12th November ..	356	184	99	11		
4. Cotton Spinning Factory, Pápanásam.	7	11th January ..	369	109	..	..	Properly fenced.	Good.
		23rd March ..	476	..	41	..		
		25th ,, ..	..	..	..	..		
		24th April ..	320	129	35	..		
		7th August ..	349	128	32	..		
		15th September ..	..	..	..	..		
		16th ,, ..	328	124	42	..		

4. It will be seen from the above statement that the first two factories were not inspected three times during the year as required by the rules. The Joint Magistrate, in whose division these factories lie, explains that the default was due to the frequent changes in the incumbency of the Sub-divisional officer during the year under report. They were once inspected by Mr. Henry on 6th September 1890, and when Mr. Hewetson went to inspect them on 31st December 1890 one had been closed and in the other three was no work. The Coral Mills Company (Limited) (factory No. 3), in the same division, where work is on an extensive scale, was, however, inspected three times—once by Mr. Holmes and twice by Mr. Henry.

5. With reference to the latter part of paragraph 1 of G.O., dated 9th June 1890, No. 982, Judicial, the Joint Magistrate states that factory No. 2, belonging to Messrs. Darley, Butler and Co., does not come within the scope of the Act inasmuch as the maximum number of operatives during the year under report as well as in the two preceding years has been below 100 and recommends its removal from the register. I am issuing orders to him to strike it off the register, but to make occasional visits to the factory in view to its being, if necessary, restored to control. Though the number employed in the factory No. 1 was less than 100 on the date of its inspection, the maximum number was 122. This factory may consequently be retained on the register.

6. With a view to maintain a careful watch, as advised in paragraph 6 (*a*) of G.O., dated 9th June 1890, No. 982, Judicial, over the employment of labour in the factory at Pápanásam, the Head Assistant Magistrate inspected it seven times during the year under report.

7. *Conditions of Factories.*—As regards the factories in the Sub-division, the Joint Magistrate reports that, from the inspection notes left by his predecessors, ventilation, sanitary arrangements and fencing of machinery appear satisfactory, and that the necessary rules under the Act have been stuck up. As regards the factory at Pápanásam, I beg to subjoin an extract from the report of the Head Assistant Magistrate, No. 61, dated 21st March 1891:—

"There is no defect in the machinery. Proper attention is being paid to keeping the factory in good sanitary condition. The rooms in which the looms are worked are well-ventilated. The machinery is properly fenced. The mill is situated in the middle of an open ground on the southern bank of the Támbraparni river and the surroundings are kept perfectly clean."

I beg also to enclose a statement containing the notes of inspection on the seven occasions by the Head Assistant Magistrate. These notes show that the provisions of the Act, and the rules thereunder as regards the maintenance of the several registers and forms, have been successfully enforced.

8. *Employment of Children.*—Children were not employed in the first two factories at Tuticorin. In the Coral Mills Company (Limited), at the same place, children were employed throughout the year. The certificates of ages were forthcoming for all the children and the necessary registers are maintained. The children at this factory were mustered and examined on the 12th November 1890 by Mr. Henry and the certifying Surgeon. There was no child under 7 years of age at work and the four holidays prescribed for children are allowed every month. Children were also employed in the factory at Pápanásam and the hours of work for them are said to be between 7 A.M. and 5 P.M., with a recess of one hour between 12 noon and 1 P.M. From the notes of inspection of the Head Assistant Magistrate, contained in the statement referred to in the foregoing paragraph, it appears that the forms and registers as regards children required by the Act and the rules are also maintained and that the children were mustered on 16th September 1890 by the Head Assistant Magistrate accompanied by the Assistant Surgeon.

9. I observe from the records in my office that some special arrangement was made for child-labour in this factory. Children were employed, to some extent, in 1885 the year in which this factory was, for the first time, brought under the purview of the Act, and the managers subsequently, in the same year, ceased to employ them—*vide* Mr. Rawson's letter, No. 2, dated 7th January 1886, which forms an enclosure to this office letter, No. 276, dated 5th April 1886, read in G.O., dated 31st May 1886, No. 1435, Judicial. I find also from the reports of the succeeding years that children were not employed till the year under report. In paragraph 4 of Mr. Rawson's letter quoted above, it is said that the working times for children were, with the sanction of Government, arranged as follows: one batch of children from 6 A.M. to noon, and another batch from noon to 6 P.M. I am now addressing the Head Assistant Magistrate asking him to report fully on this subject with reference to the above remarks, and I shall submit his explanation when received.

10. *Accidents.*—No accidents occurred in the first two factories at Tuticorin. Two occurred in the Coral Mills Company (No. 3) and one in the factory at Pápanásam (No. 4). The following statement shows the particulars of the three accidents:—

No.	Name of Factory.	Date of accident.	Name.	Caste.	Sex.	Age.	Nature of injury and how caused.	Remarks.
1	Coral Mills Company.	10th Feb. 1890.	Sankaralingum Chetty.	Hindu ..	Male.	YRS. 12	Right arm lacerated by carelessly putting the hand between the two tin rollers of spinning frame.	It was not the business of the boy to put the banding on the rollers.
2	Do. ..	23rd Apr. 1890.	Suviseshamuttu Nadan.	Do. ..	Do.	18	Part of first finger in right hand taken off by carelessly putting the hand inside a small driving fenced wheel.	
3	Factory at Pápanásam.	..	M. Palavesam..	Oil-monger.	Do.	15	Two fingers of right hand crushed and broken.	Since amputated.

The accidents were comparatively few—3 against 7 in the preceding year.

11. *Prosecutions.*—There were no prosecutions during the year under report.

ENCLOSURE.

STATEMENT showing the Notes of Inspection of the Factory at Pápanásam, in Ambásamudram Taluk, Head Assistant Magistrate's Division.

Number of Factory in Register A.	Name or description of Factory.	Name of occupier or manager.	Date of inspection.	Number of persons at work on date of inspection.				Remarks.
				Adults.		Children.		
				Men.	Women.	Male.	Female.	
Tinnevelly Mills ..	Spinning Mills ..	Mr. A. H. Harvey..	11th January 1890.	369	109	..	..	Absentees 66.
			23rd March ,,	476	..	41	..	I inspected the mills and the registers this morning (section 6). No child under the age of 7 years is employed (section 7). The 41 children, or half-timers as they are called, are said to work from 7 A.M. to 5 P.M., with an hour as an interval between noon and 1 P.M. No notice, with the information required by section 7, maintained (section 10). Attended to. A file of certificates in form C is maintained. Forms D and E are not maintained. Rule xxiii attended to. I give notice that as all the registers under section 11 of the Factory Act not kept up, I give three days' time within which the manager is required to maintain forms D, E and F, which latter is to be hung up in a conspicuous portion of the mills.
			25th ,, 1890 ..	..	..	..	..	*Remarks passed in form D (Register book of boys) note.* A column for serial number (1 to 2 to 3 and so on) should be opened. The column now opened (No. 1) does not contain serial numbers, but only the register number. Column 6 ought to contain the precise age given by the guardian, parent or medical authority. The entry "above 7 years" does not suffice. Remarks passed in form E (Weekly Muster Register of children), column 4. Precise age should be given. Column 8, rate of wages per month, not entered. In column 9, the amount is presumed to be in R. A. P. It should be so stated. The corrections in this column should be initialled and the register signed by the manager at the end of every week.
			24th April 1890 ..	320	129	35	..	Inspected the mills with Mr. Broth, Engineer. Points noted at last inspection attended to. Registers properly kept, and the points pointed out at last occasion correctly written up. Examined the half-timers. They come at 7 A.M. and work until noon when they are off for an hour for luncheon. They come back and work till 5 P.M.
			7th August 1890 ..	349	128	32	..	Inspected the mills and the registers. Half-timers work from 7 A.M. to noon and from 1 P.M. to 5 P.M. The interval is given for rest and food. Two half-timers work after 5 to-day. Kristna Naidu, son of Venkatasami Naidu, Tenkási, age 10, found at work at 5-30 P.M.; Palli, son of Hassan Paniyan, age 10, found at work. Registers written up to 2nd August; rough note books for days from 2nd to 7th August 1890.
			15th September 1890.	..	..	..	..	Reached the mills at 5-5 P.M. The half-timers are being forded across the river on their way home. Went inside the mills. No half-timers found at work. I went to the mills at about 5 P.M. to see expressly if half-timers were detained beyond the hours prescribed.
			16th ,, ,,	328	124	42	..	Absent 50. Inspected the mills with the Assistant Surgeon. Forty-two boys at work. They were numbered. Eight absentees. The average of absentees in September is as follows:—

2nd, 7; 3rd, 8; 4th, 7; 5th, 8; 6th, 7; 7th, 7; 8th, 6; 9th, 4; 10th, 6; 11th, 7, 12th, 10; 13th, 6; 15th, 8; 16th, 8; 1st and 14th were holidays. The half-timers were examined by the Assistant Surgeon and pronounced one 7 years old. Form D kept up. Number on the rolls, 50. Wages register kept up to week ending with 13th September.

From M.R.Ry. V. JAGANNADHAROW, General Duty Deputy Magistrate, Vizianagrum Division, to the District Magistrate, Vizagapatam, dated Vizianagrum, 26th February 1891, No. 54.

I have the honour to submit my report on the working of the Gunny Factory at Chittivalsa, belonging to Messrs. Arbuthnot and Co., for the calendar year ending 31st December 1890.

2. During the year under report, the factory was thrice inspected by me on the following dates:—

I.—On the 9th May 1890, between $6\frac{1}{2}$ and 7 A.M.
II.—On the 19th July 1890, between 7 and 8 A.M.
III.—On the 29th November 1890, between 7 and 8 A.M.

On these three occasions Mr. Innes, the Manager of the factory, was present with me at the time of inspection.

3. In this factory jute is cleaned, turned and woven, and eventually made into gunny bags. The engine is worked by steam, and its moving power is 77 nominal, and 220 actual, horse-power.

4. The factory was closed on nine English and nine Native holidays, besides Sundays, during the year. The working hours during the year were the same as those in the last year, viz., from 5-30 A.M. to 6-30 P.M., with a recess of one and half an hour, between 12 A.M. and 1-30 P.M., in the months of November to March, and two hours, from 12 A.M., from April to October. On Saturdays the engine stops at 4-30 P.M., allowing an interval of half an hour at noon.

5. The average number of persons employed during the year was 700. The number at work on the dates of inspection is as under:—

Month and date.	Males.		Females.	
	Above 16.	12 to 16.	Above 16.	12 to 16.
9th May 1890	356	217	74	3
19th July ,, ...	385	206	67	3
29th November 1890	379	208	82	4

No children below 12 years were employed in the factory.

6. The factory is generally whitewashed and cleaned once in every year. The whitewashing for the year 1889 was commenced on the 13th November and completed on the 31st December following; and for the year under report it was commenced on the 15th October and finished on the 25th November.

7. The latrines were being cleaned with the hot water that was let out from the engine.

8. There is proper ventilation for the rooms of the building. Though there is much dust in the preparing room, yet the workmen do their work with a cloth over their mouths as they are well accustomed to it.

9. The temperature in the working rooms on the dates of inspection was as follows:—

On the 9th May 1890	90°
,, 19th July ,, ...	83°
,, 29th November 1890	73°

10. The machinery has been protected either by iron rails or by iron and wooden shields in view to prevent all chances of accident, and it has also been fenced, wherever necessary or possible. The calendar rollers have been protected with small guide rollers for the purpose of conducting the cloth to the in-running side of the upper calendaring rollers. These are worked safely and with ease.

11. Two accidents were reported during the year 1890—

(1) On the 26th February 1890, Kanooree Guriah, a boy of 13½ years of age, received a cut under his left arm (which was not serious) by falling against a winding machine.

(2) On the 11th October 1890, Danthenada Swamy, a man aged 27 years, received a cut on the skin on the back of his right hand, while cutting a small piece of wood at the circular saw. The injury was not serious. Both these men were treated in the dispensary at Bimlipatam and they returned to duty on the 11th March and 28th October 1890, respectively.

12. Certificates of age were granted to all young persons employed in the factory in form C, appended to the rules, by the Civil Apothecary at Bimlipatam, who was appointed certifying Surgeon under section V of the Factories Act, 1881, and a file of these certificates is maintained as required by rule XIV.

13. Registers D and E are not maintained, as no children below 12 years are employed in the factory.

14. A notice of daily working hours and a list of holidays have been set up in an open place in the factory, and printed copies of the rules, with Telugu translations, have been posted on the outer walls of the office room.

15. The young persons entertained in the factory since the date of the last inspection were mustered by me at each inspection and found to be in a healthy condition.

16. Registers A and B, which are required to be kept in my office under rules 2 and 9, have been properly maintained.

17. A statement showing the number of persons employed on the last working day of the year is appended as required by paragraph 7 of G.O., dated 7th July 1885, No. 1760, Judicial Department.

ENCLOSURES.

STATEMENT showing the number of persons employed on the last working day of the year 1890, in the Gunny Factory at Chittivalsa, and the state of the Factory in regard to sanitation and ventilation :—

Name of District.	Name of Factory.	Number of persons employed on the last working day of the year.				Machinery whether fenced or not.	Ventilation and sanitation.
		Adults.		Young persons.			
		Men.	Women.	Males.	Females.		
Vizagapatam ..	Gunny Factory at Chittivalsa.	404	77	275	16	Properly fenced.	Good.

From C. INNES, Esq., Manager, Gunny Factory, Chittivalsa, to the General Duty Deputy Magistrate, Vizianagrum Division, dated Chittivalsa, 6th April 1891.

I have the honour to acknowledge receipt of your letter No. 109, dated 3rd instant, asking me how it is possible to work the factory between 5-30 and 6-30 P.M. without artificial light in the cold season.

I have never stated that the factory is so worked in the cold season. You must be referring to a general time and not to any special month or date.

On the 3rd January 1890, the hours were from 6-15 A.M. to 6 P.M.; on the 3rd June from 5-10 to 6-45; and on the 3rd December, from 6 to 5-50.

No. 506.

Submitted to Government.

2. This is the only factory in the district falling within the scope of the Act.

3. There were two accidents, but they were not of a serious nature.

4. In reference to paragraph 4 of the report, the Manager of the factory reports that the working hours were not uniform, as therein stated, throughout the year. A copy of his report is attached.

VIZAGAPATAM,
20*th April* 1891.

(Signed) W. A. WILLOCK,
District Magistrate.

From M.R.Ry. V. CHAPPAN MENON, Deputy Magistrate and Inspector of Factories, Calicut Division, to the District Magistrate of Malabar, dated Calicut, 22nd April 1891, No. 221-M.—G1.

I have the honour to submit my report on the working of the Factories Act in the Calicut division during the year 1890.

2. The only factory which falls within the scope of the Act is "the Malabar Spinning and Weaving Company (Limited)" in Panniyangara amsam, Calicut taluk.

3. I was appointed *ex-officio* Inspector of Factories in my division by the notification of Government published in the *Fort St. George Gazette*, dated 4th March 1890. I inspected the factory thrice in the course of the year, the results of which are recorded below :—

Name of Factory.	Date of inspection.	Number of persons employed.				Machinery whether fenced or not.	Ventilation and sanitation.
		Adults.		Children.			
		Males.	Females.	Males.	Females.		
The Malabar Spinning and Weaving Company (Limited), Calicut.	16th Aug. 1890.	273	33	36	..	Well fenced..	Building well ventilated and premises clean.
	18th Dec. ,, ..	263	23	57	6	do. ..	do.
	30th ,, ,, ..	257	24	52	6	do. ..	do.

4. At my first inspection various irregularities and defects were noticed; but I am glad to say that they were all removed in a very short time. The following is an abstract of the remarks recorded in the inspection register maintained under rule ix of the Factory rules :—

(1) *Factory Rules.*—A copy of the rules has been hung up in a conspicuous place in the factory as required by rule xxiii.

(2) *Certifying Surgeon's Certificate.*—The prescribed certificates had not been obtained for all the children working in the factory. The omission has since been supplied.

(3) *Register of Children.*—This register (form D) had not been correctly filled in, *e.g.*, columns 8 and 10, which indicate, respectively, the "date of first admission" and the "date of termination of employment or discharge" had been left blank. The omission has since been supplied.

(4) *Weekly Muster Register for Children.*—Maintained in the prescribed form E. At my first inspection, I learned from the children working at the factory that they were working from 6 A.M. to 6 P.M., with only half an hour's interval at midday for their meals. This was contrary to the distinct provisions contained in section 7 of the Factory Act and was pointed out to the manager who was warned both by me and by

the District Magistrate that prosecution would be resorted to if any similar infringement was noticed. The hours of business fixed in writing by the company are :—

For adults.—From 6 A.M. to 6-30 P.M., with half an hour's interval from 12 to 12-30 P.M.

For boys and girls.—From 7 A.M. to 5 P.M., with an hour's interval from 12 to 1 P.M.

(5) *Unregistered Children.*—In addition to the children whose names were entered in register E, I found several employed on piece-work for which they were paid according to the work turned out by them. These latter were, it appears, omitted owing to a misapprehension of the rules and were ordered to be registered at once.

(6) *Muster at Inspection.*—I held a muster of children at all my inspections.

(7) *Forms F and G.*—Properly maintained.

(8) *Fencing.*—In the room adjoining the engine room a railing was considered necessary to prevent accidents to persons passing through it. This suggestion was adopted by the manager.

(9) *Sanitation.*—The premises are kept clean and the buildings well-ventilated.

(10) *Holidays to Children.*—For some time the manager had omitted to give notice of holidays to the Inspector. The omission has since been supplied. Monthly notices are now regularly received.

5. A statement showing the number of accidents which occurred and the nature of the injuries received is enclosed. These accidents were duly reported to the Inspector and none proved fatal.

6. The statement prescribed in G.O., dated 7th July 1885, No. 1760, Judicial, is subjoined :—

Name of District.	Name of Factory.	Number of persons employed at the end of the year.				Machinery whether fenced or not.	Ventilation and sanitation.
		Adults.		Children.			
		Males.	Females.	Males.	Females.		
Malabar ..	The Malabar Spinning and Weaving Company (Limited).	254	23	52	6	Properly fenced.	Good.

7. In conclusion, I beg to note with satisfaction that the factory is now properly managed and that the instructions issued to the manager regarding the irregularities and defects noticed at the first inspection received his prompt attention. There was in consequence no occasion to resort to a criminal prosecution under the Act.

ENCLOSURE.

STATEMENT showing the number of accidents occurred in the Malabar Spinning and Weaving Company during 1890.

No.	Date of occurrence.	Name.	Caste.	Sex.	Age.	Nature of injury and how caused.	Remarks.
					YEARS.		
1	January, 14th ..	Ayalath Karappan	Tiyan	Male	17	Crushed finger, caused by picking waste wilfully from the wheels of the drawing frame whilst in motion.	Sent to hospital for treatment.
2	Do. 19th	Vadake Vittil Ali	Muhammadan ..	Do.	38	Cut on the leg, caused by the collapse (whilst moving) of temporary post on which balance scales were suspended.	Do. do.
3	Do. 19th	Alangath Koyakutti	Do. ..	Do.	41	Cut under the chin, caused by the collapse (whilst moving) of temporary post on which balance scales were suspended.	Do. do.
4	February, 16th ..	Madathil Raman	Nair	Do.	18	Crushed finger, caused by wilfully picking waste from wheels of the mule whilst in motion.	Do. do.
5	March, 15th	Kallachiparambath Chayichan	Tiyan	Do.	9	Severed the nail of the fore-finger, caused by wilfully putting his finger in the wheels of an hand rope machine.	Do. do.
6	Do. 22nd	Kalathumarath Appu	Nair	Do.	33	Fingers crushed in the wheels of the carding machine, caused by himself starting the machine and at the same time placing his hand on the machine.	Do. do.
7	April, 5th	Chambayil Andy	Tiyan	Do.	27	A piece of glass penetrated into his foot, caused by the person accidentally treading on a piece of broken glass.	Do. do.
8	May, 24th	Chirakkal Kandakutti	Do.	Do.	32	Two teeth knocked out and others loosened and lips cut, caused by the collapse of a ladder whilst the injured person was on the same.	Do. do.
9	Do. 24th	Paritholi Karappan	Do.	Do.	27	Slight cut on leg, caused by the collapse of a ladder whilst the injured person was on the same.	Do. do.
10	June, 27th	Thikotil Krishnan	Do.	Do.	12	Lacerated shoulder, caused by himself whilst sweeping the floor accidentally falling down and was struck on the shoulder by a pulley.	Do. do.
11	August, 21st	Kallath Sankaran	Nair	Do.	25	Left leg bruised, caused by the man keeping his leg on the roller of the machine whilst in motion.	Do. do.
12	Do. 25th	Pandishala Ramunni	Do.	Do.	28	Finger slightly cut, caused by the man wilfully keeping his hand on the carding engine whilst in motion.	Do. do.
13	Do. 27th	Ollady Vittil Govindan	Do.	Do.	18	Struck his head against the machine, caused while cleaning the mule and picking up the waste.	Do. do.
14	September, 12th ..	Palacooneth Raman	Do.	Do.	28	Had a fall but no external injury is found, caused by the man falling while cleaning the walls of the roving department.	Do. do.
15	Do. 26th ..	Abd-ul Sadar	Muhammadan ..	Do.	22	Fingers crushed, caused while cleaning the machine in motion.	Do. do.
16	December, 31st ..	Thachambalath Unneeri	Tiyan	Do.	19	A portion of a finger cut off, caused while cleaning a machine whilst in motion.	Do. do.

True copy, with the statement of accidents, submitted to the Chief Secretary to Government.

2. The inspection of the factory on the 16th August 1890 having disclosed a very unsatisfactory state of things, I informed the manager that no further warning or instructions would be given and that if the irregularities noticed, or others, were committed, prosecution would follow immediately.

The factory is now being properly managed.

CALICUT,
28*th April* 1891.

(Signed) J. W. F. DUMERGUE,
Acting Collector.

From G. S. FORBES, Esq., Acting District Magistrate of Tinnevelly, to the Chief Secretary to Government, dated Tinnevelly, 9th June 1891, No. 609.

As promised in paragraph 9 of this office letter, No. 397, dated 15th April 1891, I have the honour to forward herewith copies of the Head Assistant Magistrate's letter, No. 109, dated 24th May 1891, and my Proceedings thereon, No. 608, dated 8th June 1891.

ENCLOSURES.

From T. VARADA RAO, Esq., Acting Head Assistant Magistrate, Tinnevelly, to the District Magistrate, Tinnevelly, dated 24th May 1891, No. 109.

With reference to your docket, dated 21st April 1891, I have the honour to state in paragraph 4 of Mr. Rawson's letter referred to in your docket it is said that "since my inspection on 7th October 1885, however, the managers, Messrs. A. and F. Harvey, have ceased to employ any children and there were none employed on the day of my last visit." Thus the arrangement approved by Government fell through when children were ceased to be employed.

2. On 23rd March 1890 the managers began to employ half-timers or children under 12 years of age. They have been given one hour's rest in the middle of the day, and the working hours have been fixed from 7 A.M. to 5 P.M., as reported in their letter, dated 22nd May 1891. The permission of Government for the new arrangement was not obtained as required under section 7 of the Factory Act.

PROCEEDINGS of the District Magistrate of Tinnevelly, dated 8th June 1891, No. 608.

Read this office letter, No. 422, dated 21st April 1891, requesting the Head Assistant Magistrate to report why the arrangement approved by Government in 1885 regarding the working hours of children in the Factory at Pápanásam was departed from in 1890, and how long the practice of working children for 9 hours a day has been going on.

Read also letter from the Head Assistant Magistrate, No. 109, dated 24th May 1891, reporting that the permission of Government was not obtained for the new arrangement, and that the managers began to employ children from 23rd March 1890.

Order—

No explanation has been given for the neglect on the part of the Head Assistant Magistrate to notice sooner the breach of the rules. The managers should now apply for the requisite permission and explain their neglect to do so, the present hours of child labour being unauthorized. Until sanction is obtained, they must cease to employ children except in accordance with G.O., dated 28th October 1885, Mis. No. 2896, communicated with this office endorsement, No. 876, dated 4th November 1885.

(Signed) G. S. FORBES,
Ag. District Magistrate.

ORDER—dated 25th June 1891, No. 1246, Judicial.

It is observed that there is a considerable want of uniformity in the character of the returns submitted in connection with the inspection of factories, and the Government accordingly resolves to direct that in future the form prescribed in Appendix II to this Proceedings shall, to the exclusion of all others, be invariably adopted by Inspectors of Factories when submitting their annual reports. The form is so comprehensive that very little letter-press will be required in addition; the headings of the columns explain themselves; any remarks found necessary on the subject of accidents,

prosecutions, employment of children below the age of seven years, hours of work and such like will be given in the body of the Inspectors' reports. The statement will be printed on sheets of foolscap size, and will be supplied to all District Magistrates on indent by the Superintendent of the Government Press.

2. The reports—some of which were not received within the prescribed date notwithstanding the reiterated orders of Government on the subject—show that the number of factories falling under the operation of the Factories Act (XV of 1881) during 1890 remained unchanged, the figure being 30 as in the preceding year. This result is due to the appearance for the first time in the list appended to this Proceedings of the Coimbatore Spinning and Weaving Company's Factory, and to the omission therefrom, in accordance with the recommendation of the Inspector, of the Tuticorin Cotton Press belonging to Messrs. Darley, Butler and Co.

3. The number of inspections in the year under review was on the whole satisfactory, though less so than in the preceding year, three * factories having been insufficiently visited in 1890 as against one in 1889. Operations in the Coimbatore factory were commenced only from the 1st September last, but in the remaining two cases the factories are situated at the head-quarters of the Head Assistant and the Joint Magistrate, respectively, and could easily have been examined at least 3 times in the year as required by the rules. The explanations offered for the insufficient inspection of these two factories are not satisfactory.

* Government Workshops, Bezváda.
Tuticorin Cotton Press.
Coimbatore Spinning and Weaving Company's Factory.

4. The following errors and omissions are noticed in the preparation of the reports submitted:—

(1) The number of adult males given in the statement of employés appended to the Godávari report is 154, but this figure does not tally with the total of the details given at the foot of the statement.

(2) In the body of the report on the Nellikuppam Factory, it is stated that no children under 12 years of age were employed, but it is observed that some of the employés are shown as children in the statement of inspections. It has been pointed out on more than one occasion that all employés not below the age of 12 years should be classed as adults, and should not be referred to as children.

(3) Again, the repeated orders of Government that the term "Juvenile" should not be used in these reports have been infringed by the Inspectors of Factories at Aska and Adóni. In the former instance the Inspector appears to denote by this expression individuals not below the age of 12 years, whereas in the latter case children below that age seem to be referred to; this is an example of the confusion resulting from a lax terminology. The use by the Inspector of the Chittavalsa Factory of the expression "Young persons" to denote operatives above 12 years of age is equally objectionable.

(4) From the reports submitted, it is not in the majority of instances clear whether Registers D and E and the files of certificates in Form C have been maintained as required by Rules XV and XIV of the rules framed under the Factories Act. This point should not be neglected in future.

(5) Similarly, the Inspectors have generally omitted to state whether the notice in Form F under Rule XVI, and a copy of the rules framed under the Act, as well as the notice required by section 7 of the Act, have been exhibited in a conspicuous place in the factory. To avoid a recurrence of this omission, a special column for entries in connection with this subject has been provided in Appendix II.

(6) The majority of the Inspecting officers have also failed to state distinctly whether they mustered the children in accordance with Rule VII, and to report the number appearing at muster and the number absent. Particulars with regard to these points are necessary in order to detect any infringement of the rules forbidding the employment of children below the age of seven years.

5. The reports under review are generally satisfactory, and show that due attention is paid to the fencing of the machinery and to the ventilation and sanitation of the

premises. The condition of the preparing room in the Gunny Factory at Chittivalsa should be brought to the notice of the proprietors, with a view to remedying, if possible, the defect complained of.

6. When forwarding his report for 1889, the District Magistrate of Malabar had occasion to comment upon certain irregularities which were found to exist in the management of the Malabar Spinning and Weaving Company's Factory. These defects, some of which were of a grave character, were found to continue when the factory was first visited in the year under review. Similar irregularities were also noticed in the Pápánásam Cotton Spinning Factory. It is, however, reported that the defects observed were in both cases found at subsequent inspections to have been rectified. Considerable scope for improvement seems to exist in the case of the Coimbatore Spinning and Weaving Company's Factory, and it is observed that out of 249 children employed there on the 18th December 1890 only 23 were produced before the Inspector at muster on that date, and eleven of those examined by the Inspector seemed to him to be below the age of seven years. A careful inquiry should now be made into the subject of the employment of children in this factory, with a view to detecting any breach of the law. The action taken by the District Magistrate of Tinnevelly in regard to the Cotton Spinning Factory at Pápánásam, as reported in his letter dated 9th June 1891, No. 609, is approved.

7. There was a marked decline in the number of women employed in 1890, the figure being 1,092 against 1,358 in 1889. The number of children employed advanced, but, as remarked in paragraph 3 *supra*, 40 employés in the Nellikuppam Factory have been shown improperly, it would appear, as children in the Inspector's statement, and if these be excluded, there were 732 children employed in 1890 as against 399 in 1889 and 617 in 1888. The largest number of children was in the Coimbatore Spinning and Weaving Company's Factory.

8. The accidents numbered 117 in 1890 as against 103 in 1887 and 89 in 1888. The figure reported in the year under review appears to be the highest on record since the passing of the Factories Act, 1881. There was, however, as in the previous year, only one fatal accident in 1890, and that occurred at the Carnatic Mills, Madras, where fifteen other accidents are reported to have taken place. The number of cases in the Malabar Spinning and Weaving Company's Factory was also very large, and in the case of both these factories some of the accidents reported seem to suggest that the machinery is not sufficiently guarded. The figures in the margin show the number of hands employed in factories during the last 5 years.

1886	11,850
1887	13,332
1888	14,993
1889	16,890
1890	17,843

9. The Government hopes that Inspectors will show more care in preparing their reports in future; the reports are simple in character and the points to be specially noticed therein few, and it is unsatisfactory to observe the same errors and omissions occurring in them year after year.

(True Extract.)

J. F. PRICE,
Chief Secretary.

To all District Magistrates.
„ the Public Works Department.
„ the Inspector-General of Police.
„ the Commissioner of Police.
„ the Consulting Engineer for Railways.
„ the Superintendent of Government Press.

Exd. A. Raitt.

APPENDIX I.

No.	Situation. District.	Situation. Town or village.	Name of Factory.	Number of hands employed. Men.	Number of hands employed. Women.	Number of hands employed. Children.	Number of accidents.	Machinery whether fenced or not.	Ventilation and sanitation.
1	Bellary	Adóni	Messrs. Dymes and Co.'s Cotton Press ..	36	74	..	1	Not fenced but secure enough.	Good.
2	Do.	Bellary	The Bellary Spinning and Weaving Company.	369	71	30	7	Fenced	Do.
3	Do.	Do.	The Arsenal	216	..	..	..	Do.	Do.
4	Do.	Do.	Messrs. Dymes and Co.'s Cotton Press ..	8	..	..	..	Do.	Do.
5	Coimbatore	Coimbatore	The Spinning and Weaving Company ..	138	45	272	3	Properly fenced ..	Do.
6	Ganjam	Aska	Minchin Brothers' Sugar Factory ..	292	..	..	5	Securely fenced ..	Clean and well ventilated.
7	Godávari	Dowlaishweram ..	Government Workshop	145	3	40	1	Fenced	Good.
8	Kistna	Bezváda	Railway Workshop	310	..	5	..	Do.	Do.
9	Madras	Perambur	Gun Carriage Factory	2,938	..	..	8	Sufficiently fenced ..	Do.
10	Do.	Madras	South India Spinning and Weaving Mill ..	921	2	..	2	Yes	Do.
11	Do.	Do.	Harbour Works	781	20	..	6	Do.	Do.
12	Do.	Do.	Napier Works	724	31	..	15	Do.	Do.
13	Do.	Do.	Public Works Workshop	208	..	..	2	Do.	Do.
14	Do.	Do.	Madras United Spinning and Weaving Mill.	238	.. 2	..	5	Do.	Do.
15	Do.	Do.		672	48	26	6	Do.	Do.
16	Do.	Do.	Buckingham Mill	790	47	74	4	Do.	Do.
17	Do.	Do.	Carnatic Mill	1,479	79	24	16	Do.	Do.
18	Do.	Do.	*Cement Works*	84	96	..	..	Do.	Do.
19	Do.	Do.	*Bee-hive Foundry*	171	..	14	1	Do.	Do.
20	Do.	Do.	Messrs. Simpson and Co.	351	..	37	2	Do.	Do.
21	Malabar	Panniankara ..	Malabar Spinning and Weaving Co. ..	264	23	58	16	Properly fenced ..	Clean and well ventilated.
22	Nilgiris	Ootacamund ..	Murree Brewery Company	77	12	..	..	All securely fenced ..	Sufficient ventilation. Premises being cleaned and fair.
23	South Arcot ..	Tiruvennanallur ..	Messrs. Parry and Co.'s Sugar Factory and Distillery.	31	8	..	..	Properly fenced ..	Fairly good.
24	Do.	Nellikuppam	Messrs. Parry and Co.'s Sugar Mill, Refinery and Distillery.	491	56	40	7	Fenced	Good.
25	Tanjore	Negapatam ..	South Indian Railway Locomotive and Carriage Shops.	2,213	..	..	4	Sufficiently fenced ..	Good.
26	Tinnevelly	Tuticorin	Tuticorin Cotton Press Company ..	72	12	..	..	Fencing satisfactory.	Satisfactory.
27	Do.	Do.	The Coral Mill's Company (Limited)	356	184	110	2	Do.	Do.
28	Do.	Pápanásam ..	Cotton Spinning Factory	328	124	42	1	Properly fenced ..	Good.
29	Trichinopoly ..	Trichinopoly ..	South Indian Railway Engineering Workshop.	607	..	..	1	Sufficiently fenced ..	Do.
30	Vizagapatam ..	Chittivalsa ..	Messrs. Arbuthnot and Co.'s Gunny Factory.	679	93	..	2	Properly fenced ..	Do.
			Total Men ..	15,979	1,092	772	117		
			Women ..	1,092					
			Children ..	772					
			Employés ..	17,843					

APPENDIX II.

FORM of Return to be annually submitted by Inspectors of Factories, so as to reach Government by the 31st March.

1	2	3	4				5		6	7	8	9	10				11		12
Name and description of Factory.	Name of Resident Manager.	Date of Inspection.	Number of persons at work on the date of inspection.				Number of children mustered.		Whether Registers D and E and the file of certificates in Form C are kept.	Whether (1) Form F under Rule XVI, (2) a copy of the Rules framed under the Act, and (3) the notice required by section 7 of the Act, are put up in a conspicuous place.	Whether machinery is fenced or not.	State of ventilation and sanitation.	Number of persons employed at the end of the year under report.				Maximum number of hands employed on any day during the year.		Number of accidents during the year.
			Adults.		Children.								Adults.		Children.				
			Males.	Females.	Males.	Females.	Males.	Females.					Males.	Females.	Males.	Females.	Adults.	Children.	

GOVERNMENT OF MADRAS.

JUDICIAL DEPARTMENT.

READ—the following papers:—

From the District Magistrate,		North Arcot,	27th	January	1891,	No. 85.
,,	,,	Salem,	7th	March	,,	,, 432.
,,	,,	Tanjore	—	,,	,,	,, 385.
,,	,,	Chingleput,	1st	April	,,	,, 143.
,,	,,	Madura,	3rd	,,	,,	,, 23.
,,	,,	Trichinopoly,	3rd	,,	,,	,, 30-2.
,,	,,	Kurnool,	11th	,,	,,	,, 1534.
,,	,,	Cuddapah,	12th	,,	,,	,, 25, Extra.
,,	,,	South Canara,	13th	,,	,,	,, 1403.
,,	,,	Anantapur,	15th	,,	,,	,, ——.
,,	,,	Nellore,	17th	,,	,,	,, 521.

ABSTRACT.—Stating that there were no factories at work in the districts during the year 1890.

From L. C. MILLER, Esq., Acting Joint Magistrate, Godávari District, to the Acting Magistrate, Godávari District, dated Rajahmundry, 9th January 1891, No. 15.

I have the honour to submit the following report on the working of the Factories Act XV of 1881 in my division during 1890.

2. The Government Workshop at Dowlaishweram is the only factory coming within the scope of the Act. It was inspected by me three times during the year. Extracts from the Register B, containing my remarks at the time of inspection, are enclosed.

3. There was proper ventilation, and everything was in good order.

4. All dangerous machinery was properly fenced.

5. On the morning of the 28th November 1890, a cooly named Pedrazu Perigadu, a Madiga, aged 20, received an injury while putting on a belt on a pulley. Both bones of his right forearm were broken. The place and manner of the accident were shown me at my inspection on 1st December 1890. The accident was due to the man's own carelessness, but the operation of putting a band over a pulley in motion is doubtless somewhat dangerous.

6. The working hours were, as usual, from 6 A.M. to 12 noon and from 2 to 5 P.M.

7. The statement prescribed by Government in its Order, No. 1760, dated 7th July 1885, is enclosed.

ENCLOSURES.

STATEMENT showing the number of persons employed at the end of the year 1890 in the Government Workshop, Dowlaishweram.

Name of the District.	Name of the Factory.	Number of persons employed at the end of the year 1890.				Machinery whether fenced or not.	Ventilation and sanitation.
		Adults.		Children.			
		Males.	Females.	Males.	Females.		
Godávari District ..	Government Workshop ..	145 *	3 †	40 ‡	..	Fenced ..	Good ..

* 21 Fitters. 3 Fitters' boys. 24 Lascars 32 Carpenters. 14 Moulders. 19 Smiths. 16 Hammer men.
2 Painters. 3 Carpenters' boys. 10 Coolies. 1 Scavenger. —— 145 ——
† 1 Scavenger. 2 Coolies. — 3 —
‡ 3 Fitters' boys. 8 Carpenters' boys. 6 Apprentices. 5 Coolies. 18 Bellows boys. — 40 —

FORM B.

REGISTER of inspections of factories under Rule 9 of rules made under section 18 of the Indian Factories Act, 1886. Joint Magistrate's Division, Godávari District, for 1890.

Number of Factory in Register A.	Name or description of Factory.	Name of occupier or manager.	Date of inspection.	Number of persons at work on date of inspection.				Remarks.
				Adults.		Children.		
				Males.	Females.	Males.	Females.	
1	Government Workshop, Dowlaishweram.	Government.	1890. 12th August..	143	..	..	..	Of the boys mustered, none appeared to be under twelve. The notices and copy of rules required were duly exhibited. Dangerous machinery, as usual, properly fenced. (Sd.) L. C. MILLER, *Ag. Joint Magistrate.*
			30th September	169	..	..	..	Machinery securely fenced, ventilation, &c., good. No children were working. (Sd.) L. C. MILLER, *Ag. Joint Magistrate.*
			1st December.	201	..	..	..	Machinery fenced as usual. No children. (Sd.) L. C. MILLER, *Ag. Joint Magistrate.*

No. 5.

Submitted to Government with the enclosures.

2. The workshop at Dowlaishweram is the only factory in the district.

COCANADA,
22*nd January* 1891.

(Signed) L. MOORE,
Ag. District Magistrate.

From J. T. LEVER, Esq., General Deputy Magistrate, Goomsur Division, to the District Magistrate, Ganjam, dated Russellkonda, 2nd February 1891, Disposal No. 36-Mag.

I have the honour to submit my report on the working of the Aska Sugar Factory belonging to Messrs. Minchin Brothers and Co., for the calendar year 1890.

2. During the year under report the factory was thrice inspected—

Firstly, by M.R.Ry. A. Suryanarayana Naidu Garu, General Deputy Collector, on the 31st March 1890.

Second and thirdly, by me, on the 30th September and 17th December 1890, respectively.

3. No children under the age of 12 years were employed.

4. The work people are divided into two classes—the first class consisting of mechanics who work by day only, from sunrise to sunset, with an interval of two hours, while the second class work both by day and by night in the sugar manufacture. The latter class is divided into two equal sets, who work alternately for six hours —from 8 to 2 and 2 to 8. This is done every day including Sundays and holidays. The sugar manufacture was stopped from 5th November last, and there was no night work from that day.

5. During the sugar-cane season the second class is divided into three sets, who work in shifts of four hours—from 8 to 12, 12 to 4 and 4 to 8.

6. The machines were carefully supervised by the Factory Engineer and all dangerous machinery continues to be securely fenced.

7. All the requisite notices were hung up conspicuously.

8. As usual, the factory is kept clean with free ventilation and the factory and premises are in a satisfactory condition. I have received every assistance in my inspections from the manager.

9. Five accidents were reported to me during the year under review, and the injured persons were treated successfully in the Local Fund dispensary at Aska. A statement showing the details of each case is appended :—

Date of accident.	Name.	Caste.	Sex.	Age.	Nature of injury.
				YEARS.	
18th February 1890.	Boisomo	Alliah	Male.	30	The top part of the first finger of the right hand was severely cut by an accident, which had nothing to do with the machinery.
29th May 1890 ..	Arthosetty	Dhobi	Do.	35	Accidentally fell down by his own neglect in the wash tank while he was mixing the wash with a wooden rod, and by doing so he fell on an iron bar across the tank, and thus injured his private parts seriously.
27th August 1890.	Totha	Dandasy ..	Do.	17	The first joint of one finger of the right hand crushed and two other fingers bruised.
5th October 1890.	Chondro Naiko ..	Bavuree ..	Do.	40	Fell on the steps of fire room place by which he injured the right side of the body slightly. The injury was slight as the man was reported to have returned to his duties in two days.
8th Nov. 1890 ..	Lockonosetty ..	Dhobi	Do.	40	Bruised his left leg in several places by falling down five steps of the factory staircase leading to the diffusion vessel dischargers. The accident happened through his own carelessness, as, after completing his night patrol with the maistry, he left the panstage for the purpose of nature without availing himself of one of the factory lanterns ready at the panstage or taking hold of one of the two side hand-railings of the staircase.

10. I beg to append a statement showing the results of the inspections :—

Name of Factory.	Date of inspection.	Number of persons employed.				Machinery whether fenced or not.	Ventilation and sanitation.
		Adults.		Juveniles.			
		Men.	Women.	Males.	Females.		
Sugar Factory at Aska	31st March 1890 ..	422	..	..	..	Securely fenced ..	Clean and well ventilated.
	30th September 1890.	361	..	77	..	Do. ..	Clean and well ventilated.
	17th December 1890.	244	..	48	..	Do. ..	Clean and well ventilated.

Submitted to Government, with reference to G.O., dated 26th August 1884, No. 2177, Judicial Department.

CHATRAPUR,
16*th February* 1891.

(Signed) E. C. JOHNSON,
District Magistrate.

From L. M. WYNCH, Esq., Acting Head Assistant Magistrate, Kistna, to the District Magistrate, Kistna, dated Bezváda, 4th February 1891, No. 225.

I have the honour to submit my report under the Factories' Act XV of 1881 for the calendar year 1890.

2. There is only one factory in this division, viz., the Department of Public Works Workshop, Bezváda, which is under the charge of the Executive Engineer, Eastern Delta.

3. This factory was twice inspected on 17th May 1890 and 21st October 1890.

4. The registers prescribed by the rules were properly kept. A copy of the rules in English and Telugu, and a table of working hours and holidays, are posted up.

5. The hours fixed are from 6 A.M. to 6 P.M., with two hours' interval, that is, ten hours in all.

6. No prosecutions were ordered under the Act during the year.

7. No accidents were reported in the year.

8. There were five children employed during the year, who were duly mustered under Rule VII at each inspection.

9. The usual tabular statement is enclosed.

10. I was unable to make a third inspection in December as I had to go into camp almost immediately after resuming charge. An early opportunity will be taken to repair the omission this month.

ENCLOSURE.

Name of Division.	Name of Factory.	Number of persons employed.				Machinery whether fenced or not.	Ventilation and sanitation.	Date on which examined.
		Adults.		Children.				
		Men.	Women.	Male.	Female.			
Head Assistant Magistrate's Division.	Government Workshop, Bezváda.	338	..	5	..	Fenced..	Good ..	17th May 1890.
		310	..	5	..	Do. ..	Do. ..	21st Oct. ,,

No. 139.

Forwarded to the Chief Secretary to Government, Judicial Department. This is the only factory in the district.

MASULIPATAM,
10*th February* 1891.

(Signed) A. T. ARUNDEL,
District Magistrate.

From R. SEWELL, Esq., District Magistrate, Bellary, to the Chief Secretary to Government, dated Bellary, 16th February 1891, M.P.R. No. 38.

I have the honour to submit copies, with copies of enclosures of reports, received from the Divisional Magistrates marginally noted, on the working of factories for the year 1890, and to state that there are no factories in Hospet division.

Deputy Magistrate, Bellary's letter, dated 2nd January 1891, No. 1.
Deputy Magistrate, Adóni's letter, dated 16th January 1891, No. 28.

ENCLOSURES.

From B. H. CHESTER, Esq., Deputy Magistrate and Inspector of Factories of Bellary Division, to the District Magistrate, Bellary, dated Bellary, 2nd January 1891, No. 1.

I have the honour to submit the usual report on the working of the factories in the Bellary division during the calendar year 1890.

2. Three factories continued under inspection. I visited each three times during the year on the following dates :—

(1) The Bellary Spinning and Weaving Mills,—7th July, 19th August, 11th December.
(2) The Bellary Arsenal,—11th July, 13th September, 17th November.
(3) Messrs. Dymes and Co.'s Cotton Press,—18th July, 21st August, 29th September.

3. Children are employed only in the Bellary Spinning and Weaving Mill. No girls are employed. At each inspection I had the children mustered. They looked healthy and strong and in no case did I see a child under seven years of age.

4. The requisite notices were duly exhibited in all three factories.

5. The arrangements for sanitation and ventilation were good.

6. There were no prosecutions during the year.

7. There were no accidents at the Arsenal or Messrs. Dymes and Co.'s Cotton Press, but there were seven accidents at the Bellary Spinning and Weaving Mill. Statement A shows in detail the name of person injured, the nature of the accident, date of injury, and date of return to work. There were no fatal accidents. Those injured were paid full wages during the period they were in hospital. Inquiries made by me show that the accidents were due to carelessness on the part of employés.

8. Statement B enclosed shows the number of persons employed at each inspection and the state of the factories in regard to sanitation and ventilation.

STATEMENT A.

Name.	Nature of injury.	Date when injured.	Date when returned to duty.
1. Syed Offin ..	Injured second finger of his left hand while working.	28th January 1890.	22nd February 1890.
2. Narayen ..	Fell on the mule spindle and injured his back.	4th March „	4th May „
3. Hearanna ..	Injured his back while putting up leather belting.	12th May „	27th „ „
4. Ellappa Chetty.	Injured the second finger of his left hand while working.	30th June „	8th August „
5. Burandeen ..	Injured two fingers of his left hand while working a drill.	15th July „	31st July „
6. Venkatasamy ..	Fractured right hand and middle finger while cleaning machinery.	24th August „	4th November „
7. Gurulingappa.	Injured the wrist and elbow of his left hand while cleaning machinery.	30th November „	Still attending hospital.

STATEMENT B.

Name of Factory.	Date of inspection.	Persons employed.					Machinery whether fenced or not.	Ventilation and sanitation.
		Adults.		Children.		Total.		
		Men.	Women.	Male.	Female.			
Bellary Spinning and Weaving Mill.	7th July 1890 ..	356	90	34	..	480	Fenced.	Good.
Bellary Arsenal	11th do. do. ..	253	..	..	..	253	Do.	Do.
Messrs. Dymes & Co.'s Cotton Press.	18th do. do. ..	50	85	..	..	135	Do.	Do.
Bellary Spinning and Weaving Mill.	19th August 1890 ..	330	84	34	..	448	Do.	Do.
Messrs. Dymes & Co.'s Cotton Press.	21st do. do. ..	48	80	..	..	128	Do.	Do.
Bellary Arsenal ..	13th September 1890	186	..	..	..	186	Do.	Do.
Messrs. Dymes & Co.'s Cotton Press.	29th do. do.	8	45	..	..	53	Do.	Do.
Bellary Arsenal ..	17th November do.	216	..	..	..	216	Do.	Do.
Bellary Spinning and Weaving Mill.	11th December do.	369	71	30	..	470	Do.	Do.

From M.R.Ry. G. KOTHANDARAMAYYA Garu, Sub-Divisional Magistrate, Adóni, to the District Magistrate, Bellary, dated Adóni, 16th January 1891, No. 28.

I have the honour to submit my report on the working of the only factory in this division, viz., Messrs. Dymes and Co.'s Cotton Press at Adóni, for the year 1890.

2. In this factory cotton is pressed into bales with the aid of a steam engine of 20-horse power with two cylinders and a boiler. There is also a ginning machine worked by an engine of 24-horse power. Besides these engines there is within the precincts of the factory a portable engine of 6-horse power which is said to have been originally set up in connection with machines for boring and turning and not in use now.

3. During the year under report the factory was inspected five times by my predecessor and once by me on the following dates.

I. On 14th May.
II. „ 11th June.
III. „ 18th July.
IV. „ 1st September.
V. „ 28th „
VI. „ 23rd December.

4. The building is fairly neat and sufficiently ventilated.

5. The work people were found to be cheerful and healthy.

6. The working hours are from 6 A.M. to 6 P.M., with sufficient intervals for meals and recreation.

7. The machinery though not regularly fenced is kept in a separate room to which people, other than those who work with it, have no access.

8. Only one accident was reported during the year under report. On the 20th December, at 9 A.M., one Yellappa, a pressman, had his thumb injured while working a planing machine. The injury was not a very serious one, though it prevented him from attending to his work for about a week.

9. No children below 12 years being employed in the factory. Registers D and E have not been maintained.

10. A copy of the rules and a label of working hours are duly posted up, but the latter was not in the form prescribed by the rules. The Agent's attention was called to this.

11. No prosecutions were ordered under the Act during the year.

12. Registers A and B are maintained in my office.

13. A statement in the form prescribed in paragraph 7 of G.O., dated 7th July 1885, No. 1760, Judicial, is enclosed.

STATEMENT showing the number of persons employed at the end of the season and the state of the Factory with reference to sanitation and ventilation.

Name of District.	Name of Factory.	Number of persons employed at the end of the season.				Machinery whether fenced or not.	Ventilation and sanitation.
		Adults.		Juveniles.			
		Males.	Females.	Males.	Females.		
Bellary ..	Messrs. Dymes and Co.'s Cotton Press at Adóni.	36	74	..	..	Though not fenced is secure enough, being placed in a separate room altogether set apart for the purpose and not accessible to anyone else but the driver.	Good.

Report on Railway Factories for the year 1890.

The number of Railway Factories for 1890 remained the same as those of 1889. The dates on which they were inspected are shown below :—

Madras Railway, Perambúr Works .. .. — 21st February. 14th August. 19th December.

South Indian Railway, Engineering Works, Trichinopoly .. — 19th February. 25th August. 9th December.

Do. do. Loco. and Carriage Shops, Negapatam — 15th February. 21st August. 25th September.

2. A detailed statement of accidents reported during the year, together with a list of Factories, is herewith enclosed.

3. None of the accidents were serious.

(Signed) SIDNEY SMITH, Major, R.E.,
Inspector of Railway Factories.

ENCLOSURES.

DETAILED Statement of Factory Accidents on the Madras and South-Indian Railways for 1890.

Railway.	Factory.	Date. Month.	Date. Day.	Remarks.
Madras Railway.	Perambúr Works.	January ..	21st ..	Three fingers of right hand of a cooly were severely hurt by the accidental fall of an axle box which he was carrying.
		February ..	18th ..	The right eye of a boilersmith was severely hurt owing to a chip from a rivet, which he was cutting, striking it.
		May ..	3rd ..	The left leg of a chargeman was scalded by his accidentally putting it in front of a pipe, out of which steam was passing.
		,, ..	14th ..	The right eye of a cooly was severely hurt by a spanner, which he was using at the time, accidentally slipping and striking him on the eye.
		,, ..	26th ..	Two fingers of left hand of a cooly got jammed between a fuel truck, which he was pushing, and a firewood bin.
		September ..	2nd ..	While a moulder was casting, some molten metal, squirting from the mould, flew into his eye and destroyed his vision.
		October ..	27th ..	A machineman was hurt by his accidentally tripping and falling against a projecting portion of a drilling machine.
		,, ..	28th ..	A cooly was hurt by a piece of timber which he was cutting on a saw bench springing up and striking him on the head.
South Indian Railway.	Engineering Workshops, Trichinopoly.	June ..	28th ..	A sawyer was wounded in the right arm while cutting reapers at the circular saw.
Do. ..	Negapatam Workshops.	March ..	12th ..	A smith was hurt while drawing iron under the steam hammer by his right index finger being caught between the handles of tongs.
		July ..	5th ..	A painter was hurt by a tressel falling on his leg.
		,, ..	11th ..	A smith was hurt in his foot by a piece of iron flying out while punching a draw bar plate under the steam hammer.
		November ..	16th ..	A fitter, while carrying a spring, attempted to jump across a pit, when the spring slipped and fell on his toe.

List of Factories.

Name of District.	Name of Factory.	Number of hands ordinarily employed. Adults. Men.	Adults. Women.	Children. Males.	Children. Females.	Machinery whether fenced or not.	Ventilation and sanitation.
Madras	Perambúr Railway Workshops ..	2,872 to 3,004	...	..	..	Sufficiently fenced.	Good.
Trichinopoly ..	South Indian Railway Engineering Workshops, Trichinopoly.	575 to 639	..	..	..	Do. ..	Do.
Tanjore ..	South Indian Railway Loco. and Carriage Shops, Negapatam.	2,180 to 2,246	..	..	..	Do. ..	Do.

No. 281.

Submitted to Government, with reference to G.O., dated 9th February 1883, Nos. 329-30, Judicial.

MADRAS, 11*th March* 1891.

(Signed) SIDNEY SMITH, Major, R.E.,
for *Offg. Consulting Engineer for Railways.*

To the Chief Secretary to Government, Judicial Department.

From A. M. JONES, Esq., Deputy Magistrate and Inspector of Factories, Nílgiris, to the District Magistrate, Nílgiris, dated Ootacamund, 25th March 1891, No. 255.

I have the honour to submit my report on the working of the Indian Factories Act (XV of 1881) during the year 1890.

2. There is only one Factory in the district under the operation of the Act, viz., the Murree Brewery, Ootacamund Branch.

3. I inspected the Brewery thrice during the year under report, viz.:—

on 8th July 1890,
,, 31st ,, ,, and
,, 20th Dec. ,,

4. There were no accidents in the establishment. Registers C, D and E were written up to date, the latter two being blank. The rules and time of work, viz., 7 to 12 A.M. and 1 to 5½ P.M., were hung up in conspicuous places.

5. There has been no increase or change in the engines which were well protected, and the place was clean and well ventilated.

6. The manager, Mr. J. W. Howard, sees all the rules under the Act complied with.

7. The usual tabular statement is herewith submitted.

ENCLOSURE.

STATEMENT showing the number of persons employed during the year 1890 in the Murree Brewery, Ootacamund Branch.

Name of Factory.	Date of inspection.	Number of persons employed. Adults. Men.	Adults. Women.	Children. Males.	Children. Females.	Machinery whether fenced or not.	Ventilation and sanitation.
Murree Brewery Company, Ootacamund Branch.	8th July 1890 ..	103	11	..	..	All securely fenced.	Clean and well ventilated.
	31st ,, ,, ..	96	12	..	..		
	20th Dec. ,, ..	77	12	..	..		

No. 269.

Submitted to Government.

26*th March* 1891.

(Signed) C. F. MACCARTIE,
District Magistrate, Nilgiris.

From Colonel T. WELDON, C.I.E., Commissioner of Police, to the Chief Secretary to Government, dated Madras, 28th March 1891, No. 21.

I have the honour to submit the annual report for the year 1890 of the Deputy Commissioner of Police as Inspector of Factories in the City of Madras.

ENCLOSURES.

From S. D. SIMPSON, Esq., Deputy Commissioner of Police and Inspector of Factories, to the Commissioner of Police, dated Madras, 26th March 1891, No. 8.

I have the honour to submit my report, under the Factories Act (XV of 1881), for the calendar year 1890.

2. There are eleven factories in the City of Madras, and they were visited by me at least three times during the year in accordance with the prescribed rules. The statement below shows the number of times I inspected each of them, the number of persons employed, and the state of the factories in regard to sanitation and ventilation :—

Name of Factory.	Dates of inspection.	Number of persons ordinarily employed.				Number of accidents.	Machinery whether fenced or not.	Ventilation and sanitation.
		Adults.		Children.				
		Men.	Women.	Males.	Females.			
	1890.							
Gun Carriage Factory ..	29th March .. 18th July .. 9th October .. 17th December ..	921	2	..	..	2	Yes ..	Good.
Southern India Spinning and Weaving Mill.	25th March .. 12th May .. 18th July .. 29th October ..	781	20	..	..	6	,, ..	,,
Harbour Works ..	25th March .. 30th June .. 28th October ..	724	31	..	..	15	,, ..	,,
Napier Works	27th March .. 17th July .. 27th December ..	208	..	..	..	2	,, ..	,,
Public Works Workshops	26th March .. 9th July .. 16th December ..	238	2	..	..	5	,, ..	,,
Madras United Spinning and Weaving Mill.	28th March .. 15th July .. 28th November .. 29th December ..	672	48	26	..	6	,, ..	,,
Buckingham Mill ..	28th March .. 15th July .. 28th November .. 29th December ..	790	47	63	11	4	,, ..	,,
Carnatic Mill	28th March .. 15th July .. 28th November .. 29th December ..	1,479	79	24	..	16	,, ..	,,
Cement Works	27th March .. 17th July .. 27th December ..	84	96	..	..	..	,, ..	,,
Bee-hive Foundry ..	26th March .. 30th June .. 30th December ..	171	..	14	..	1	,, ..	,,
Simpson and Co. ..	29th March .. 18th July .. 9th October .. 17th December ..	351	..	37	..	2	,, ..	,,

3. *Children*.—The Buckingham and Carnatic Mills continue to employ children as usual and have on their rolls 74 and 24, respectively. The former began the year with 112 children, admitted 84 during the year, transferred 46 to the adults' register, and struck off 76 as absentees. The latter commenced with 63 children, admitted 39, struck off 39, and transferred the same number to the adult class. The Madras United Spinning and Weaving Mill and Messrs. Simpson and Co. also employed children during the year as shown in the above statement. The children seen by me at all my inspections appeared to be well looked after, were allowed the usual holidays and were employed as required by the Act.

4. *Accidents*.—I append a list* of accidents during the year. There were 59 against 60 in 1889. Statement A gives in detail the number in each Factory, how each occurred, and the extent and description of the resulting injury. In all but 17 * cases the harm done was of a trivial nature, and in only one was death the issue. This case occurred in the Carnatic and was caused by the breaking, accidentally, of the branch pipe, at feed valve to boiler. Early on the morning of the 7th November 1890, the 2nd fireman (Ramen) on duty, noticing that one of the pipes was leaking, called the attention of the deceased, Anthony, the 1st fireman, to it, who at once repaired to the spot, inspected the pipe and, finding there was too much pressure, directed fireman Ponnusamy, who was firing at the time, to lessen the fire. The man Ramen, very fortunately for himself, had just stepped aside to get a shovel, when an explosion occurred, and the steam thus released filling the room, concealed from view the machinery and fireman, for about 15 minutes. When the atmosphere cleared, the deceased Anthony and fireman Ponnusamy were seen rolling about in the open. The former was badly scalded in the lower extremities, right shoulder and chest, and the latter, less severely on both legs. They were both conveyed to the General Hospital, where they were immediately attended to. Ponnusamy was discharged in 15 days, but Anthony died on the 25th November from congestion of internal organs and exhaustion, the result of extensive scalds. An inquest * was held by the Police and the following statement by the Engineer in charge recorded at this inquisition :—

* Verdict, accidental.

* * * * *

"I made an examination and found that the feed-pipe had broken in two, and this must have caused a sudden escape of boiling water and thus have scalded these two men. I examined the gauge and found that it indicated 118 lb. pressure. There might have been a greater pressure before I came up, but it could not have been much more, perhaps about two pounds more which came down through the breakage. We never work with more than 125 lb. pressure, and the boiler is quite capable of standing this pressure, as it has been tested to stand three times or greater strain. The boiler and all its components were in good working order as far as I could see, but after the accident I discovered that there had been a slight flaw in the strengthening rib of the feed-pipe and ascribe the accident to this. This flaw could not have been discovered unless the pipe had leaked, but there was no leak whatever when we closed work the previous evening. I do not believe that the pipe broke from over-pressure of steam, as in that case it would have burst into fragments and not in two as it has happened. We examine our boilers about once a month, and when I last examined this boiler, together with the pipes, &c., which was about three weeks previously, I found everything sound."

5. In the Harbour Works, there were fewer accidents, but in the Carnatic Mill, I regret to say, a larger number—fully double that of last year (1889). Most of them occurred through carelessness on the part of the operatives themselves.

STATEMENT A.

Name of Factory.	Name of persons injured.	Date of accident.	Caste.	Sex.	Age.	Nature of injury.
		1890.			YEARS.	
Gun Carriage Factory	Cunniappen	26th March	Hindu	Male	42	Second and 3rd fingers of left hand injured. Right side of his head and chin bruised by the fall of scales.
Do. do. ..	Valayooden	28th August	Do.	Do. ..	39	* Thumb of the right hand severely cut, while working at a circular sawing machine.
Southern India Spinning and Weaving Mill, Rayapuram.	Shaikh Abd-ullah	30th April	Mahomedan ..	Do. ..	25	One of the right hand fingers slightly injured by negligently putting his hand in one of the drawing machines to pick waste, while in motion.
Do. do. ..	Mustafa	10th May	Do. ..	Do. ..	13	Two fingers of right hand injured by putting his hand in the back roller machine to pick up cotton therefrom.
Do. do. ..	Vencatasawmy	5th July	Hindu	Do. ..	40	Three fingers of the right hand cut by negligently cleaning the scutcher while it was running.
Do. do. ..	Authimoolum	13th August	Do.	Do. ..	30	Slight injury in the right hand palm by negligently cleaning the engine while in motion.
Do. do. ..	Periyasawmy	31st October	Do.	Do. ..	35	Injured on the head by circular saw machine.
Do. do. ..	Moonisawmy	13th November	Do.	Do. ..	14	* Right arm bone broken between wrist and shoulder and 2 front teeth broken by tumbling down the stair case.
Harbour Works	Ramasawmy	5th January	Do.	Do. ..	35	Swelling of the left knee caused by a piece of timber striking his knee.
Do.	Nunnoomeah	8th ,, ...	Mahomedan ..	Do. ..	30	Wound on the right foot caused by a skip-truck wheel passing over his foot.
Do.	Sultan Muhi-ud-din	10th ,, ...	Do. ..	Do. ..	32	A finger on his left hand wounded by placing his finger under stone-crusher jaw.
Do.	Chinnian	15th ,, ...	Barber	Do. ..	30	Wound on the right leg caused by having been struck by winch handle.
Do.	Rajagopaul	15th February	Hindu	Do. ..	40	* Jammed his right hand, having it caught in the machine.
Do.	Annapoorani	19th March	Boatwoman ..	Female ..	11	A wound on the right leg caused by a block-truck wheel passing over it.

STATEMENT A—*cont.*

Name of Factory.	Name of persons injured.	Date of accident.	Caste.	Sex.	Age	Nature of injury.
		1890.			YEARS.	
Harbour Works	Paripooranum	26th March	Native Christian ..	Male	39	*Fracture of right wrist and right thigh caused by the man falling off the South Pier Titan-ladder.
Do.	Moothial Chetty	1st May	Hindu	Do.	40	*Had the big toe of his left foot smashed by the light Traveller crab-wheel passing over it.
Do.	Ponniaen	4th July	Do.	Do.	25	*Big toe of his right foot smashed by a skip-truck wheel passing over it.
Do.	Rungiah	7th ,, ...	Do.	Do.	20	*Big toe of his right foot smashed by a skip-truck wheel passing over his foot.
Do.	Mathuray	18th ,, ...	Do.	Do.	21	*Big toe of his left foot smashed by a skip-truck wheel passing over it.
Do.	Muhammad Seeda	1st September	Mussalman ..	Do.	42	*Wound on the right leg caused by a crab-wheel of Titan crane, South Pier, tilting over his leg.
Do.	Veerasawmy	24th November	Hindu	Do.	30	*Big toe of right foot smashed by a skip-truck wheel passing over his foot.
Do.	*Edwards*	6th December	Eurasian	Do.	18	*The first finger of his left hand was severed at the first joint, by his finger getting caught in the cog-wheel of a drilling machine.
Do.	Auroomoogum	8th ,, ...	Hindu	Do.	49	Hurt the shin bone of his left leg by slipping off a plank.
Napier Works	Nagan	27th February	Yathava	Do.	30	Hurt on back of hand caused by strap on drilling machine, by his own carelessness.
Do.	Thoppay	19th December	Pariah	Do.	33	*Toe smashed while moving iron bars.
Public Works	R. Halge	7th February	Eurasian	Do.	14	*Centre finger of right hand severely cut by the cog-wheel of the Governor's of a vertical boiler and engine, when being cleaned.
Do.	Periyathumbee	19th March	Vellala	Do.	36	Big toe of left foot slightly wounded by the fall of a Grainger Pan scale's stand on the foot while lifting the stand.
Do.	P. Moonisawmy	25th June	Vannu	Do.	35	*A severe wound on the forehead from a hammer caused by the head of a hammer accidentally striking the forehead while he was on duty.

STATEMENT A—*cont.*

Name of Factory.	Name of persons injured.	Date of accident.	Caste.	Sex.	Age.	Nature of injury.
		1890.			YEARS.	
Public Works	J. Pereira	11th September ..	Eurasian	Male	14	Second finger of left hand jammed by the wheel gear of a drilling machine, while at work with it.
Do.	Thepperumall	22nd ,, ...	Vunneah	Do.	15	Forefinger of the left hand cut by a chisel while working, caused by a carpenter's chisel cutting the finger while using the same at mill.
Madras United Spinning and Weaving Mill, Choolay.	Shaikh Kazim	19th March	Mussalman ..	Do.	13	* Severe crushing caused by being caught between the two tin rollers of a throstle.
Do. do. ..	Poonniacotty	12th April	Pillay	Do.	35	Injury to fingers of the right hand caused by putting his hand on the beater while in motion.
Do. do. ..	Ramachendran	26th ,, ...	Moodelly	Do.	50	Injury to the 2nd finger of left hand caused by placing his hand on the Governor of the engine carelessly.
Do. do. ..	Ragavaloo	12th October	Oopparavan ..	Do.	15	Cut on the right arm and right foot by his own negligence by getting his hand caught by the iron pulley while cleaning.
Do. do. ..	Moonisawmy	30th November ..	Naiken	Do.	17	Bruising of the 2nd finger of the left hand caused by carelessly putting his hand under the rollers of a mule.
Do. do. ..	Moonisawmy	1st December	Naidu	Do.	20	Slight laceration on left hand and shoulder caused by carelessly getting his hand caught by rollers of a throstle while piecing.
Buckingham Mill	Thachana Moorthy	19th February	Moodelly	Do.	13	Injury to the 3rd finger of right hand caused by his carelessness by putting his finger in the wheel of roving machine.
Do.	Mathuray	4th March	Do.	Do.	25	Loss of 2nd finger of right hand by getting trapped in Governor of engine.
Do.	Kasaven	10th July	Hindu	Do.	13	Injury to the 1st joint of 1st finger of right hand caused by his own carelessness by putting his finger in the roller wheel of ring frame.
Do.	Narasimooloo	23rd September ..	Kavarai	Do.	15	Injury to the 1st joint of 1st finger of right hand caused by his own negligence in cleaning wheels in motion.
Carnatic Mill	Coopoosawmy	21st January	Naidu	Do.	35	Third and 4th fingers bruised, caused in the grinding stone while sharpening a tool.

STATEMENT A—*cont.*

Name of Factory.	Name of persons injured.	Date of accident.	Caste.	Sex.	Age.	Nature of injury.
		1890.			YEARS.	
Carnatic Mill	Venkatasawmy	26th January	Moodelly	Male	15	Hurt on his left knee by leaning on the intermediate frame while in motion.
Do.	Veera Ragaven	4th February	Pariah	Do.	14	Hurt on the 4th finger of his left hand by his own carelessness by putting his hand between two back rollers and carrier wheels of the ring throstle frame while in motion.
Do.	Gopaul	6th May	Do.	Do.	14	Hurt the 2nd, 3rd and 4th fingers of left hand by putting his hand out of curiosity between two rollers in the calendar machine while in motion.
Do.	Saiyid Ali	11th ,, ...	Mussalman ..	Do.	14	Hurt 1st, 2nd and 3rd fingers of right hand by putting his hand in a pair of pinion wheels of the throstle frame while in motion.
Do.	Vathagerry	11th ,, ...	Hindu	Do.	25	Hurt 2nd, 3rd and 4th fingers of right hand while working on the saw machine, his hand slipped and fell across the machine against the saw.
Do.	Moonian	22nd ,, ...	Chuckler	Do.	14	Hurt the 3rd finger of his right hand by carelessly putting his hand in a pair of pinion wheels of the throstle frame while in motion.
Do.	Haidar Husain	3rd June	Mussalman ..	Do.	14	Hurt on the 4th finger of his right hand by carelessly putting his hand in a pair of pinion wheels of the throstle frame while in motion.
Do.	Moonisawmy	1st ,, ...	Pariah	Do.	30	Hurt his head by a driller accidentally slipping from the ratchet and falling on it.
Do.	Moorugasen	18th July	Moodelliar	Do.	18	Hurt his right thumb by carelessly putting his hand in a bobbin wheel of the roving frame while in motion.
Do.	Husain Khan	19th ,, ...	Mussalman ..	Do.	15	Hurt the 4th finger of his right hand by playing with another boy and jack machine accidentally falling on his right hand.
Do.	Lutchimee	22nd September ..	Tamil	Female ..	14	A slight hurt on her right eye-brow caused by a shuttle accidentally flying out while she was passing through the weaving shed.

STATEMENT A—*cont.*

Name of Factory.	Name of persons injured.	Date of accident.	Caste.	Sex.	Age.	Nature of injury.
		1890.			YEARS.	
Carnatic Mill	Rungiah	16th October ..	Tamil ..	Male	20	Hurt the 3rd finger of his right hand by carelessly putting his hand between two back rollers in the roving frame while in motion.
Do.	Ramalingum	16th ,, ..	Do. ..	Do.	14	Hurt on 4th finger of left hand by carelessly putting his hand between a pair of pinion wheels of the throstle frame while in motion.
Do.	Anthony, died 25th November 1890.	7th November ..	Pariah ..	Do.	30	*Scalded below the waist by steam blowing on account of the branch pipe breaking accidentally at feed-valve to boiler.
Do.	Ponnoosawmy	7th ,, ..	Do. ..	Do.	20	*Scalded on the back of thighs by steam blowing on account of the branch pipe breaking accidentally at the feed-valve to boiler.
Bee-hive Foundry ..	Bungasawmy Pillay	19th March ..	Hindu ..	Do.	52	One finger of left hand being jammed between two rollers causing a slight lacerated wound.
Simpson and Company ..	Vadiveloo	13th February ..	Do. ..	Do.	30	* Got his cloth entangled in the strapping while engine was at work; left leg fractured and amputated in hospital.
Do.	Chunthe	5th November ..	Vanian ..	Do.	35	Hurt on the left leg by a piece of timber falling on it.

From J. STURROCK, Esq., District Magistrate of Coimbatore, to the Chief Secretary to Government, dated Coimbatore, 28th March 1891, No. 219-Magte.

I have the honour to enclose copy of the report received from the Deputy Magistrate in charge of the Coimbatore Taluk Division, dated 28th February last, No. 4, on the working of the Indian Factories Act, for the calendar year 1890, and a copy of the statement received from him showing the number of men employed, &c.

2. The Spinning and Weaving Company Factory, which is the only one in the district which comes under the purview of the Act, has been twice inspected in the year by the Deputy Magistrate and the remarks passed by him have been duly communicated to the occupier of the Factory.

3. All the requirements of the Act have been complied with.

ENCLOSURES.

From M.R.Ry. T. GOPALAN NAIR Avargal, Deputy Magistrate, Coimbatore, to the District Magistrate of Coimbatore, dated Coimbatore, 28th February 1891, No. 4—F.A.

I have the honour to submit my report on the working of the Spinning and Weaving Company Factory, Coimbatore, for the year 1890.

2. The Factory was nominally opened on the 18th August 1890, but the real work was commenced on the 1st September 1890.

3. I inspected the Factory twice during the year, viz, 1st and 18th December 1890. On these occasions the Manager of the Factory gave me every facility in my work of inspection Copies of my remarks on the state of the Factory during those inspections are herein enclosed.

4. No children under the age of 7 are employed.

5. The machinery appears to me to have all its dangerous portions securely fenced.

6. The sanitary condition of the Factory premises is good and the buildings are ventilated.

7. Three accidents were reported during the year. These were due to the carelessness of the persons employed. They were successfully treated in the Municipal Dispensary, Coimbatore.

8. In this Factory cotton yarn is manufactured and pressed into bales with the aid of a steam engine of 266 horse-power.

9. Registers A and B are duly maintained in my office.

10. A statement in the form prescribed in paragraph 7 of G.O., dated 7th July 1885, No. 1760, Judicial, is enclosed.

REMARKS on the state of the Spinning and Weaving Company (Limited), Coimbatore, inspected on 1st December 1890.

Factory No. 1.

I inspected this Factory with the Manager this day. There were 144 adult males and 55 adult females and 249 male children and 46 female children, employed at the time of inspection. No children under the age of 7 years are employed in this Factory. Children who are above 7 years of age and under 12, have been certified by the Civil Surgeon as to their age, and the file of such certificates in Form C, as required by the rules framed under the Indian Factories Act, has been duly maintained. No children are employed near the steam engine.

2. The notice of the interval required to be set up in the Factory under section 7 of the Act has not been set up. This should be done.

3. In section 8 of the Act it is laid down that notice shall be given to the Inspector of the four holidays to be given to the children each month. I understand that every Sunday is a holiday, but formal notice of the fact has not been given to the Inspector and should be furnished. A notice in the diglott form authorising ten holidays for the whole year has been posted in a conspicuous place.

4. Section 8 of the Act and rule 15 require that registers of the children employed should be kept in Forms D and E. This has not been done; but should be done at once.

5. A notice in Form F, as required by rule 16, showing the daily working hours of the Factory, has not been set up. This should be attended to at once.

6. The machinery in all its dangerous portions appears to have been securely fenced. I told the Manager, who was with me, not to allow the visitors to go near the steam engine. I

intend taking an Engineer with me in the course of my next inspection to give a professional opinion as to the secure fencing of the machinery.

7. Rule 23 requires that a copy of the rules and forms should be hung up in the Factory in a conspicuous place. This has not been, but should be, done.

8. A copy of these remarks will be communicated to the occupier of the Factory who should attend to the remarks with as little delay as possible.

(Signed) T. GOPALAN NAIR,
Deputy Magistrate.

REMARKS on the state of the Spinning and Weaving Company (Limited), Coimbatore, inspected on the 18th December 1890.

Factory No. 1.

I inspected this Factory with the Assistant Surgeon this day There were 150 adult males and 48 adult females and 222 male children and 27 female children employed at the time of inspection. No children under the age of 7 years are employed in this Factory. Twenty-three children, including males and females, were produced before me, and they have all been certified by the Civil Surgeon under 12 years of age. But I, with the Assistant Surgeon, walked through among the working persons, to find out if there were any children under 12 years of age, employed without the necessary certificates having been obtained as to their age. The occupier did not obtain certificates for the children actually employed and named in the margin. They appeared to me to be under 12 years of age. The Assistant Surgeon, who accompanied me, was also of the same opinion. The occupier will see that the necessary certificates are obtained in the case of the children pointed out by me.

1. Papal.
2. Meenatchi.
3. Velakkanni.
4. Maruthal.
5. Krishnan.
6. Siluvamuthu.
7. Nachimuthu, No. 138.
8. Sultan, No. 56.
9. Bommadasan, No. 37.
10. Abd-ul Hazim, No. 150.
11. Komaran, No. 25.

2. The children work from 7 A.M. to 12 A.M. and from 1 P.M. to 5 P.M., having an interval for food and rest from 12 noon to 1 P.M.

3. The notice of interval required to be set up in the Factory, under section 7 of the Act, is set up.

4. Children are not employed near the steam engine or in its dangerous parts.

5. The machine has been securely fenced in all its dangerous portions.

6. Register in Form E has been kept, while the register in Form D has not, but should be done at once.

7. The notice showing the daily working hours has been set up. A copy of the rules has not been hung up as required by rule 23. This should be done at once.

8. The children whom I met and spoke to, said to me that they generally leave work at 7-30 P.M. This may or may not be true, but I call the attention of the Manager to the strict observance of section 7 of the Act, which clearly lays down that no child shall be actually employed in any Factory more than 9 hours in any one day. A copy of these remarks will be communicated to the occupier of the Factory who should attend to them with as little delay as possible.

(Signed) T. GOPALAN NAIR,
Deputy Magistrate.

TABLE showing the number of persons employed at the end of the year and the state of the Factory with reference to sanitation and ventilation.

Name of District.	Name of Factory.	Number of persons employed at the end of the year.				Machinery, whether fenced or not.	Ventilation and sanitation.
		Adults.		Children.			
		Men.	Women.	Males.	Females.		
Coimbatore ..	Spinning and Weaving Company (Limited), Coimbatore.	138	62	218	54	Properly fenced.	Good.

(Signed) T. GOPALAN NAIR,
Deputy Magistrate.

From G. F. T. POWER, Esq., Acting District Magistrate of South Arcot, to the Chief Secretary to Government, dated Cuddalore, 10th April 1891, No. 499 Indexed.

With reference to G.O., dated 5th March 1883, No. 625, Judicial, and para. 6 of G.O., dated 9th February 1882, No. 193, I have the honour to forward herewith reports from the Deputy Magistrates, General Duty, Cuddalore and Tirukoilúr, on the working of the Indian Factories Act, 1881, during the calendar year 1890.

2. There are two factories in the district—one at Nellikuppam and the other at Tiruvennanallúr—falling within the scope of the Act. Both of them were in working order during the year under report.

3. The factory at Nellikuppam is situated within the Cuddalore Deputy Magistrate's division. This officer and his predecessor have inspected it on three occasions during the year.

4. There were seven accidents in this factory during the year. None of them proved fatal.

5. The sanitary condition and ventilation are reported to be fairly good. Juveniles under the prescribed age are not employed.

6. The factory at Tiruvennanallúr lies within the Tirukoilúr Deputy Magistrate's division. This officer has inspected it thrice during the year.

7. There were no accidents in this establishment.

8. The sanitary condition was fair and ventilation sufficient.

9. No prosecutions were ordered under the Act during the year.

10. The statement prescribed by Government in its order, No. 1760, dated 7th July 1885, is enclosed.

ENCLOSURES.

From M.R.Ry. V. SUBBIAH Avargal, B.A., Deputy Magistrate on General Duty, South Arcot, to the Acting District Magistrate of South Arcot, dated Tirukoilúr, 28th February 1891, No. 20.

I have the honour to submit my report on the working of the Factory Act in this division for 1890.

2. There is only one working registered factory in this division, that of Messrs. Parry and Co. at Tiruvennanallúr. More than 100 coolies work in it and they were so employed in 59 days during the year under report.

3. Adult males or females work 10 hours a day—from 7 to 12 A.M., again from 2 to 7 P.M. Special arrangements are made for night work during sugar-manufacturing season, so as to give 12 hours' work per head, day and night put together. A cooly is made to work from 7 A.M. to 1 P.M., and then relieved for the rest of the day; he comes back at 7 P.M. and works on until 1 A.M., the relieving cooly working from 1 to 7 P.M., and again from 1 to 7 A.M.

4. The coolies are generally well-clothed and healthy, and, as a rule, children are not employed.

5. The coolies get daily wages, distributed once in a fortnight. It does not appear that their wages are unnecessarily withheld.

6. Inasmuch as the coolies get only daily wages for the days they work, they enjoy holidays at their will and pleasure; standing coolies, it is stated, enjoy 6 days for Pongal and 3 days for Deepavali in the case of Hindus, and 3 days for Mohorum and 2 for Ramzan and Kutba in the case of Muhammadans.

7. Sugarcane season begins from 1st March and ends by 15th May. That is generally the most busy part of the year.

8. I have visited the factory thrice and an extract from the register of inspection is enclosed for information.

9. No accidental deaths have been reported during the year under report.

REPORT on Inspection of Factory in the Division of the General Duty Deputy Collector, Tirukoilúr, for 1890.

Number.	Name or description of Factory.	Name of occupier or manager.	Date of inspection.	Number of persons at work on the date of inspection.				Machinery whether fenced or not.	Ventilation and sanitation.	Remarks.
				Adult.		Children.				
				Men.	Women.	Male.	Female.			
1	Sugar Factory and Distillery, Tiruvennamallúr.	E. J. G. Gill, Esq., Agent of Messrs. Parry and Co.	20th Aug. 1890	16	8	..	..	Yes	This is not the working season. No work is going on since June. Sanitation fair.	
			3rd Oct. ,,	4	..	..	..	Do.	Do. ..	This being not the working season, the premises are in a neglected condition.
			31st Dec. ,,	31	8	..	..	Machinery properly fenced; not working.	Sufficient ventilation; premises being cleaned and fair.	

From M.R.Ry. P. KRISHNA ROW Avargal, Deputy Magistrate, Cuddalore, to the District Magistrate, South Arcot, dated Cuddalore, 16th March 1891, No. 38.

I have the honour to submit my report on the working of the Factory Act for the calendar year 1890.

The factory at Nellikuppam, belonging to Messrs. Parry and Co., was inspected during the year by my predecessor, Mr. Sundra Row, B.A., and by me, on three occasions, as noted in the margin, and the result of the inspection is given in statement B (enclosed).

19th May 1890.
8th October 1890. } 2nd December 1890.

2. On the two occasions I was there, I found the sanitary condition and the ventilation of the factory fairly good.

3. As no children under 12 years of age were employed in the factory, the registers D and E (rule 15) and the file of certificates in form C (rule 14) have not been maintained.

4. There were seven accidents during the year under report, of which, in three cases, the injured persons were successfully treated in the hospital at Manjakuppam. But in the other four cases, the injured persons were partly under treatment in the hospital and subsequently got cured by private treatment. A statement showing the details of each case is herewith submitted.

5. There were no prosecutions in the year.

STATEMENT showing the number of persons employed on the dates of inspections and the state of the Factory, with reference to sanitation and ventilation during the year 1890.

Name of District.	Name of Factory.	Number of heads employed on the dates of the three inspections.			Machinery whether fenced or not.	Ventilation and sanitation.
		Adults.		Children.		
		Men.	Women.			
South Arcot ..	Sugar Manufactory and Refinery nd Spirit Distillery, Nellikuppam.	*19th May* 1890.			Fenced ..	Fairly good.
		466	56	30		
		8th October 1890.				
		508	45	30		
		2nd December 1890.				
		491	56	40		

STATEMENT showing accidents that occurred in the Sugar Manufactory and Refinery and Spirit Distillery at Nellikuppam during the year 1890.

Date of occurrence.	Name.	Caste.	Sex.	Age.	Nature of injury and how caused.	Remarks.
1	2	3	4	5	6	7
1890. 4th Feb.	Alamelu ..	Pariah ..	Female ..	13	Bruise of sole of right foot. The accident was caused by the girl crossing the turntable while in motion.	Cured.
9th July ..	Singaram ..	Valluvan ..	Male ..	34	Lacerated side. The accident was caused by the man, a carpenter, losing his footing and falling from the top of a wall while removing roof couplings.	Discharged cured from the New Town Hospital on 25th August 1890.
11th Aug. ..	Dhurman ..	Vannien ..	Do. ..	30	Top of thumb cut off. The accident was caused by the man not attending to his work in hand and absently striking off his finger instead of chopping the bark he was engaged on.	Cured.
14th ,, ..	Subban ..	Pariah ..	Do. ..	20	Cut forehead. The accident was caused by a fellow-labourer letting fall a damper slide which he had just drawn from a chimney shaft commanding on iron roof and the slide slipping down over the roof and shooting off on to the injured man's head.	Discharged cured from the New Town Hospital on 25th August 1890.
14th Sept. ..	Muthusamy ..	Palli ..	Do. ..	35	Bruised or, possibly, broken toes. The accident was caused while unloading jaggery bags from a truck by one of the bags slipping down on to two of his toes of the left foot.	Cured.
28th ,, ..	Mottayen ..	Pariah ..	Do. ..	23	Bruised finger. The accident was caused by the injured person's own carelessness; he put his finger into the iron pulley while hauling up sugar bags.	Cured.
2nd Dec. ..	Ponnusami ..	Naicker ..	Do. ..	35	Face scalded by hot water and shaken by fall. The accident was caused by the man attempting to take a plug out of a boiler feed-water pipe while the feed pump was working. The plug struck the man in the face and he lost his balance and fell about 6 feet.	Discharged cured from the New Town Hospital on 8th December 1890.

From F. A. NICHOLSON, Esq., District Magistrate of Tinnevelly, to the Chief Secretary to Government, dated Tinnevelly, 15th April 1891, No. 397.

With reference to G.O., No. 625, Judicial, dated 5th March 1883, I have the honour to submit the report on the working of the Indian Factories Act (XV of 1881) in this district for the calendar year 1890.

1. Tuticorin Cotton Press Company (Limited).
2. Cotton Press of Darley, Butler and Co.
3. The Coral Mills Company (Limited).
4. Cotton Spinning Factory, Pápanásam.

2. There were four factories, noted in the margin, on the registers during the year under report, the first three being in the Joint Magistrate's and the fourth in the Head Assistant Magistrate's divisions

3. *Inspection of Factories.*—The subjoined statement shows the dates of inspections, with their results:—

Name of Factory.	Number of times examined.	Date of inspection.	Number of persons employed.				Machinery whether fenced or not.	Ventilation and sanitation.
			Adults.		Children.			
			Men.	Women.	Male.	Female.		
1. Tuticorin Cotton Press Company (Limited).	1	1890. 6th September ..	72	12	..	..	Fencing satisfactory.	Satisfactory.
2. Cotton Press of Darley, Butler and Co.	1	6th ,, ..	67	13	..	..	Do. ..	Do.
3. The Coral Mills Company (Limited)	3	25th January ..	422	143	63	32	Do. ..	Do.
		29th August ..	383	139	112	55		
		12th November ..	356	184	99	11		
4. Cotton Spinning Factory, Pápanásam.	7	11th January ..	369	109	..	..	Properly fenced.	Good.
		23rd March ..	476	..	41	..		
		25th ,, ..	..	..	..	..		
		24th April ..	320	129	35	..		
		7th August ..	349	128	32	..		
		15th September ..	..	..	..	..		
		16th ,, ..	328	124	42	..		

4. It will be seen from the above statement that the first two factories were not inspected three times during the year as required by the rules. The Joint Magistrate, in whose division these factories lie, explains that the default was due to the frequent changes in the incumbency of the Sub-divisional officer during the year under report. They were once inspected by Mr. Henry on 6th September 1890, and when Mr. Hewetson went to inspect them on 31st December 1890 one had been closed and in the other three was no work. The Coral Mills Company (Limited) (factory No. 3), in the same division, where work is on an extensive scale, was, however, inspected three times—once by Mr. Holmes and twice by Mr. Henry.

5. With reference to the latter part of paragraph 1 of G.O., dated 9th June 1890, No. 982, Judicial, the Joint Magistrate states that factory No. 2, belonging to Messrs. Darley, Butler and Co., does not come within the scope of the Act inasmuch as the maximum number of operatives during the year under report as well as in the two preceding years has been below 100 and recommends its removal from the register. I am issuing orders to him to strike it off the register, but to make occasional visits to the factory in view to its being, if necessary, restored to control. Though the number employed in the factory No. 1 was less than 100 on the date of its inspection, the maximum number was 122. This factory may consequently be retained on the register.

6. With a view to maintain a careful watch, as advised in paragraph 6 (*a*) of G.O., dated 9th June 1890, No. 982, Judicial, over the employment of labour in the factory at Pápanásam, the Head Assistant Magistrate inspected it seven times during the year under report.

7. *Conditions of Factories.*—As regards the factories in the Sub-division, the Joint Magistrate reports that, from the inspection notes left by his predecessors, ventilation, sanitary arrangements and fencing of machinery appear satisfactory, and that the necessary rules under the Act have been stuck up. As regards the factory at Pápanásam, I beg to subjoin an extract from the report of the Head Assistant Magistrate, No. 61, dated 21st March 1891:—

"There is no defect in the machinery. Proper attention is being paid to keeping the factory in good sanitary condition. The rooms in which the looms are worked are well-ventilated. The machinery is properly fenced. The mill is situated in the middle of an open ground on the southern bank of the Támbraparni river and the surroundings are kept perfectly clean."

I beg also to enclose a statement containing the notes of inspection on the seven occasions by the Head Assistant Magistrate. These notes show that the provisions of the Act, and the rules thereunder as regards the maintenance of the several registers and forms, have been successfully enforced.

8. *Employment of Children.*—Children were not employed in the first two factories at Tuticorin. In the Coral Mills Company (Limited), at the same place, children were employed throughout the year. The certificates of ages were forthcoming for all the children and the necessary registers are maintained. The children at this factory were mustered and examined on the 12th November 1890 by Mr. Henry and the certifying Surgeon. There was no child under 7 years of age at work and the four holidays prescribed for children are allowed every month. Children were also employed in the factory at Pápanásam and the hours of work for them are said to be between 7 A.M. and 5 P.M., with a recess of one hour between 12 noon and 1 P.M. From the notes of inspection of the Head Assistant Magistrate, contained in the statement referred to in the foregoing paragraph, it appears that the forms and registers as regards children required by the Act and the rules are also maintained and that the children were mustered on 16th September 1890 by the Head Assistant Magistrate accompanied by the Assistant Surgeon.

9. I observe from the records in my office that some special arrangement was made for child-labour in this factory. Children were employed, to some extent, in 1885 the year in which this factory was, for the first time, brought under the purview of the Act, and the managers subsequently, in the same year, ceased to employ them—*vide* Mr. Rawson's letter, No. 2, dated 7th January 1886, which forms an enclosure to this office letter, No. 276, dated 5th April 1886, read in G.O., dated 31st May 1886, No. 1435, Judicial. I find also from the reports of the succeeding years that children were not employed till the year under report. In paragraph 4 of Mr. Rawson's letter quoted above, it is said that the working times for children were, with the sanction of Government, arranged as follows: one batch of children from 6 A.M. to noon, and another batch from noon to 6 P.M. I am now addressing the Head Assistant Magistrate asking him to report fully on this subject with reference to the above remarks, and I shall submit his explanation when received.

10. *Accidents.*—No accidents occurred in the first two factories at Tuticorin. Two occurred in the Coral Mills Company (No. 3) and one in the factory at Pápanásam (No. 4). The following statement shows the particulars of the three accidents:—

No.	Name of Factory.	Date of accident.	Name.	Caste.	Sex.	Age.	Nature of injury and how caused.	Remarks.
1	Coral Mills Company.	10th Feb. 1890.	Sankáralingum Chetty.	Hindu ..	Male.	YRS. 12	Right arm lacerated by carelessly putting the hand between the two tin rollers of spinning frame.	It was not the business of the boy to put the banding on the rollers.
2	Do. ..	23rd Apr. 1890.	Suviseshamuttu Nadan.	Do. ..	Do.	18	Part of first finger in right hand taken off by carelessly putting the hand inside a small driving fenced wheel.	
3	Factory at Pápanásam.	..	M. Palavesam ..	Oil-monger.	Do.	15	Two fingers of right hand crushed and broken.	Since amputated.

The accidents were comparatively few—3 against 7 in the preceding year.

11. *Prosecutions.*—There were no prosecutions during the year under report.

ENCLOSURE.

STATEMENT showing the Notes of Inspection of the Factory at Pápanásam, in Ambásamudram Taluk, Head Assistant Magistrate's Division.

Number of Factory in Register A.	Name or description of Factory.	Name of occupier or manager.	Date of inspection.	Number of persons at work on date of inspection. Adults. Men.	Adults. Women.	Children. Male.	Children. Female.	Remarks.
Tinnevelly Mills ..	Spinning Mills ..	Mr. A. H. Harvey ..	11th January 1890.	369	109	..	..	Absentees 66. I inspected the mills and the registers this morning (section 6). No child under the age of 7 years is employed (section 7). The 41 children, or half-timers as they are called, are said to work from 7 A.M. to 5 P.M., with an hour as an interval between noon and 1 P.M. No notice, with the information required by section 7, maintained (section 10). Attended to. A file of certificates in form C is maintained. Forms D and E are not maintained. Rule xxiii attended to. I give notice that as all the registers under section 11 of the Factory Act not kept up, I give three days' time within which the manager is required to maintain forms D, E and F, which latter is to be hung up in a conspicuous portion of the mills. Remarks passed in form D (Register book of boys) note. A column for serial number (1 to 2 to 3 and so on) should be opened. The column now opened (No. 1) does not contain serial numbers, but only the register number. Column 6 ought to contain the precise age given by the guardian, parent or medical authority. The entry "above 7 years" does not suffice. Remarks passed in form E (Weekly Muster Register of children), column 4. Precise age should be given. Column 8, rate of wages per month, not entered. In column 9, the amount is presumed to be in R. A. P. It should be so stated. The corrections in this column should be initialled and the register signed by the manager at the end of every week.
			23rd March "	476	..	41	..	
			25th " 1890 ..	..	..	..	..	
			24th April 1890 ..	320	129	35	..	Inspected the mills with Mr. Broth, Engineer. Points noted at last inspection attended to. Registers properly kept, and the points pointed out at last occasion correctly written up. Examined the half-timers. They come at 7 A.M. and work until noon when they are off for an hour for luncheon. They come back and work till 5 P.M.
			7th August 1890 ..	349	128	32	..	Inspected the mills and the registers. Half-timers work from 7 A.M. to noon and from 1 P.M. to 5 P.M. The interval is given for rest and food. Two half-timers work after 5 to-day. Krishna Naidu, son of Venkatasami Naidu, Tenkási, age 10, found at work at 5-30 P.M.: Palli, son of Hassan Paniyan, age 10, found at work. Registers written up to 2nd August; rough note books for days from 2nd to 7th August 1890.
			16th September 1890.	..	..	..	..	Reached the mills at 5-5 P.M. The half-timers are being forded across the river on their way home. Went inside the mills. No half-timers found at work. I went to the mills at about 5 P.M. to see expressly if half-timers were detained beyond the hours prescribed.
			16th " "	328	124	42	..	Absent 50. Inspected the mills with the Assistant Surgeon. Forty-two boys at work. They were numbered. Eight absentees. The average of absentees in September is as follows:—

2nd, 7; 3rd, 8; 4th, 7; 5th, 8; 6th, 7; 7th, 7; 8th, 6; 9th, 4; 10th, 6; 11th, 7, 12th, 10; 13th, 13th, 6; 15th, 8; 16th, 8; 1st and 14th were holidays. The half-timers were examined by the Assistant Surgeon and pronounced one 7 years old. Form D kept up. Number on the rolls, 50. Wages register kept up to week ending with 13th September.

From M.R.Ry. V. JAGANNADHAROW, General Duty Deputy Magistrate, Vizianagrum Division, to the District Magistrate, Vizagapatam, dated Vizianagrum, 26th February 1891, No. 54.

I have the honour to submit my report on the working of the Gunny Factory at Chittivalsa, belonging to Messrs. Arbuthnot and Co., for the calendar year ending 31st December 1890.

2. During the year under report, the factory was thrice inspected by me on the following dates:—

I.—On the 9th May 1890, between 6½ and 7 A.M.
II.—On the 19th July 1890, between 7 and 8 A.M.
III.—On the 29th November 1890, between 7 and 8 A.M.

On these three occasions Mr. Innes, the Manager of the factory, was present with me at the time of inspection.

3. In this factory jute is cleaned, turned and woven, and eventually made into gunny bags. The engine is worked by steam, and its moving power is 77 nominal, and 220 actual, horse-power.

4. The factory was closed on nine English and nine Native holidays, besides Sundays, during the year. The working hours during the year were the same as those in the last year, viz., from 5-30 A.M. to 6-30 P.M., with a recess of one and half an hour, between 12 A.M. and 1-30 P.M., in the months of November to March, and two hours, from 12 A.M., from April to October. On Saturdays the engine stops at 4-30 P.M., allowing an interval of half an hour at noon.

5. The average number of persons employed during the year was 700. The number at work on the dates of inspection is as under:—

Month and date.	Males. Above 16.	Males. 12 to 16.	Females. Above 16.	Females. 12 to 16.
9th May 1890	356	217	74	3
19th July "	385	206	67	3
29th November 1890	379	208	82	4

No children below 12 years were employed in the factory.

6. The factory is generally whitewashed and cleaned once in every year. The whitewashing for the year 1889 was commenced on the 13th November and completed on the 31st December following; and for the year under report it was commenced on the 15th October and finished on the 25th November.

7. The latrines were being cleaned with the hot water that was let out from the engine.

8. There is proper ventilation for the rooms of the building. Though there is much dust in the preparing room, yet the workmen do their work with a cloth over their mouths as they are well accustomed to it.

9. The temperature in the working rooms on the dates of inspection was as follows:—

On the 9th May 1890	90°
" 19th July "	83°
" 29th November 1890	73°

10. The machinery has been protected either by iron rails or by iron and wooden shields in view to prevent all chances of accident, and it has also been fenced, wherever necessary or possible. The calendar rollers have been protected with small guide rollers for the purpose of conducting the cloth to the in-running side of the upper calendaring rollers. These are worked safely and with ease.

11. Two accidents were reported during the year 1890—

(1) On the 26th February 1890, Kanooree Guriah, a boy of 13½ years of age, received a cut under his left arm (which was not serious) by falling against a winding machine.

(2) On the 11th October 1890, Danthenada Swamy, a man aged 27 years, received a cut on the skin on the back of his right hand, while cutting a small piece of wood at the circular saw. The injury was not serious. Both these men were treated in the dispensary at Bimlipatam and they returned to duty on the 11th March and 28th October 1890, respectively.

12. Certificates of age were granted to all young persons employed in the factory in form C, appended to the rules, by the Civil Apothecary at Bimlipatam, who was appointed certifying Surgeon under section V of the Factories Act, 1881, and a file of these certificates is maintained as required by rule XIV.

13. Registers D and E are not maintained, as no children below 12 years are employed in the factory.

14. A notice of daily working hours and a list of holidays have been set up in an open place in the factory, and printed copies of the rules, with Telugu translations, have been posted on the outer walls of the office room.

15. The young persons entertained in the factory since the date of the last inspection were mustered by me at each inspection and found to be in a healthy condition.

16. Registers A and B, which are required to be kept in my office under rules 2 and 9, have been properly maintained.

17. A statement showing the number of persons employed on the last working day of the year is appended as required by paragraph 7 of G.O., dated 7th July 1885, No. 1760, Judicial Department.

ENCLOSURES.

STATEMENT showing the number of persons employed on the last working day of the year 1890, in the Gunny Factory at Chittivalsa, and the state of the Factory in regard to sanitation and ventilation :—

Name of District.	Name of Factory.	Number of persons employed on the last working day of the year.				Machinery whether fenced or not.	Ventilation and sanitation.
		Adults.		Young persons.			
		Men.	Women.	Males.	Females.		
Vizagapatam ..	Gunny Factory at Chittivalsa.	404	77	275	16	Properly fenced.	Good.

From C. INNES, Esq., Manager, Gunny Factory, Chittivalsa, to the General Duty Deputy Magistrate, Vizianagrum Division, dated Chittivalsa, 6th April 1891.

I have the honour to acknowledge receipt of your letter No. 109, dated 3rd instant, asking me how it is possible to work the factory between 5-30 and 6-30 P.M. without artificial light in the cold season.

I have never stated that the factory is so worked in the cold season. You must be referring to a general time and not to any special month or date.

On the 3rd January 1890, the hours were from 6-15 A.M. to 6 P.M.; on the 3rd June from 5-10 to 6-45; and on the 3rd December, from 6 to 5-50.

No. 506.

Submitted to Government.

2. This is the only factory in the district falling within the scope of the Act.

3. There were two accidents, but they were not of a serious nature.

4. In reference to paragraph 4 of the report, the Manager of the factory reports that the working hours were not uniform, as therein stated, throughout the year. A copy of his report is attached.

VIZAGAPATAM,
20*th April* 1891.

(Signed) W. A. WILLOCK,
District Magistrate.

From M.R.Ry. V. CHAPPAN MENON, Deputy Magistrate and Inspector of Factories, Calicut Division, to the District Magistrate of Malabar, dated Calicut, 22nd April 1891, No. 221-M.—Gl.

I have the honour to submit my report on the working of the Factories Act in the Calicut division during the year 1890.

2. The only factory which falls within the scope of the Act is "the Malabar Spinning and Weaving Company (Limited)" in Panniyangara amsam, Calicut taluk.

3. I was appointed *ex-officio* Inspector of Factories in my division by the notification of Government published in the *Fort St. George Gazette*, dated 4th March 1890. I inspected the factory thrice in the course of the year, the results of which are recorded below :—

Name of Factory.	Date of inspection.	Number of persons employed.				Machinery whether fenced or not.	Ventilation and sanitation.
		Adults.		Children.			
		Males.	Females.	Males.	Females.		
The Malabar Spinning and Weaving Company (Limited), Calicut.	16th Aug. 1890.	273	33	36	..	Well fenced..	Building well ventilated and premises clean.
	18th Dec. ,, ..	263	23	57	6	do. ..	do.
	30th ,, ,, ..	257	24	52	6	do. ..	do.

4. At my first inspection various irregularities and defects were noticed; but I am glad to say that they were all removed in a very short time. The following is an abstract of the remarks recorded in the inspection register maintained under rule ix of the Factory rules :—

(1) *Factory Rules.*—A copy of the rules has been hung up in a conspicuous place in the factory as required by rule xxiii.

(2) *Certifying Surgeon's Certificate.*—The prescribed certificates had not been obtained for all the children working in the factory. The omission has since been supplied.

(3) *Register of Children.*—This register (form D) had not been correctly filled in, *e.g.*, columns 8 and 10, which indicate, respectively, the "date of first admission" and the "date of termination of employment or discharge" had been left blank. The omission has since been supplied.

(4) *Weekly Muster Register for Children.*—Maintained in the prescribed form E. At my first inspection, I learned from the children working at the factory that they were working from 6 A.M. to 6 P.M., with only half an hour's interval at midday for their meals. This was contrary to the distinct provisions contained in section 7 of the Factory Act and was pointed out to the manager who was warned both by me and by

the District Magistrate that prosecution would be resorted to if any similar infringement was noticed. The hours of business fixed in writing by the company are :—

For adults.—From 6 A.M. to 6-30 P.M., with half an hour's interval from 12 to 12-30 P.M.

For boys and girls.—From 7 A.M. to 5 P.M., with an hour's interval from 12 to 1 P.M.

(5) *Unregistered Children.*—In addition to the children whose names were entered in register E, I found several employed on piece-work for which they were paid according to the work turned out by them. These latter were, it appears, omitted owing to a misapprehension of the rules and were ordered to be registered at once.

(6) *Muster at Inspection.*—I held a muster of children at all my inspections.

(7) *Forms F and G.*—Properly maintained.

(8) *Fencing.*—In the room adjoining the engine room a railing was considered necessary to prevent accidents to persons passing through it. This suggestion was adopted by the manager.

(9) *Sanitation.*—The premises are kept clean and the buildings well-ventilated.

(10) *Holidays to Children.*—For some time the manager had omitted to give notice of holidays to the Inspector. The omission has since been supplied. Monthly notices are now regularly received.

5. A statement showing the number of accidents which occurred and the nature of the injuries received is enclosed. These accidents were duly reported to the Inspector and none proved fatal.

6. The statement prescribed in G.O., dated 7th July 1885, No. 1760, Judicial, is subjoined :—

Name of District.	Name of Factory.	Number of persons employed at the end of the year.				Machinery whether fenced or not.	Ventilation and sanitation.
		Adults.		Children.			
		Males.	Females.	Males.	Females.		
Malabar ..	The Malabar Spinning and Weaving Company (Limited).	254	23	52	6	Properly fenced.	Good.

7. In conclusion, I beg to note with satisfaction that the factory is now properly managed and that the instructions issued to the manager regarding the irregularities and defects noticed at the first inspection received his prompt attention. There was in consequence no occasion to resort to a criminal prosecution under the Act.

ENCLOSURE.

STATEMENT showing the number of accidents occurred in the Malabar Spinning and Weaving Company during 1890.

No.	Date of occurrence.	Name.	Caste.	Sex.	Age.	Nature of injury and how caused.	Remarks.
					YEARS.		
1	January, 14th ..	Ayalath Karappan	Tiyan	Male	17	Crushed finger, caused by picking waste wilfully from the wheels of the drawing frame whilst in motion.	Sent to hospital for treatment.
2	Do. 19th	Vadake Vittil Ali	Muhammadan ..	Do.	38	Cut on the leg, caused by the collapse (whilst moving) of temporary post on which balance scales were suspended.	Do. do.
3	Do. 19th	Alangath Koyakutti	Do. ..	Do.	41	Cut under the chin, caused by the collapse (whilst moving) of temporary post on which balance scales were suspended.	Do. do.
4	February, 16th ..	Madathil Raman	Nair	Do.	18	Crushed finger, caused by wilfully picking waste from wheels of the mule whilst in motion.	Do. do.
5	March, 15th	Kallachiparambath Chayichan	Tiyan	Do.	9	Severed the nail of the fore-finger, caused by wilfully putting his finger in the wheels of an hand rope machine.	Do. do.
6	Do. 22nd	Kalathumarath Appu	Nair	Do.	33	Fingers crushed in the wheels of the carding machine, caused by himself starting the machine and at the same time placing his hand on the machine.	Do. do.
7	April, 5th	Chambayil Andy	Tiyan	Do.	27	A piece of glass penetrated into his foot, caused by the person accidentally treading on a piece of broken glass.	Do. do.
8	May, 24th	*Chirakkal Kandakutti*	*Do.*	*Do.*	32	Two teeth knocked out and others loosened and lips cut, caused by the collapse of a ladder whilst the injured person was on the same.	Do. do.
9	Do. 24th	Paritholi Karappan	Do.	Do.	27	Slight cut on leg, caused by the collapse of a ladder whilst the injured person was on the same.	Do. do.
10	June, 27th	Thikotil Krishnan	Do.	Do.	12	Lacerated shoulder, caused by himself whilst sweeping the floor accidentally falling down and was struck on the shoulder by a pulley.	Do. do.
11	August, 21st	Kallath Sankaran	Nair	Do.	25	Left leg bruised, caused by the man keeping his leg on the roller of the machine whilst in motion.	Do. do.
12	Do. 25th	Pandishala Ramunni	Do.	Do.	28	Finger slightly cut, caused by the man wilfully keeping his hand on the carding engine whilst in motion.	Do. do.
13	Do. 27th	Ollady Vittil Govindan	Do.	Do.	18	Struck his head against the machine, caused while cleaning the mule and picking up the waste.	Do. do.
14	September, 12th ..	Palacooneth Raman	Do.	Do.	28	Had a fall but no external injury is found, caused by the man falling while cleaning the walls of the roving department.	Do. do.
15	Do. 26th ..	Abd-ul Sadar	Muhammadan ..	Do.	22	Fingers crushed, caused while cleaning the machine in motion.	Do. do.
16	December, 31st ..	Thachambalath Unneeri	Tiyan	Do.	19	A portion of a finger cut off, caused while cleaning a machine whilst in motion.	Do. do.

True copy, with the statement of accidents, submitted to the Chief Secretary to Government.

2. The inspection of the factory on the 16th August 1890 having disclosed a very unsatisfactory state of things, I informed the manager that no further warning or instructions would be given and that if the irregularities noticed, or others, were committed, prosecution would follow immediately.

The factory is now being properly managed.

CALICUT,
28*th April* 1891.

(Signed) J. W. F. DUMERGUE,
Acting Collector.

From G. S. FORBES, Esq., Acting District Magistrate of Tinnevelly, to the Chief Secretary to Government, dated Tinnevelly, 9th June 1891, No. 609.

As promised in paragraph 9 of this office letter, No. 397, dated 15th April 1891, I have the honour to forward herewith copies of the Head Assistant Magistrate's letter, No. 109, dated 24th May 1891, and my Proceedings thereon, No. 608, dated 8th June 1891.

ENCLOSURES.

From T. VARADA RAO, Esq., Acting Head Assistant Magistrate, Tinnevelly, to the District Magistrate, Tinnevelly, dated 24th May 1891, No. 109.

With reference to your docket, dated 21st April 1891, I have the honour to state in paragraph 4 of Mr. Rawson's letter referred to in your docket it is said that "since my inspection on 7th October 1885, however, the managers, Messrs. A. and F. Harvey, have ceased to employ any children and there were none employed on the day of my last visit." Thus the arrangement approved by Government fell through when children were ceased to be employed.

2. On 23rd March 1890 the managers began to employ half-timers or children under 12 years of age. They have been given one hour's rest in the middle of the day, and the working hours have been fixed from 7 A.M. to 5 P.M., as reported in their letter, dated 22nd May 1891. The permission of Government for the new arrangement was not obtained as required under section 7 of the Factory Act.

PROCEEDINGS of the District Magistrate of Tinnevelly, dated 8th June 1891, No. 608.

Read this office letter, No. 422, dated 21st April 1891, requesting the Head Assistant Magistrate to report why the arrangement approved by Government in 1885 regarding the working hours of children in the Factory at Pápanásam was departed from in 1890, and how long the practice of working children for 9 hours a day has been going on.

Read also letter from the Head Assistant Magistrate, No. 109, dated 24th May 1891, reporting that the permission of Government was not obtained for the new arrangement, and that the managers began to employ children from 23rd March 1890.

Order—

No explanation has been given for the neglect on the part of the Head Assistant Magistrate to notice sooner the breach of the rules. The managers should now apply for the requisite permission and explain their neglect to do so, the present hours of child labour being unauthorized. Until sanction is obtained, they must cease to employ children except in accordance with G.O., dated 28th October 1885, Mis. No. 2896, communicated with this office endorsement, No. 876, dated 4th November 1885.

(Signed) G. S. FORBES,
Ag. District Magistrate.

ORDER—dated 25th June 1891, No. 1246, Judicial.

It is observed that there is a considerable want of uniformity in the character of the returns submitted in connection with the inspection of factories, and the Government accordingly resolves to direct that in future the form prescribed in Appendix II to this Proceedings shall, to the exclusion of all others, be invariably adopted by Inspectors of Factories when submitting their annual reports. The form is so comprehensive that very little letter-press will be required in addition; the headings of the columns explain themselves; any remarks found necessary on the subject of accidents,

prosecutions, employment of children below the age of seven years, hours of work and such like will be given in the body of the Inspectors' reports. The statement will be printed on sheets of foolscap size, and will be supplied to all District Magistrates on indent by the Superintendent of the Government Press.

2. The reports—some of which were not received within the prescribed date notwithstanding the reiterated orders of Government on the subject—show that the number of factories falling under the operation of the Factories Act (XV of 1881) during 1890 remained unchanged, the figure being 30 as in the preceding year. This result is due to the appearance for the first time in the list appended to this Proceedings of the Coimbatore Spinning and Weaving Company's Factory, and to the omission therefrom, in accordance with the recommendation of the Inspector, of the Tuticorin Cotton Press belonging to Messrs. Darley, Butler and Co.

3. The number of inspections in the year under review was on the whole satisfactory, though less so than in the preceding year, three * factories having been insufficiently visited in 1890 as against one in 1889. Operations in the Coimbatore factory were commenced only from the 1st September last, but in the remaining two cases the factories are situated at the head-quarters of the Head Assistant and the Joint Magistrate, respectively, and could easily have been examined at least 3 times in the year as required by the rules. The explanations offered for the insufficient inspection of these two factories are not satisfactory.

* Government Workshops, Bezváda.
Tuticorin Cotton Press.
Coimbatore Spinning and Weaving Company's Factory.

4. The following errors and omissions are noticed in the preparation of the reports submitted:—

(1) The number of adult males given in the statement of employés appended to the Godávari report is 154, but this figure does not tally with the total of the details given at the foot of the statement.

(2) In the body of the report on the Nellikuppam Factory, it is stated that no children under 12 years of age were employed, but it is observed that some of the employés are shown as children in the statement of inspections. It has been pointed out on more than one occasion that all employés not below the age of 12 years should be classed as adults, and should not be referred to as children.

(3) Again, the repeated orders of Government that the term "Juvenile" should not be used in these reports have been infringed by the Inspectors of Factories at Aska and Adóni. In the former instance the Inspector appears to denote by this expression individuals not below the age of 12 years, whereas in the latter case children below that age seem to be referred to; this is an example of the confusion resulting from a lax terminology. The use by the Inspector of the Chittavalsa Factory of the expression "Young persons" to denote operatives above 12 years of age is equally objectionable.

(4) From the reports submitted, it is not in the majority of instances clear whether Registers D and E and the files of certificates in Form C have been maintained as required by Rules XV and XIV of the rules framed under the Factories Act. This point should not be neglected in future.

(5) Similarly, the Inspectors have generally omitted to state whether the notice in Form F under Rule XVI, and a copy of the rules framed under the Act, as well as the notice required by section 7 of the Act, have been exhibited in a conspicuous place in the factory. To avoid a recurrence of this omission, a special column for entries in connection with this subject has been provided in Appendix II.

(6) The majority of the Inspecting officers have also failed to state distinctly whether they mustered the children in accordance with Rule VII, and to report the number appearing at muster and the number absent. Particulars with regard to these points are necessary in order to detect any infringement of the rules forbidding the employment of children below the age of seven years.

5. The reports under review are generally satisfactory, and show that due attention is paid to the fencing of the machinery and to the ventilation and sanitation of the

premises. The condition of the preparing room in the Gunny Factory at Chittivalsa should be brought to the notice of the proprietors, with a view to remedying, if possible, the defect complained of.

6. When forwarding his report for 1889, the District Magistrate of Malabar had occasion to comment upon certain irregularities which were found to exist in the management of the Malabar Spinning and Weaving Company's Factory. These defects, some of which were of a grave character, were found to continue when the factory was first visited in the year under review. Similar irregularities were also noticed in the Pápánásam Cotton Spinning Factory. It is, however, reported that the defects observed were in both cases found at subsequent inspections to have been rectified. Considerable scope for improvement seems to exist in the case of the Coimbatore Spinning and Weaving Company's Factory, and it is observed that out of 249 children employed there on the 18th December 1890 only 23 were produced before the Inspector at muster on that date, and eleven of those examined by the Inspector seemed to him to be below the age of seven years. A careful inquiry should now be made into the subject of the employment of children in this factory, with a view to detecting any breach of the law. The action taken by the District Magistrate of Tinnevelly in regard to the Cotton Spinning Factory at Pápánásam, as reported in his letter dated 9th June 1891, No. 609, is approved.

7. There was a marked decline in the number of women employed in 1890, the figure being 1,092 against 1,358 in 1889. The number of children employed advanced, but, as remarked in paragraph 3 *supra*, 40 employés in the Nellikuppam Factory have been shown improperly, it would appear, as children in the Inspector's statement, and if these be excluded, there were 732 children employed in 1890 as against 399 in 1889 and 617 in 1888. The largest number of children was in the Coimbatore Spinning and Weaving Company's Factory.

8. The accidents numbered 117 in 1890 as against 103 in 1887 and 89 in 1888. The figure reported in the year under review appears to be the highest on record since the passing of the Factories Act, 1881. There was, however, as in the previous year, only one fatal accident in 1890, and that occurred at the Carnatic Mills, Madras, where fifteen other accidents are reported to have taken place. The number of cases in the Malabar Spinning and Weaving Company's Factory was also very large, and in the case of both these factories some of the accidents reported seem to suggest that the machinery is not sufficiently guarded. The figures in the margin show the number of hands employed in factories during the last 5 years.

1886	11,850
1887	13,332
1888	14,993
1889	16,890
1890	17,843

9. The Government hopes that Inspectors will show more care in preparing their reports in future; the reports are simple in character and the points to be specially noticed therein few, and it is unsatisfactory to observe the same errors and omissions occurring in them year after year.

(True Extract.)

J. F. PRICE,
Chief Secretary.

To all District Magistrates.
„ the Public Works Department.
„ the Inspector-General of Police.
„ the Commissioner of Police.
„ the Consulting Engineer for Railways.
„ the Superintendent of Government Press.

Exd. A. Raitt.

APPENDIX I.

No.	Situation. District.	Situation. Town or village.	Name of Factory.	Number of hands employed. Men.	Number of hands employed. Women.	Number of hands employed. Children.	Number of accidents.	Machinery whether fenced or not.	Ventilation and sanitation.
1	Bellary	Adóni	Messrs. Dymes and Co.'s Cotton Press ..	36	74	..	1	Not fenced but secure enough.	Good.
2	Do.	Bellary	The Bellary Spinning and Weaving Company.	369	71	30	7	Fenced	Do.
3	Do.	Do.	The Arsenal	216	..	..	..	Do.	Do.
4	Do.	Do.	Messrs. Dymes and Co.'s Cotton Press ..	8	45	..	..	Do.	Do.
5	Coimbatore ..	Coimbatore ..	The Spinning and Weaving Company ..	138	62	272	3	Properly fenced ..	Do.
6	Ganjam	Aska	Minchin Brothers' Sugar Factory ..	292	..	..	5	Securely fenced ..	Clean and well ventilated.
7	Godávari	Dowlaishweram ..	Government Workshop ..	145	3	40	1	Fenced	Good.
8	Kistna	Bezváda	Do. do. ..	310	..	5	..	Do.	Do.
9	Madras	Perambur	Railway Workshop	2,938	..	..	8	Sufficiently fenced ..	Do.
10	Do.	Madras	Gun Carriage Factory	921	2	..	2	Yes	Do.
11	Do.	Do.	South India Spinning and Weaving Mill ..	781	20	..	6	Do.	Do.
12	Do.	Do.	Harbour Works	724	31	..	15	Do.	Do.
13	Do.	Do.	Napier Works	208	..	..	2	Do.	Do.
14	Do.	Do.	Public Works Workshop ..	238	.. 2	..	5	Do.	Do.
15	Do.	Do.	Madras United Spinning and Weaving Mill.	672	48	26	6	Do.	Do.
16	Do.	Do.	Buckingham Mill	790	47	74	4	Do.	Do.
17	Do.	Do.	Carnatic Mill	1,479	79	24	16	Do.	Do.
18	Do.	Do.	Cement Works	84	96	..	..	Do.	Do.
19	Do.	Do.	*Bee-hive Foundry*	171	..	14	1	Do.	Do.
20	Do.	Do.	Messrs. Simpson and Co.	351	..	37	2	Properly fenced ..	Do.
21	Malabar	Panniankara ..	Malabar Spinning and Weaving Co. ..	254	23	68	16	All securely fenced ..	Clean and well ventilated.
22	Nilgiris	Ootacamund ..	Murree Brewery Company	77	12	..	..	Properly fenced ..	Sufficient ventilation. Premises being cleaned and fair.
23	South Arcot	Tiruvennanallur ..	Messrs. Parry and Co.'s Sugar Factory and Distillery.	491	56	40	7	Fenced	Fairly good.
24	Do.	Nellikuppam ..	Messrs. Parry and Co.'s Sugar Mill, Refinery and Distillery.	2,213	..	..	4	Sufficiently fenced ..	Good.
25	Tanjore	Negapatam ..	South Indian Railway Locomotive and Carriage Shops.	72	12	..	..	Fencing satisfactory.	Satisfactory.
26	Tinnevelly	Tuticorin	Tuticorin Cotton Press Company ..	356	184	110	2	Do.	Do.
27	Do.	Do.	The Coral Mill's Company (Limited)	328	124	42	1	Properly fenced ..	Good.
28	Do.	Pápanásam ..	Cotton Spinning Factory	607	..	..	1	Sufficiently fenced ..	Do.
29	Trichinopoly ..	Trichinopoly ..	South Indian Railway Engineering Workshop.	679	93	..	2	Properly fenced ..	Do.
30	Vizagapatam ..	Chittivalsa ..	Messrs. Arbuthnot and Co.'s Gunny Factory.						
			Total Men ..	15,979	1,092	772	117		
			Women ..	1,092					
			Children ..	772					
			Employés ..	17,843					

APPENDIX II.

FORM of Return to be annually submitted by Inspectors of Factories, so as to reach Government by the 31st March.

1	2	3	4				5		6	7	8	9	10				11		12
Name and description of Factory.	Name of Resident Manager.	Date of Inspection.	Number of persons at work on the date of inspection.				Number of children mustered.		Whether Registers D and E and the file of certificates in Form C are kept.	Whether (1) Form F under Rule XVI, (2) a copy of the Rules framed under the Act, and (3) the notice required by section 7 of the Act, are put up in a conspicuous place.	Whether machinery is fenced or not.	State of ventilation and sanitation.	Number of persons employed at the end of the year under report.				Maximum number of hands employed on any day during the year.		Number of accidents during the year.
			Adults.		Children.								Adults.		Children.				
			Males.	Females.	Males.	Females.	Males.	Females.					Males.	Females.	Males.	Females.	Adults.	Children.	

Gobt. of {1891} Madras.

JUDICIAL.

No 1898 W of 10th July 1891

Communicated to Supdtg. Engrs Concerned for information.

(Sd) J. P.
W

Issued

Read. Encl.

G.O., 25th June 1891, No. 1246.

JUNE.

S. Es I, II & V circles.

Indian Factories Act.

Reviewing the reports on the working of the — in the Presidency during the year 1890.