GOVERNMENT OF MADRAS.

JUDICIAL DEPARTMENT.

Read—the following papers :—

From the District Magistrate,	Chingleput,	dated	22nd	January	1887,	No. 102.
„ „	Madura „	„	27th	„	„	„ 5.
„ „	Coimbatore „	„	1st	March	„	„ B.
„ „	Salem „	„	17th	„	„	„ 375.
„ „	Malabar „	„	31st	„	„	„ 1480.
„ „	Trichinopoly „	„	28th	April	„	„ 24-2.
„ „	Kurnool „	„	15th	„	„	„ 125.

Abstract.—Reporting that there are no factories in the district.

From M.R.Ry. A. SURYANARAYANA NAIDU GAR, General Deputy Magistrate, to the District Magistrate of Ganjam, dated Russellkonda, 7th January 1887, No. 3.

I have the honor to submit the report under the Factories Act for the year 1886.

2. There is only one factory in the division, *i.e.*, the Sugar Factory of Messrs. Minchin Brothers and Co. at Aska.

3. I inspected this factory on four occasions in the year under report, viz., 31st March, 11th June, 31st August and 18th December 1886.

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

5. All dangerous machinery was securely fenced.

6. The rule as to posting up in a conspicuous place notice of working hours, as also rules and forms in English and Telugu, was properly observed.

7. On the whole, the factory and premises are in a thoroughly satisfactory condition, and I have received every assistance in my inspections from the manager.

8. Seven accidents were reported to me during the year. The injured persons were treated successfully in the local fund dispensary at Aska. A statement showing the details of each case is annexed :—

No.	Date of accident.	Name.	Caste.	Sex.	Age.	Nature of injury.
					Years.	
1	14th January 1886..	Issara Naick.	Bowri ..	Male..	28	Left foot injured by trash rake caused by another cooly while drawing cane trash from diffuson.
2	17th February 1886.	Looddu Naik.	Do. ..	Do.	25	Right foot injured by a piece of machinery in which he was engaged in hoisting, slipping on it.
3	27th March 1886 ..	Kallooswayi.	Halliya ..	Do.	40	Middle and fourth fingers of left hand slightly crushed at the ends, while putting a cast-iron wheel in motion.
4	10th May 1886 ..	Chendramony.	Chuckler ..	Do.	25	Lacerated wound about 3 inches long on the back of his right hand at the root of the fingers and extending up, in two fingers, to the first joint of them, caused by putting a belt on a centrifugal driving wheel in full motion.
5	12th August 1886 ..	Binaikosow..	Goodia ..	Do.	24	Lacerated wound on the back of his right hand caused by putting a belt on a centrifugal driving wheel in full motion.
6	3rd October 1886 ..	Moothoo Pathro.	Fisherman.	Do.	35	Back of right hand slightly bruised when oiling the engine during motion.
7	26th November 1886.	Monigowdu..	Gowdu ..	Do.	48	Right leg was caught in one of the centrifugal belt wheels, whereby his ankle was dislocated and many cuts were made in other parts of his leg.

9. 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.	Male.	Female.			
Sugar Factory at Aska.	31st March 1886.. ..	358	..	84	..	Securely fenced.	Clean and well ventilated.	
	11th June 1886 ..	159	..	38	..	Do.	Do.	do.
	31st August 1886 ..	474	..	53	..	Do.	Do.	do.
	18th December 1886 ..	482	..	20	..	Do.	Do.	do.

No. 11-E.

Endorsement on the above.

Submitted to the Chief Secretary to Government, Judicial Department, Fort St. George.

Russellkonda, 29*th January* 1887.

(Signed) J. G. HORSFALL, *District Magistrate.*

From P. RAMACHENDRA ROW, Esq., Acting Head Assistant Magistrate and Inspector of Factories, Kistna district, to the District Magistrate, Kistna, dated Bezváda, 19th January 1887, No. 9.

I have the honor to submit my report, under the Factories Act XV of 1881, for the calendar year 1886.

2. There is only one factory in the division, viz., the Department of Public Works Workshops, Bezváda.

3. This factory was inspected by me on the 22nd September, and by my predecessor on 2nd February and 6th March, respectively.

4. The rule as to posting up in a conspicuous place notice of working hours and holidays, as also rules and forms in English and Telugu (*vide* Rule XXIII), was being properly observed.

5. The registers under Forms D and E were kept, and the certificates given in Form C by the certifying surgeon were pasted in a book.

6. A notice, giving particulars as to the intervals for food and rest to children, was also posted in front of the factory.

7. The hours fixed were from 6 A.M. to 6 P.M., with two hours interval, that is, ten hours in all.

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

9. No accidents were reported in the year under report.

10. I enclose a statement showing the number of persons employed at the time of inspection, and the state of the factory with reference to sanitation and ventilation.

Enclosure.

Statement.

Name of the division.	Name of factory.	Number of persons employed at the time of inspection.				Machinery whether fenced or not.	Ventilation and sanitation.	Date of inspection.
		Adults.		Juveniles.				
		Men.	Women.	Male.	Female.			
Head Assistant Magistrate's division.	Government D.P.W. Workshops, Bezváda.	181	..	3	..	Safe ..	Good ..	2nd Feb. 1886.
		194	..	4	..	Do. ..	Do. ..	6th Mar. ,,
		180	..	5	..	Do. ..	Do. ..	22nd Sept. ,,

No. 95.

Endorsement on the above.

Submitted to the Chief Secretary to Government in the Judicial Department, with reference to G.O., No. 329, dated 9th February 1883.

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

Masulipatam, 2*nd February* 1887.

(Signed) R. SEWELL, *Acting District Magistrate.*

From F. H. HAMNETT, Esq., Acting Joint Magistrate, to the Magistrate, Godávari District, dated Gannavaram, 1st February 1887, No. 25.

I have the honor to report on the working of the Factories Act XV of 1881 during the year 1886.

2. The Government workshop at Dowlaishweram is the only factory in the division coming within the scope of the Act. It was inspected by me twice during the year. There were employed at the factory 240 males and 3 females at the time of my first inspection on 10th June 1886, and 155 males and 4 females at the second inspection on 2nd August 1886. All of them were stated to be adults. At the time of my inspection there were twelve bellows-boys who were all reported to be over 12 years of age, but three of them did not, from their appearance, seem to be so old, and I therefore directed that, unless a certificate from the Civil Surgeon was obtained that these boys were over 12 years of age, registers in Forms D and E should be opened.

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

4. All dangerous machinery was properly fenced.

5. There were no accidents during the year.

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

7. The statements prescribed by Government in their order, No. 1760, dated 7th July 1885, is enclosed.

Enclosure.

Statement showing the number of persons employed at the end of the year 1886 in the Government Workshop, Dowlaishweram.

Name of district.	Name of factory.	Number of persons employed at the end of the year 1886.				Machinery whether fenced or not.	Ventilation and sanitation.	Remarks.
		Adults.		Juveniles.				
		Males.	Females.	Males.	Females.			
Godávari district.	Government Workshop..	134	4	66	..	Fenced ..	Good.	..

No. 3.

Endorsement on the above.

Submitted to Government with enclosures.

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

Cocanada,
14*th February* 1887.

Report on Railway Factories for the year 1886.

The two Railway Workshops in the presidency were each inspected three times during the year.

2. No children are employed in any of them.

3. The machinery at the Negapatam works is at present somewhat crowded, and will remain so until the extensions of shops, now in progress, are completed.

4. A detailed statement of the accidents which have taken place during the year is herewith submitted with a list of factories.

5. None of the accidents were serious.

(Signed) W. H. COAKER, Major, R.E.,
Inspector of Railway Factories.

Enclosures.

Detailed statement of Factory accidents on the Madras and South Indian Railways for 1886.

Railway.	Factory.	Date.	Remarks.
Madras Railway ..	Perambúr Works ..	31st March ..	A striker was injured by the staff bar of a steam hammer breaking and striking him.
Do. ..	Do. ..	8th May ..	A striker was injured by his thumb getting caught between a hook and the standard of the steam shears.
Do. ..	Do. ..	13th August ..	A machine-man was injured by his finger getting caught in the cog-wheel of a planing machine.
Do. ..	Do. ..	1st October ..	A blacksmith was injured by a chip of iron striking him in the eye.
Do. ..	Do. ..	6th December ..	A cooly was injured by a wheel running over his toe.
Do. ..	Do. ..	30th March ..	A blacksmith was injured by the fall of a sledge hammer.
South Indian Railway.	Negapatam Works ..	19th August ..	A striker was injured by one of his fingers getting between two wheels which he was pushing.
Do. ..	Do. ..	16th September ..	A cooly was injured by a piece of iron striking him on the throat.
Do. ..	Do. ..	18th October ..	A turner was injured by the handle of a crab winch striking him on the eye.
Do. ..	Do. ..	27th ,, ..	A fitter was injured by an axle-box falling upon him while it was being removed from the vehicle.
Do. ..	Do. ..	4th November ..	A fitter was injured by a piece of iron striking him in the eye.
Do. ..	Do. ..	10th ,, ..	A cooly was injured by the wheels of a cart running over his foot.
Do. ..	Do. ..	29th ,, ..	A cooly was injured by falling from a ladder while putting the belt on machine.
Do. ..	Do. ..	14th December ..	A cooly was injured by an iron plate which was being drilled falling on his foot.

List of Factories.

Name of district.	Name of factory.	Names of persons ordinarily employed.				Machinery whether fenced or not.	Ventilation and sanitation.
		Adults.		Juveniles.			
		Men.	Women.	Males.	Females.		
Madras ..	Perambúr Railway Workshops.	2,727	..	..	..	Sufficiently fenced.	Good.
Tanjore ..	South Indian Railway Locomotive and Carriage shops.	1,573	..	..	..	Do. ..	Do.

No. 52.

Endorsement on the above.

Submitted to Government, in the Judicial Department, with reference to their Proceedings, No. 329, dated 9th February 1883.

(Signed) W. H. COAKER, Major, R.E.,
for *Consulting Engineer for Railways.*

From M.R.Ry. V. JAGANNADHA ROW, Deputy Magistrate and Inspector of the Factory, to the District Magistrate, Vizagapatam, dated Vizianagrum, 26th January 1887, No. 9.

I have the honor to submit my report on the working of the Chittivalasa factory for the year 1886.

2. This is a gunny factory belonging to Messrs. Arbuthnot and Co. During the year under report I inspected the factory thrice without giving previous notice, viz :—

(1) On the 14th April between 5½ to 6½ P.M.;
(2) ,, 4th Sept. ,, 3 and 4 P.M.; and
(3) ,, 22nd Dec. ,, 11 A.M. and 2 P.M.

On all these occasions Mr. Innes, the manager of the factory, was on the premises and rendered me all necessary assistance.

3. In this factory jute is cleaned, twined and woven, and is 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 Sundays and also on eight English, and nine-and-a-half Native, holidays during the year. The working hours were the same as stated in the report for the year 1885, viz., from 5-30 A.M. to 6-30 P.M., with an interval of one-and-a-half hours from 12 to 1-30 P.M. in the months of November to the end of March, and of two hours from 12 to 2 P.M. in the months of April to October, except on Saturdays, when the engine stopped at 4-30 P.M. with an interval of only an hour at noon.

5. The average number of persons employed daily during the year was 691, and the number of persons at work on the dates of inspection was as follows :—

Date.	Men.		Women.	
	Above 16.	12 to 16.	Above 16.	12 to 16.
14th April 1886	304	263	78	9
4th September 1886	300	254	82	11
22nd December 1886	316	257	90	12

No children under 12 years were employed in the factory.

6. The factory is usually whitewashed and cleaned once a year. This was last done in December 1885 and completed in February 1886, and the work this year was begun on the 25th December 1886, and will, it is stated, be completed next month. The latrines were, as usual, scoured by hot water that escaped from the engine, and the arrangement seemed to me to answer the purpose very well.

7. The rooms of the building are properly ventilated, and in no department of the factory do the workmen experience inconvenience. In the preparing room, however, there is much dust, but the workmen are accustomed to work in it with a cloth over their mouths.

8. The temperature in the working room at the time of my inspections was as follows:—

On the 14th April 1886 = 91°
" 4th Sept. " = 92°
" 22nd Dec. " = 81°

9. Wherever it was necessary or possible the machinery has been fenced and protected either by iron rails or by iron and wooden shields, so as to effectually prevent all chances of accidents. The calender rollers have been protected with small guide rollers for the purpose of conducting the cloth to the in-running side of the upper calendering rollers. These are now worked safely and with ease.

10. Two accidents were reported during the year under report—

(1) On the 28th July, at 11-30 A.M., a pariah named Nidigathi Asirigadu while employed as a hammerman, a chip of metal fled from the head of a rivet which was being cut out of an old steam boiler, and caused a cut on the upper part of his chest.

(2) On the 14th August last, at about 4 P.M., a washerman named Seelayerrayya, who had been employed as a rover, got the thumb of his right hand bruised in opening the wheel-guard of No. 1 roving and cleaning the wheel-gearing while in motion.

Both these men were sent to the dispensary at Bimlipatam for treatment and soon recovered. They both returned to work on the 9th September 1886.

11. Certificates of age were granted to all young persons employed in the factory, in Form C appended to the rules, by the civil apothecary in charge of the municipal dispensary at Bimlipatam, who was appointed* as certifying surgeon under section 5 of the Factories Act XV, 1881. A file of these certificates is maintained as required by Rule XIV.

* *Vide* Notification, dated 31st May 1886, No. 240, published at page 565 of the *Fort St. George Gazette*, dated the 18th June 1886.

13. Registers D and E are not kept in the factory, as no children under twelve years of age were employed.

14. A notice of daily working hours has been maintained in Form "F" as required by Rule XVI, as also a list of holidays, both of which were hung up in a conspicuous part of the office room in the factory.

15. Printed copies of the rules and forms, with Telugu translations thereof, have also been kept on the outer walls of the office room.

16. I inspected many of the young persons employed in the factory, and they looked healthy and cheerful.

17. Registers A and B, required to be kept in my office under Rule 2, have been duly maintained.

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

Enclosure.

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 the district.	Name of factory.	Number of persons employed at the end of the year.				Machinery whether fenced or not.	Ventilation and sanitation.
		Adults.		Juveniles.			
		Men.	Women.	Males.	Females.		
Vizagapatam	Gunny Factory at Chittivalasa.	316	90	257	12	Fenced or otherwise protected.	Good.

No. 290.

Endorsement on the above.

Submitted to Government for information. The two accidents mentioned were not of a serious nature.

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

Vizagapatam, *5th March* 1887. (Signed) V. JAGANNADHA ROW, *District Magistrate.*

From Colonel T. WELDON, Commissioner of Police, to the Chief Secretary to Government, dated Madras, 31st March 1887, No. 31.

I have the honor to forward the report of the Deputy Commissioner of Police as Inspector of Factories for the year 1886.

2. The only noticeable accident was an explosion in the sizing room of the "Carnatic" Mills. The cause remains unknown. Fortunately no one was hurt and comparatively little injury done to the building.

3. The Deputy Commissioner notices with regret the cessation of employment formerly given to juveniles at these mills. I understand, however, that some of the mills propose to revert to the former practice to a limited extent.

Enclosures.

From S. D. SIMPSON, Esq., Deputy Commissioner, to the Chief Commissioner of Police, dated Madras, 29th March 1887, No. 28.

I have the honor to report that the factories in the City of Madras were visited by me during the calendar year 1886, as stated below:—

Name of factory.	Date of inspection.	Number of times examined.
Buckingham Mill Company	26th Mar., 30th Aug., and 29th Dec. 1886.	3
Carnatic Mill Company	26th Mar., 30th Aug., and 29th Dec. "	3
Gun Carriage Factory	11th May, 8th Sept., and 21st Dec. "	3
Gunpowder do.	10th May, 25th Sept., and 16th Dec. "	3
Southern India Spinning and Weaving Company.	18th Jan., 25th Mar., 13th May, and 15th Nov. 1886.	4
Harbour Works	14th Apr., 25th Aug., and 29th Nov. 1886.	3
Public Works Workshops	17th Apr., 24th Aug , and 10th Dec. "	3
The Arsenal	20th Apr., 25th Aug., and 2nd Dec. "	3
Madras United Spinning and Weaving Mill.	10th May, 31st Aug., and 17th Dec. "	3
Massey's Iron Foundry	20th May, 27th Aug., and 25th Nov. "	3
Cement Works	20th May, 27th Aug., and 25th Nov. "	3

2. *Accidents.*—I append a list of accidents. There were 31 accidents this year against 38 last year. Statement A shows in detail the number in each factory, how they occurred, and the extent and description of the injury in each case. It will be seen from this statement that the injuries sustained in all but four cases were trivial, and that none proved fatal. There was, however, an accident in the Carnatic Mill which, but for the explosion occurring roofwards, would certainly have proved fatal to some eight persons.

In the sizing room of this mill, there are two sizing machines. Each machine had two cylinders made of copper and are used for drying purposes. The dimensions of the cylinders are—diameter 6 feet and 4 feet, respectively, and length 92 inches.

On the morning of the 27th of December 1886, while it was yet dark in the room, these machines were at work and being attended to by the two natives (sizers) in charge of them and six assistants (coolies). It is said that all of a sudden, without any apparent cause or any warning, a cylinder of one of the machines burst on the uppermost side or perpendicularly and knocked out of the wall four large framed glass windows, which were about 15 to 18 feet, off the ground, and also caused the companion cylinder to collapse. There were six persons close by at the time, but only one of them got slightly cut in the foot.

The barrel or drying surface of the cylinders are, as I said before, made of copper, the metal being one-sixteenth of an inch in thickness. The flanges, with patent ring, clasped joints and longitudinal stays, being made of wrought iron and the axles of cast iron.

The cylinders are worked at a pressure from 10 to 14 lb. That at which they are tested in England is not known, but their indicators register 20 lb. to a square inch.

By the arrangement of the safety or blow-off valve, the pressure at the time of the explosion could not possibly have exceeded 14 lb. per square inch. The man in charge says that he was working at 10 lb. pressure and no more, and can give no explanation as to the cause of the accident. The manager can only surmise that a weight of some kind must have been carelessly placed on the safety valve by one of the natives in the room.

I have examined the copper barrels and can find no trace of a flaw anywhere. These cylinders are not made by the makers of the machines, Messrs. Howard and Bullough, nor is it known who made them, but I am told that they are generally made by Lang Bridge Aurington, Lancashire, for Messrs. Howard and Bullough, and are tested by hydraulic power before they are sent out to this country. At the time of the explosion, the cylinders had been in constant use since September 1885.

3. *Children.*—The Buckingham and Carnatic Mills, while still retaining children formerly on the registers as stated in my report for the year 1884, object to employing such young hands. During the year 193 (183 boys and 10 girls) children applied for employment but were refused admission, as the medical officer certified them to be under 12 years of age.

In 1882, when the Factory Act came into operation, there were 73 children in all registered in the different factories; the following statement shows exactly how they stood year by year since then:—

Statement showing the number of children employed in Mills from the year 1882.

No.	Name of Mill.	Years. 1882.	1883	1884.	1885.	1886.	—
1	Southern India Spinning and Weaving Mill ..	21	..	..	..	..	* Discontinued from 1st July 1883.
2	Madras United Spinning and Weaving Mill ..	12	* 12	..	..	..	
3	Buckingham Mill	40	54	79	22	8	
4	Carnatic Mill	..	130	81	39	24	

It will be observed from the above that the Ráyapuram Mill (Southern India Spinning and Weaving Company) ceased to employ "child" labor in 1882, the Choolay Mill (Madras United Spinning and Weaving Company) in 1883, and the Buckingham and Carnatic Mills (which are worked by European managers and are under the care and direction of Messrs. Binny and Co.) in 1884. Some of the retained children having since attained age (12 years) have been transferred from the juvenile to the adult register. There now remain only 31 boys and 1 girl who are allowed the usual holidays during the year and are well cared for.

As I said in my report for 1884, I regret very much the discontinuance of employing children particularly in the Buckingham and Carnatic Mills. Since that year no less than 740 children, as per margin, have been rejected, who, if employed, would have been kept off the streets and been a help to their parents. There can be no doubt whatever that boys well trained turn out good workmen and are more amenable to mill regulations than undisciplined adults taken from the city.

1884	210
1885	337
1886	193
Total ..	740

4. The following table shows the number of persons employed at the end of the year and the state of the factories in regard to sanitation and ventilation:—

Name of factory.	Number of persons employed at the end of the year. Adults. Men.	Adults. Women.	Children. Male.	Children. Female.	Machinery whether fenced or not.	Ventilation and sanitation.
Buckingham Mill Company	585	71	8	..	Yes ..	Good.
Carnatic Mill Company	697	51	23	1	Do. ..	Do.
Gun Carriage Factory	428	1	..	..	Do. ..	Do.
Gun Powder Factory	96	8	..	..	Do. ..	Do.
Southern India Spinning and Weaving Mill	464	16	..	..	Do. ..	Do.
Harbour Works	730	79	..	..	Do. ..	Do.
Public Works Workshops	233	2	..	..	Do. ..	Do.
The Arsenal	533	..	..	..	Do. ..	Do.
Madras United Spinning and Weaving Mill ..	488	11	..	..	Do. ..	Do.
Massey's Iron Foundry	232	..	..	..	Do. ..	Do.
Cement Works	194	89	..	..	Do. ..	Do.

Statement A.

Name of factory.	Date of accident.	Name of person injured.	Nature of injury.
Buckingham Mill	10th Mar. 1886 ..	Vencatsamy *	Right arm broken and cut over right eye by his carelessness in getting his arm round a strap pulley.
Do.	12th June ,, ..	Cundasamy	Injury to second finger of right hand caused by putting it in a pinion of roving frame.
Do.	16th July ,, ..	Thoorgappa	Slight injury to first finger of right hand by putting it on catch.
Do.	1st Aug. ,, ..	Soobroyen *	Right wrist broken by putting his hand in squaring band pulley.
Carnatic Mill	14th Mar. ,, ..	Shaik Adam	Hurt on thumb of right hand by putting it betwixt the wheels while in motion.
Do.	28th Mar. ,, ..	Moonesamy	Slight hurt on first finger of right hand by putting it in the frame while working.
Do.	1st April ,, ..	Fuckroodeen	Slight hurt on second finger of right hand by putting it in the winding frame while working.
Do.	15th April ,, ..	Ponnusamy	Slight hurt on second and third fingers of right hand by putting them betwixt two wheels while in motion.
Do.	23rd Aug. ,, ..	Ponnan	Hurt on left hand by putting it in the sizing frame.
Do.	24th Aug. ,, ..	Patchay	Hurt on second finger of left hand by putting his finger while working in the frame.
Do.	24th Nov. ,, ..	Mahomed Sheriff ..	Hurt on his left finger by putting his hand between ticker-in and seed-rollers while working in carding engine.
Do.	27th Nov. ,, ..	Ponnen	Slight hurt on his right leg caused by explosion of two sizing cylinders.
Gun Carriage Factory ..	18th Jan. ,, ..	Moonesamy	Injured the first joint of second finger of right hand while working at one of the circular saws.
Do. ..	28th Jan. ,, ..	Abdul Kadir *	Thumb of left hand smashed while working at the shearing machine.
Do. ..	5th Mar. ,, ..	Moonesamy	Injured toe of right foot by the fall of a log while working at the saw pit.
Do. ..	16th Mar. ,, ..	Rungian	Injured left foot by the fall of a bar of iron.
Do. ..	6th Sept. ,, ..	Alagappen	Injured his right thumb while sawing timber.
Do. ..	20th Sept. ,, ..	Veerasamy	Injured on third and fourth fingers of left hand.
Do. ..	16th Oct. ,, ..	Mahomed Ayath ..	Injured his left knee while tieing a wheel.
Gun Powder Factory ..	2nd Feb. ,, ..	Soobroyan	Scald caused by hot water from a steam-pipe falling on the back of the man while disconnecting the pipes.
Do. ..	2nd April ,, ..	Kotappah	Wound caused by his fingers coming in contact with a barrel containing saltpetre.
Do. ..	21st June ,, ..	Veerasamy	Sprain (back) while lifting up a barrel of powder.
Do. ..	14th Dec. ,, ..	Chengalaney	Contusion on the right hip caused by the fall of the mixing hopper on his hip.
Southern India Spinning and Weaving Mill.	25th Nov. ,, ..	Mauree	Two fingers slightly bruised.
Do. ..	7th Dec. ,, ..	Moonesamy *	Left arm (broken) severely injured by lap machine while removing cover while in motion.

Statement A—*continued.*

Name of factory.	Date of accident.	Name of person injured.	Nature of injury.
Public Works Workshops.	25th Feb. 1886 ..	Vencatachellum ..	Second and third fingers of right hand have been slightly hurt by the fall of a cast iron furnace door.
Do. ..	14th Sept. ,, ..	Sithadoo	Cut on the calf of right leg caused by a knife slipping when cutting leather.
Madras United Spinning and Weaving Mill.	26th April ,, ..	Govinduragulu	Wounded over the right ear and right side of head by striking against a mule while working.
Do. ..	26th July ,, ..	Abdul Rhyman ..	Laceration over the right hand palm by letting his hand catch in a carding machine.
Do. ..	12th Sept. ,, ..	Mungapathy	Cut and laceration on the middle two fingers of his right hand.
Do. ..	3rd Oct. ,, ..	Samen	Wound on the right thigh caused by his recklessness while working in a mule.

From H. P. GORDON, Esq., District Magistrate, South Arcot, to the Chief Secretary to Government, dated Cuddalore, 31st March 1887, No. 28.

I have the honor, with reference to G.O., No. 625, dated 5th May 1883, Judicial, and paragraph 6 of G.O., No. 193 of the 9th February 1882, to forward herewith reports * (with enclosures) from the Temporary Deputy Magistrate and Deputy Magistrate on General Duties on the working of the Factories Act XV of 1881 during the calendar year ending 31st December 1886.

* Temporary Deputy Magistrate's No. 27, 5th Feb. 1887, and No. 38, 22nd Feb. 1887. General Duty Deputy Magistrate's letter, No. 3, 9th February 1887.

2. The only factories falling within the definition of the Act which were in working order in this district during the year under report were those at Nellikuppam and Tiruvennanallúr. The latter establishment, which was damaged by the floods of November 1884, was under repair during a considerable part of the year.

3. The factory at Nellikuppam was inspected by the then Assistant Magistrate (Mr. Morris) and the Temporary Deputy Magistrate on three occasions during the year. The sanitary condition of the building is reported to be good and it is well ventilated. Two accidents occurred in this establishment during the year as shown below :—

(1) On 23rd January 1886, one Chinnaswami Pillai got the palm of his right hand torn by the wheel of a machine. He was treated in the Manjakuppam dispensary and was cured.

(2) On the 18th August 1886, one Peria Muthukristnan, who was drunk at the time, accidentally fell from the top of a tower, 25 feet high. He died on the way to the hospital.

4. The factory at Tiruvennanallúr was twice inspected by the Deputy Magistrate, and he reports that the sanitary condition was good on the first occasion but unsatisfactory on the second. From further information supplied by the Deputy Collector, it would appear that the condition of the factory on this occasion was untidy rather than insanitary. The ventilation in the witzel room is said not to be good. There were no accidents in this establishment.

5. Statements called for in G.O., No. 1760 of the 7th July 1885, are submitted.

Enclosures.

From M.R.Ry. T. V. NARAYANASWAMI AIYER AVARGAL, Temporary Deputy Magistrate of South Arcot, to the District Magistrate of South Arcot, dated Cuddalore, 5th February 1887, No. 27.

I have the honor to submit my report on the working of the Factory Act No. XV of 1881 during the year 1886.

2. The Nellikuppam Sugar factory and Spirit distillery belonging to Messrs. Parry and Co. was the only factory that was brought to register during the year under report. This factory was inspected by me and my predecessor, Mr. Morris, on three occasions as noted in the margin, and I submit herewith an extract from the registers A and B. As a rule, boys and girls, below the prescribed limit of age, were not employed in this factory, and consequently no registers in the Forms D and E (Rule XV) and no file of certificates in Form C (Rule XIV) were maintained during the year.

By Mr. Morris.	*By Temporary Deputy Magistrate.*
1. 12th March 1886.	3. 22nd December 1886.
2. 8th August 1886.	

3. There were two * accidents during the year under report as detailed below :—

* *Vide* statement enclosed.

(1) On the 23rd January 1886, one Chinnaswami Pillai came in contact with the wheel of a machine with which he had no business to interfere and got his right palm torn. The injured man was immediately removed to the municipal dispenaary at Manjakuppam where he was treated and cured.

(2) On the 18th August 1886, at about 8 P.M., a man named Peria Muthukristnan, aged about 45, who was working on the top of a bone tower, 25 feet high, situated within the factory compound, accidentally fell down and received serious wounds and some of his bones were fractured. The man was immediately sent to the hospital, but died on the way. During the inquiry held by my predecessor, it was found that the man was under the influence of liquor and it was in consequence of this that he fell. Due notices of these accidents were given to this office by the Factory Agent as required by the rules.

4. The sanitary condition of the factory premises has been good, and the building has been provided with proper means of ventilation.

5. There were no prosecutions during the year.

Statement showing the accidents occurred in the Factory at Nellikuppam registered under the Factories Act XV of 1881 during the year 1886.

Name of the factory, village and taluk.	Date of occurrence.	Name of the persons injured and his age.	Nature of injury and how caused.	Steps taken towards the injured persons and the result of it.
Factory of Messrs. Parry and Co. at Nellikuppam, Cuddalore taluk.	23rd January 1886, at 11 A.M.	Chinnaswami Pillai, aged 25.	Palm of his right hand torn when coming in contact with a wheel of a machine.	The man was removed to the dispensary at Manjakuppam where he was treated and cured.
Do.	18th August 1886, at 8 P.M.	Peria Muthukristnan, Pariah, aged about 45.	Received serious wounds all over his body, and bones fractured by falling down from a bone tower which is 25 feet high.	The wounded was being removed to the hospital, on the way he died, and the body was handed over to the relatives.

From M.R.Ry. T. V. NARAYANASWAMI AIYER AVARGAL, Temporary Deputy Magistrate of South Arcot, to the District Magistrate of South Arcot, dated Cuddalore, 22nd February 1887, No. 38.

With reference to your docket, No. 46, dated 19th instant, I have the honor to subjoin a statement in the form referred to in paragraph 4 of the letter from the Deputy Commissioner of Police printed in G.O., No. 1760, dated 7th July 1885, with regard to the factory at Nellikuppam :—

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.		Juveniles.			
		Men.	Women.	Male.	Female.		
South Arcot district.	Messrs. Parry and Co's Sugar factory and Spirit distillery at Nellikuppam.	Sugar Factory.					
		341	43	..	..	Fenced.	Good.
		Spirit Distillery.					
		35	..	..	..	Do. ..	Do.

From M.R.Ry. K. SUBBA RAO PANTULU GARU, Deputy Magistrate of South Arcot, to the District Magistrate of South Arcot, dated Jambai, 9th February 1887, No. 3.

I have the honor to submit my report on the working of the Factory Act in this division for 1886.

2. Of the two factories in this division, the Sugar factory and Arrack distillery of Messrs. Parry and Co. at Tiruvennanallúr was registered in 1881, but the other Sugar factory at Eruvalipatt has not been registered as the daily coolies employed there are considerably below 100 in number.

3. The Tiruvennanallúr factory was twice inspected by me during the year, and a statement showing the state of the factory, with reference to sanitation and ventilation, is herein enclosed. For several months the buildings were under repairs. I have also twice inspected the Eruvaliput factory and I found the buildings in repairs.

5. No accidents have been reported to me during the year.

A *nil* statement is herewith submitted.

Form B.

Register of Inspection of Factories.

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.				Machinery whether fenced or not.	Ventilation and sanitation.	Remarks.
				Adults.		Children.				
				Men.	Women.	Male.	Female.			
1	Sugar factory at Tiruvennanallúr.	E. J. G. Gill, Esq., Agent.	12th Apr. 1886.	22	..	..	..	Important 3 machines are fenced.	Ventilation good except in witzel room. Sanitation good within the premises of the factory. The compound is covered by the refuse of the crushed cane, &c.	As a rule children below 12 are not employed. There are some machines which will have to be fenced if children are employed. D and E Registers are always *nil* for want of children employed on work. Building under construction. The well by the indigo vat is in need of parapet wall, as bandies pass by it with much unsafety.
			30th Nov. 1886.	39	4	..	..	Machines are not at work.	Sanitation not satisfactory.	

From M.R.Ry. L. A. SWAMI IYER AVERGAL, Temporary Deputy Magistrate, to the District Magistrate of Bellary, dated 28th February 1887, No. 93.

I have the honor to submit the annual report on the working of the Factories Act XV of 1881 for the calendar year 1886, together with the prescribed statement.

2. The only factory registered under the Act in the division is the Spinning Mill of Messrs. A. Sabapathy Mudalliar and Co. at Bellary. It was inspected by me on the 20th August 1886, and there were no more inspections during the year on account of constant changes of officers. I was in charge of the division from 22nd March up to 17th September during the year.

3. The number of people employed in the factory on the date of my inspection was 266 as detailed below:—

Men	214
Women	52
	266

They looked healthy and strong.

4. A file of certificates granted by the Civil Surgeon has been maintained.

5. No registers in forms D and E are kept, as no children are employed in the factory.

6. Notice F, in vernacular and English, is suspended at the entrance of the spinning rooms. The working hours were from 6 A.M. to 6 P.M., with a recess of half-an-hour for food and rest. The boys are permitted fifteen minutes rest for every four hours for recreation. Two Sundays in a month are allowed as holidays in addition to the Hindu and Muhammadan festival days.

7. Ventilation and sanitary arrangements are good.

8. The machinery is well fenced. There were no accidents and no prosecutions during the year.

Enclosure.

Name of the district.	Number of factory in register A.	Locality where situated.	Name of factory.	Number of persons employed on dates of inspection. Adults. Men.	Adults. Women.	Children. Males.	Children. Females.	Date of inspection.	Machinery whether fenced or not.	Ventilation and sanitation.
Bellary ..	1	Bellary..	Bellary Spinning and Weaving Mill.	214	52	..	..	20th Aug. 1886.	Yes ..	Good.

No. 386.

Endorsement on the above.

Submitted to the Chief Secretary to Government, Madras.

2. None of the cotton presses of Adóni and Bellary towns which were struck off the register in 1884 and 1885 have again become liable to inspection.

3. Due care shall be taken that inspection is duly performed in the current year. I joined the district in December 1886.

(Signed) H. M. WINTERBOTHAM,
Ag. District Magistrate.

11*th April* 1887.

From J. LEE-WARNER, Esq., District Magistrate, Tinnevelly, to the Chief Secretary to Government, dated Tinnevelly, 20th April 1887, No. 358.

In reference to G.O., dated 5th May 1883, No. 625, Judicial, I have the honor to submit my annual report on the working of the Factory Act (XV of 1881) during the calendar year ending 31st December 1886, together with copies of reports from the Joint Magistrate, Head Assistant Magistrate, and General Charge Deputy Magistrate, Tinnevelly.

1. Tuticorin Cotton Press Company (Limited).
2. Cotton Press of Darley, Butler and Co., Tuticorin.
3. Cotton-spinning Factory at Pápanásam.
4. Cotton Press of A. and F. Harvey and Co., Virudupati.

2. There are in all four registered factories in this district, as detailed in the margin, the first two lying in the Joint Magistrate's division, the third in the Head Assistant Magistrate's, and the last named in the General Charge Deputy Magistrate's.

3. These factories have been visited by the respective inspectors during the year under report as shown in the following table :—

Names of factories.	Date of inspection.	No. of times examined.
1. Tuticorin Cotton Press Company (Limited) ..	25th June, 28th October, and 20th December.	3
2. Cotton Press of Darley, Butler and Co. ..	Do. do. ..	3
3. Cotton-spinning Factory, Pápanásam ..	4th June, 3rd September, and 21st December.	3
4. Cotton Press of A. and F. Harvey and Co., Virudupati.	Do. do. ..	3

4. Besides the above registered factories, there are others in the Joint and General Charge Deputy Magistrates' divisions which do not fall within the scope of the Act, as the number of hands employed in each is below 100. However, they also are being visited and watched by the inspectors, to see whether they come within the definition of a "factory."

5. The subjoined statement shows the number of persons employed on the date of each inspection, and the state of the factories with reference to sanitation and ventilation :—

Names of factories.	Date of inspection.	No. of persons employed. Adults. Men.	Adults. Women.	Juveniles. Male.	Juveniles. Female.	Machinery whether fenced or not.	Ventilation and sanitation.
1. Tuticorin Cotton Press Company (Limited).	25th June 1886 ..	..	..	..	..	Properly fenced.	Clean and properly ventilated.
	28th Oct. ,, ..	..	..	..	..		
	20th Dec. ,, ..	..	..	..	..		
2. Cotton Press of Darley, Butler and Company, Tuticorin.	Do. ..	..	..	..	..	Properly fenced except in one place which is slightly dangerous.	Do.
3. Cotton-spinning Factory, Pápanasam.	4th June 1886 ..	247	77	..	..	Securely fenced.	Well ventilated.
	3rd Sep. ,, ..	236	58	..	..		
	21st Dec. ,, ..	240	70	..	..		
4. Cotton Press of A. and F. Harvey and Co., Virudupati.	Do. ..	..	..	..	..	Enclosed by wooden materials.	Good.

6. The number of hands employed in the first two factories at each inspection was unfortunately not recorded by the Joint Magistrate. He has been directed to supply the omission in future reports. He states that the machinery of Messrs.

Darley, Butler and Co. is properly fenced, except in one place which is still slightly dangerous, though something has been done since last report to guard against accidents. He has been directed to insist on the remedying of this. The General Charge Deputy Magistrate, in whose division the cotton factory of A. and F. Harvey and Co. lies, joined the division only in July last after work in the factory had ceased. He has therefore only been able to report that the buildings are clean and in good order, as he did not see the hands at work.

7. No children under 12 years of age were employed in any of the factories during the year under report.

8. Two accidents occurred in the spinning mill factory at Pápanásam—one fatal and the other slight—the particulars of which are given in the 7th paragraph of the Head Assistant Magistrate's report. They were duly reported at the time to the Head Assistant Magistrate, as required by the rules. The other factories were free from accidents.

9. There were no prosecutions under the Act during the year under report.

Enclosures.

From W. M. THORBURN, Esq., Joint Magistrate, to the District Magistrate of Tinnevelly, dated 3rd March 1887, No. 44.

I have the honor to submit my annual report on the working of the Factory Act for the calendar year 1886.

2. The two factories noted below were under supervision and they were inspected by me on the dates entered opposite each :—

(*a*) Tuticorin Cotton Press Company (Limited)—June 25th, October 28th, and Dec. 20th.
(*b*) Darley, Butler and Company's—June 25th, October 28th, and December 20th.

3. No children under 12 were employed in the factories, nor was there any accident during the year.

4. The premises of both factories are kept clean and the buildings properly ventilated. The machinery is properly fenced, except one place in Darley, Butler and Co.'s, which is still slightly dangerous, though something has been done since last report to guard against accidents.

5. Nothing else calling for remarks was observed.

6. The other cotton presses at Tuticorin (1) of Messrs. Volkarts Brothers, (2) of Messrs. Gaddam, Bythal and Co., and (3) of Mr. Henry Kemp Welch, were visited by me. As the number of persons employed in each was below 100, no steps were taken to bring them under the Act.

From E. C. RAWSON, Esq., Head Assistant Magistrate, to the District Magistrate, Tinnevelly, dated 20th January 1887, No. 8.

I have the honor to submit my report on the working of the Factory Act (No. XV of 1881) in my division for the year 1886.

2. No new factory was started in this division during the year. The only factory existing is the cotton-spinning mill belonging to the Tinnevelly Mills Company at Pápanásam, reported on in my last report.

3. I have inspected this factory on three occasions during the year, viz., on the 4th June, the 3rd September, and the 21st December.

The number of persons working in the mill on the dates of inspections were as follows :—

—	Adults.		Children.		Total.
	Male.	Female.	Male.	Female.	
4th June	247	77	..	..	324
3rd September	236	58	..	..	294
21st December	240	70	..	..	310

4. No children under 12 are employed at this factory now.

5. The rules, schedules, &c., are conspicuously posted in the factory as required by the rules.

6. The machinery is securely fenced, and the building is well ventilated.

7. Two accidents occurred during the year; one fatal and the other a slight one. The latter accident occurred on the 17th February 1886, when a lad aged 14, named Govindan, put his arm between two tin rollers, while they were in motion; the result being that the skin of his right arm was partially scraped off.

The fatal accident occurred on the 9th November, when a workman named Agasthian, aged 18, was caught by a belt while unloosing it from a shaft, and carried up to the ceiling, whence he fell on the floor. His left arm was broken and he sustained internal injuries, which resulted in his death in the Ambásamudram hospital on the 12th November. The accident was entirely caused by the fault of the deceased, who had no business to touch the strap at all.

8. These accidents were reported to me at once, as required by the rules.

9. No prosecutions were instituted during the year.

10. The condition of the mill is in every way satisfactory.

List of Accidents that occurred in the Factories in the Head Assistant Magistrate's Division, Tinnevelly, during 1886.

Name.	Caste.	Sex.	Age.	Nature of injury.
1. Govindan	Hindu.	Male.	14	Skin partially scraped off right arm.
2. Agasthian	Do.	Do.	18	Left arm broken and internal injuries which proved fatal.

From R. ANANTARAMA AIYAR, General Charge Deputy Magistrate, to the District Magistrate, Tinnevelly, dated 7th February 1887, No. 36.

I have the honor to submit my report on the working of the factories in my division during the year 1886, together with the usual statements.

2. I joined this division in July last. On all the three occasions I visited Virudupati, there was actually no work carried on in the factories, the cotton season having been almost over, and I could not therefore inspect any of them while work was going on, but merely saw the buildings, &c., which were found to be in good condition. No accidents have been reported to have occurred during the year under report.

Accidents in the year 1886 in Factories in the General Charge Deputy Magistrate's Division, Tinnevelly District.

Name of factory.	Date of occurrence.	Name of person injured.	Nature of injury.
1. Southern India Press Company, Limited, Virudupati	None reported during the year.		
2. A. and F. Harvey at Virudupati			
3. A. and F. Harvey at Sátur			
4. Cotton-pressing Company (Limited), Messrs. Dymes and Co., Factory, Virudupati.			

List of Factories in the General Charge Deputy Magistrate's Division, Tinnevelly District, for the year 1886.

Name of district.	Name of factory.	Number of hands employed.	Number of accidents.	Machinery whether fenced or not.	Ventilation and sanitation.
Tinnevelly District.	1. Southern India Press Company, Limited, Virudupati.	Twenty-four, being average number employed throughout the year.	No accidents reported during the year.	Fenced by walls ..	Good.
	2. A. and F. Harvey at Virudupati.	Thirty-seven, being average number employed throughout the year.		Enclosed by wooden materials.	Do.
	3. A. and F. Harvey at Sátur.	Seventeen, being average number employed throughout the year.		Fenced	Do.
	4. Cotton-pressing Company (Limited), Messrs. Dymes and Co., Factory, Virudupati.	Ten, being average number employed throughout the year.		Fenced by walls ..	Do.

Order—dated 21st May 1887, No. 1090, Judicial.

The foregoing reports on the working of the Factories Act (XV of 1881) during the year 1886 show that the number of factories falling under the provisions of the Act remained unchanged during the year; the total number was 24, as in the preceding year, half being situated in the districts and half in the city of Madras, as shown in the appendix.

2. On the whole, the reports now submitted are satisfactory and call for remark in two cases only.

3. In Tinnevelly, it is observed that the Joint Magistrate omitted on each of his inspections to note the number of hands employed. Such an omission, in regard to one of the most obvious points which should engage an inspecting officer's attention, is inexcusable. The defective fencing of machinery at Messrs. Darley, Butler and Co.'s factory should not be allowed to continue. No information is required by Government regarding factories not falling under the Act. The General Charge Deputy Collector will, therefore, be instructed not to include such factories in his returns in future, and his attention should be directed to the remarks made in paragraphs 4 and 6 of G.O., 31st May 1886, No. 1435. The retention in the register of the Cotton Press at Virudupati is irregular if, as shown in one of the enclosures to the Deputy Collector's report, the average number of hands employed was only 24.

4. In the South Arcot returns, it seems doubtful whether the sugar factory at Tiruvennanallúr is rightly retained on the register. The number of hands found at work on both the days of inspection by the Deputy Collector was considerably under the figure (100) which would bring the factory within the operation of the Act, but this may have been due to the buildings having been under repair, as stated in the report, during a considerable part of the year. The District Magistrate will state in his next report whether the factory falls under the definition in section 2 of the Act or not.

5. Fifty-eight accidents are reported to have occurred during the year, against 77 in the year previous. The number (7) that occurred in the factory at Aska is unusually large, and probably indicates some want of careful supervision. The attention of the Inspector will be specially directed to this point, and it should be referred to in his next report. It is observed with regret that two accidents proved fatal. In one of these at the Nellikuppam sugar factory, a man was killed by a fall from the top of a tower 25 feet high. It is stated that the accident was due to the man being drunk, and it appears unsatisfactory that a man in a state of intoxication should have been allowed to be at work. In the second case, which occurred at the Pápanásam mill in Tinnevelly, a lad, aged 18, was caught by a belt which he was attempting to unloose from a shaft, and was carried up to the ceiling, whence he fell to the

floor, breaking his left arm and sustaining such severe internal injuries that he died in hospital. The accident is, however, stated to have been entirely due to the deceased's own action in touching the belt, which he ought not to have done.

6. Inspections were generally good in all districts, and fulfilled, as a rule, the prescribed conditions, except in Bellary, where the omission of the Inspector to inspect the single factory on the register more than once during the year is not sufficiently explained. The mill in question is situated in the town of Bellary, and could, without difficulty, have been visited at least the three times prescribed in Rule 7 of the rules framed in G.O., dated 9th February 1882, No. 193. The Temporary Deputy Magistrate who submitted the annual report was in charge of the division in which the factory is situated for six months out of the year, and there is no excuse for his neglect to inspect the mill oftener. The District Magistrate will see that this duty is not neglected in future.

7. The submission of forms A and B by the District Magistrates of Tinnevelly and South Arcot together with the reports of the Inspectors is not required. It will be sufficient if with the list of accidents the statement referred to in paragraph 7 of G.O., 7th July 1885, No. 1760, is furnished.

8. The Deputy Commissioner of Police, Madras, notices with regret the discontinuance of "child" labor in the mills under his inspection, as depriving a large number of children of employment, which would have kept them out of the streets. The same result appears to have followed the introduction of the Act in all parts of the Presidency, and from every district, except Kistna, it is reported that no children under 12 years are now employed. Section 7 of the Act restricts the daily employment of children to *nine* hours and requires certain intervals being allotted for food and rest, and it is probable that these restrictions, which have not met with the approval of mill-owners, and which perhaps cannot be worked without inconvenience, have led to the general discontinuance of "child" labor since the introduction of the Act.

9. Column 4 of the statement showing the results of inspections should only be filled up in cases where children between 7 and 12 years of age are employed; all others should be classed as "adults." The word "children" should be employed, in accordance with the phraseology of the Act, and not the term "juveniles." The use of this in the returns now submitted is inaccurate.

(True Extract.)

H. E. STOKES,
Ag. Chief Secretary.

To all District Magistrates.
„ the Public Works Department.
„ the Consulting Engineer for Railways.
„ the Commissioner of Police.

[Appendix.

APPENDIX.

Name of District.		Name of Factory.	Number of hands employed.	Number of accidents.	Machinery, whether fenced or not.	Ventilation and sanitation.
Ganjam ..	Aska ..	Minchin Brothers' Sugar Factory.	Adults 368 Juveniles 48	7	Securely fenced.	Clean and well ventilated.
Kistna ..	Bezváda ..	Government Workshops ..	Adults 185 Juveniles 4	..	Safe ..	Good.
Godávari ..	Dowlaishweram.	Do. do.	Adults 138 Juveniles 66	..	Fenced ..	Do.
Madras ..	Perambúr ..	Railway Workshops	Adults 2,727	5	Sufficiently fenced.	Do.
Tanjore ..	Negapatam ..	South Indian Railway Locomotive and Carriage Shops.	,, 1,573	9	Do. ..	Do.
Vizagapatam.	Chittivalsa ..	Messrs. Arbuthnot and Co.'s Gunny Factory.	Adults 406 Juveniles 269	2	Fenced ..	Do.
Madras ..	..	Buckingham Mill Company ..	Adults 656 Juveniles 8	4	Do. ..	Do.
		Carnatic Mill Company ..	Adults 748 Juveniles 24	8	Do. ..	Do.
		Gun Carriage Factory	Adults 429	7	Do. ..	Do.
		Gun Powder Factory	,, 104	4	Do. ..	Do.
		South Indian Spinning and Weaving Mill.	,, 480	2	Do. ..	Do.
		Harbour Works	,, 809	..	Do. ..	Do.
		Public Works Workshops ..	,, 235	2	Do. ..	Do.
		The Arsenal	,, 533	..	Do. ..	Do.
		Madras United Spinning and Weaving Mill.	,, 499	4	Do. ..	Do.
		Massey's Iron Foundry ..	,, 232	..	Do. ..	Do.
		Cement Works	,, 283	..	Do. ..	Do.
South Arcot.	Cuddalore. ..	Messrs. Parry and Co.'s Sugar Manufactory and Spirit Distillery at Nellikuppam.	,, 419	2	Do. ..	Do.
	Vriddhácha-lam.	Do. at Tiruvennanallúr.	,, 32	..	Do. ..	Sanitation not satisfactory, ventilation good except in witzel room.
Bellary ..	Bellary ..	Messrs. Sabapathy and Co.'s Spinning and Weaving Mill.	,, 266	..	Do. ..	Good.
Tinnevelly.	Tuticorin ..	Tuticorin Cotton Press Company.	..	..	Properly fenced.	Clean and properly ventilated.
	Do. ..	Cotton Press of Darley, Butler and Company.	..	..	Properly fenced except in one place.	Do.
	Pápanásam ..	Cotton Spinning Factory ..	,, 309	2	Securely fenced.	Well ventilated.
	Virudupati ..	Cotton Press of A and F. Harvey and Company.	..	..	Enclosed by wooden materials.	Good.

Exd. A. Raitt.

B. P. 1612 dy 15 June/87

Commd. to Supdg. Engineers for information.

Sd/- J. H. W

Govt. of {1887} Madras.

JUDICIAL.

Issued

Recd. *Encl.*

G.O., 21st May 1887, No. 1090.

B. P. 1612 dy 15-6-87

MAY.

Factories Act XV of 1881.

Reviewing the reports on the working of the —during the year 1886.

L. E.

H. J. Bd

GOVERNMENT OF MADRAS.

JUDICIAL DEPARTMENT.

Read—the following papers :—

From the District Magistrate of Madura, dated 13th January 1886, No. 4.
From the Acting District Magistrate of Chingleput, dated 22nd Jan. 1886, No. 48.
From the Acting District Magistrate, Trichinopoly, dated 22nd Feb. 1886, No. 629.
From the District Magistrate of Coimbatore, dated 24th February 1886, No. 98-A.
From the District Magistrate of Salem, dated 17th March 1886, No. 446.
From the District Magistrate of Kurnool, dated 5th May 1886, No. 111.

Abstract.—Reporting that there are no factories in these districts that fall within the scope of the Act.

From M.R.Ry. V. JAGANNADHA ROW, General Deputy Magistrate and Inspector of Factories, Vizianagrum, to the District Magistrate, Vizagapatam, dated 11th January 1886, No. 7.

I have the honor to submit my report on the working of the Chittivalasa Factory for the year 1885.

2. This is a gunny factory belonging to Messrs. Arbuthnot and Co., and I was appointed Inspector of it on the 29th August 1885.* Since that date I have inspected the factory twice without giving previous notice, viz., on the 8th September between 2 and 3 P.M. and on 24th December between 1-30 and 2-30 P.M. On both occasions Mr. Innes, the manager of the factory, was on the premises and rendered me all necessary assistance.

* *Vide* "*Fort St. George Gazette*," dated 4th September 1885, page 577.

3. In this factory jute is cleaned, twined and woven, and is 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 Sundays, as also on nine English and nine-and-a-half Native holidays, during the year. The working hours were from 5-30 A.M. to 6-30 P.M., with an interval of one-and-a-half hours—from 12 to 1-30 P.M.—in the months of November to the end of March and of two hours—from 12 to 2 P.M.—in the months of April to October, except on Saturdays, when the engine stopped at 4-30 P.M. with an interval of only an hour at noon.

5. The average number of persons employed daily during the year was 722, and the number of persons at work on the dates of inspection was as follows :—

8th September 1885 ..	Men (12—16)	270
	Do. (above 16)	336
	Women (12—16)	8
	Do. (above 16)	67
		681
24th December 1885 ..	Men (12—16)	246
	Do. (above 16)	342
	Women (12—16)	9
	Do. (above 16)	73
		670

No children under twelve years were employed in the factory.

6. The factory is usually whitewashed and cleaned once a year. This was last done in December 1884, and the work this year was begun on the 2nd December 1885 and will, it is stated, be completed next month. The latrines were, as usual, scoured by hot water that escaped from the engine, and the arrangement seemed to me to answer the purpose very well.

7. The rooms of the building are properly ventilated, and in no department of the factory do the workmen experience any inconvenience. In the preparing room, however, there is much dust, but the workmen are accustomed to work in it with a cloth over their mouths.

8. The temperature in the working room at the time of my inspections was as follows :—

On the 8th September 1885	90°
On the 24th December 1885	83°

9. Wherever it is necessary or possible, the machinery has been fenced and protected, either by iron rails or by iron and wooden shields, so as to effectually prevent all chances of accidents. As directed in G.O., dated 7th July 1885, No. 1760, Judicial Department, paragraph 2, the question of fencing cylinders has been carefully considered. The most dangerous parts of the calender rollers have been protected with small guide rollers for the purpose of conducting the cloth to the in-running side of the upper calendering rollers. These can now be worked safely and with ease. There are, however, occasions, it is stated, when it is necessary to remove the guide rollers to allow special work to be done, but on such occasions the assistant manager is invariably in attendance. Some of the workmen are quite familiar with the working of these cylinders, and it is only these persons that are allowed to handle them. The rollers move slowly, and the operation therefore is a mild one. It is resorted to in softening and smoothing the cloth before being made into bags. What has been already done to protect this part of the machinery is, I think, sufficient to minimise all chances of danger, and, if work is to go on, the rollers must move and cloth must be introduced between them so that it may be crushed and smoothed. The operation after all is not a very difficult one, and any man of ordinary care and intelligence can handle the cylinders with ease. In these circumstances, I am of opinion that nothing further need be done to protect them; neither does this seem possible.

10. There were two accidents during the year under report :

(*a*) On the 15th June, at 5 P.M., one Kopperla Adenna, while going out of the doors of the preparing room, slipped, and in holding out his right arm to save himself, got it badly cut with the door-glass.

(*b*) On the 17th idem one Chilla Kristnamma got two of his fingers bruised in assisting one of the calender men in adjusting a piece of cloth passing through the calender.

11. Both these men were sent to hospital and soon recovered. Neither of these accidents was reported to this office as required by rule XXII. The omission was pointed out to the manager. There were no prosecutions during the year.

12. Certificates of age were granted to all young persons employed in the factory, in the form C appended to the rules, by the Civil Apothecary at Bimlipatam (who inspects the factory once a week) and a file of them is maintained as required by rule XIV. It is understood that the Apothecary in question has not been formally appointed Certifying Surgeon as required by section 5 of the Factories Act, 1881. It is requested that this omission may now be supplied.

13. Registers D and E are not kept up as no children under twelve years of age were employed in the factory.

14. A notice of daily working hours has been maintained in form F as required by rule XVI, as also a list of holidays, both of which were hung up in a conspicuous part of the office-room in the factory.

15. Printed copies of the rules and forms, with Telugu translations thereof, have also been kept hanging on the outer walls of the office-room.

16. I have inspected most of the young persons employed in the factory, and they looked healthy and cheerful.

17. Registers A and B required to be kept in my office under rule 2 have been duly maintained.

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

Enclosure.

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.		Juveniles.			
		Men.	Women.	Males.	Females.		
Vizagapatam ..	Gunny Factory at Chittivalasa.	342	73	246	9	Fenced or otherwise protected.	Good.

No. 74.

Endorsement on the above.

Submitted to Government in the Judicial Department.

2. The Gunny Factory at Chittivalasa was inspected only twice during the year under report. Rule VII of the rules published in G.O., 9th February 1882, No. 193, Judicial, requires an Inspector to inspect a factory at least three times in each calendar year, but the matter was overlooked pending the orders of Government on Mr. Turner's suggestion that the General-duty Deputy Collector should be appointed Inspector of the Chittivalasa Factory, orders on which were passed only four months before the end of the year.

3. I agree with the Inspector's suggestion made in paragraph 12 of his letter as to the Apothecary at Bimlipatam being formally appointed Certifying Surgeon and submit a draft notification for his appointment, which, if approved, may be ordered to be published in the *Fort St. George Gazette*.

Gajapatinagar, 22*nd January* 1886. (Signed) W. A. Willock, *Ag. District Magistrate of Vizagapatam.*

Draft Notification.

It is hereby notified that the "Certifying Surgeon" under section 5 of the Factories Act (XV of 1881) is for the Chittivalasa Gunny Factory in the District of Vizagapatam the Apothecary in charge of the Municipal Dispensary, Bimlipatam.

From M.R.Ry. A. SURYANARAYANA, General Deputy Magistrate of Ganjam and Inspector of the Sugar Factory at Aska, to the District Magistrate of Ganjam, dated Russellkonda, 5th January 1886, No. 3.

I have the honor to submit my report on the inspection of the sugar factory at Aska belonging to Messrs. Minchin Brothers and Co. for the year 1885.

2. During the year under review I inspected this factory four times, viz., 26th January, 30th June, 14th September, and 26th November 1885.

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

4. The machines were carefully supervised by the factory engineer.

5. All the requisite notices were hung up conspicuously.

6. Three accidents were reported during the year under review, the details of which are given below :—

Name.	Caste.	Sex.	Age.	Nature of injury.
			YEARS.	
Phakeemoony	Uriya.	Male.	36	Three fingers of the right hand were damaged while he was cleaning diffusion engine.
Veordhobo	Do.	Do.	15	Left leg scalded with hot sugar liquor from the foot to a little above the knee.
Issara Nayak	Bavuri.	Do.	28	Toes of left foot bruised by cane truck passing over them.

7. As directed in paragraph 7 of G.O., dated 7th July 1885, No. 1760, Judicial, I beg to subjoin a statement showing the number of persons employed on the date of each inspection and the state of the factory with reference to sanitation and ventilation :—

Name of District.	Name of Factory.	Date of Inspection.	Number of persons employed.				Machinery whether fenced or not.	Ventilation and Sanitation.
			Adults.		Juveniles.			
			Men.	Women.	Males.	Females.		
		1885.						
Ganjam ..	Sugar Factory at Aska.	26th January ..	386	..	120	..	Securely fenced.	Clean and well ventilated.
		30th June ..	272	..	98	..	Do.	Do.
		14th September.	165	..	79	..	Do.	Do.
		26th November.	245	..	89	..	Do.	Do.

8. The decrease in the number of work-people was attributed to the small quantity of sugar manufacture owing to the termination of sugar-cane season from May 1885.

No. 230.

Endorsement on the above.

Submitted to Government in the Judicial Department.

Chatrapur,
24*th January* 1886.

(Signed) H. L. HOWELL,
Dy. Collector, for *District Magistrate.*

Report on Railway Factories for the year 1885.

The two railway workshops in the Presidency were each inspected three times during the year.

2. No children are employed in these factories.

3. The machinery continues to be securely fenced.

4. A detailed statement of accidents reported during the year, together with a list of factories in the prescribed form, is herewith submitted.

5. Of the twenty-one accidents at the Perambur Works and five at Negapatam, none were serious. Nearly all occurred to men working with tools, or were caused by the fall of objects which were being moved. Only one was caused by machinery, in which case a man had his hand caught in the cog-wheels of a screw-cutting machine.

(Signed) W. H. COAKER, Major, R.E.,
Inspector of Railway Factories.

Enclosures.

Detailed Statement of Factory Accidents on the Madras and South Indian Railways for 1885.

Railway.	Factory.	Date.	Remarks.
Madras Railway ..	Perambur Works ..	25th February ..	A striker was injured by the blow of a hammer which he was using.
Do. ..	Do. ..	13th March ..	A cooly was injured by the fall of a carriage body which was being lowered.
Do. ..	Do. ..	25th ,, ..	A sawyer, while cutting a piece of wood, was injured by his fingers getting caught in the saw.
Do. ..	Do. ..	7th April ..	A carpenter, while working at a wagon, was injured by the fall of its brake lever.
Do. ..	Do. ..	27th ,, ..	A cooly was injured by his hand getting caught between a crow-bar, which he was using, and the ground.
Do. ..	Do. ..	9th May ..	A blacksmith was injured by a piece of hot iron striking him on the eye.
Do. ..	Do. ..	14th ,, ..	A striker was injured by a splinter of iron penetrating his knee.
Do. ..	Do. ..	14th ,, ..	A rivetter was injured by a small splinter of iron getting into his eye.
Do. ..	Do. ..	1st June ..	A fitter was injured by a piece of metal falling on his toe.
Do. ..	Do. ..	8th ,, ..	A wheel turner was injured by a piece of timber falling on his leg.
Do. ..	Do. ..	8th ,, ..	A cooly was injured by his foot getting caught under a piece of timber which he was shifting.
Do. ..	Do. ..	10th ,, ..	A blacksmith was injured by a piece of iron striking him in the eye.
Do. ..	Do. ..	13th ,, ..	A fitter was injured by the fall of an engine splasher on his foot.
Do. ..	Do. ..	30th ,, ..	A cooly was injured by a piece of fire-wood falling on his finger.
Do. ..	Do. ..	8th July ..	A fitter was injured by the fall of an engine panel plate on his foot.
Do. ..	Do. ..	13th ,, ..	A striker was slightly burnt by the flame from his forge being driven against his body by a strong wind.
Do. ..	Do. ..	21st ,, ..	A striker, whilst assisting to lift an engine, was injured.
Do. ..	Do. ..	8th August ..	A painter was injured by falling from a scaffolding which gave way.
Do. ..	Do. ..	15th ,, ..	A striker was injured by a chip of steel striking him in the eye.
Do. ..	Do. ..	18th ,, ..	A cooly was injured by the fall of a wooden sleeper on his toe.
Do. ..	Do. ..	6th November.	A machine-man was injured by an adze falling on his leg.
South Indian Railway.	Negapatam Works ..	3rd January ..	A carpenter, while sharpening his chisel on the grinding stone, was injured.
Do. ..	Do. ..	2nd February ..	A cooly was injured by a ratchet brace falling upon him.
Do. ..	Do. ..	6th ,, ..	A fitter was injured by his hand slipping between two cog-wheels of a screw-cutting machine.
Do. ..	Do. ..	12th June ..	A cooly was injured by his hand getting caught in the chain of a crane at which he was working.
Do. ..	Do. ..	19th November.	A moulder was injured by metal from a casting splashing his feet.

List of Factories.

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.		Juveniles.			
		Men.	Women.	Males.	Females.		
Madras	Perambur Railway Workshops.	2,252	..	..	..	Sufficiently fenced.	Good.
Tanjore	South Indian Railway Locomotive and Carriage Shops.	1,571	..	..	..	Do.	Do.

No. 27.

Endorsement on the above.

Submitted to Government in the Judicial Department with reference to their Proceedings, No. 329, dated 9th February 1883.

Madras, 26*th January* 1886. (Signed) W. H. COAKER, Major, R.E., for *Consulting Engineer for Railways.*

From M. D. BELL, Esq., Acting Head Assistant Magistrate in charge of Bellary, to the Chief Secretary to Government, dated Bellary, 10th February 1886, No. 175.

I have the honor to submit herewith the Head Assistant Magistrate's report, No. 31, dated 13th January 1886, on the working of the Factories Act (XV of 1881) for the calendar year 1885. I submit also reports, No. 6, dated 8th January 1886, and No. 27, dated 22nd January 1886, received from the Temporary Deputy Magistrate and the Divisional Magistrate of Adóni respectively, who became Inspectors of Factories within their respective divisions under the Notification of Government, No. 445, published at page 724 of the *Fort St. George Gazette* dated 30th October 1885.

2. The three cotton presses at Adóni were not inspected during the year either by the Head Assistant Magistrate or by the Deputy Magistrate of the division. None of them came under the operation of the Act, as the highest number of operatives employed in each of them on any day is less than 100. The Divisional Magistrate has been directed to remove them from his register and he has been informed that he should occasionally visit them in order that they may be brought on his register again should they fulfil the necessary conditions.

Enclosures.

From M. D. BELL, Esq., Acting Head Assistant Magistrate and Inspector of Factories, Bellary, to the District Magistrate, Bellary, dated 13th January 1886, No. 31.

With reference to your foot-note, dated 27th July last, No. 2661, to G.O., No. 1760, dated 7th July 1885, I have the honor to submit the annual report due on the working of the Factories Act (XV of 1881) for the calendar year 1885.

2. During the year under report there were four factories on the register, one of them being situated in Bellary and the others at Adóni.

3. The factories at Adóni were not visited by me as I was informed, when at Bellary, that they were not working, and press of other business in my own division did not permit me to go to that place during the working seasons of the year.

4. The only factory at Bellary falling within the scope of the Act is the Spinning and Weaving Mill. I inspected this twice on the dates specified in the annexed statement. The number of people employed in it, including women and boys, was found to be over 200 on both these occasions. The boys are all certified to be over twelve years of age.

5. A file of certificates granted by the Civil Surgeon has been maintained by the manager. The machinery is sufficiently and securely fenced. The fly-wheel of the engine is in a room by itself, and no further precaution with regard to it is required.

6. The registers in forms D and E are not kept as no children are employed.

7. Notices of the working hours and holidays are hung up in a conspicuous part of the factory. The laborers employed work from 6 A.M. to 6 P.M. with an interval of about half an hour allowed for food and rest. Every alternate Sunday is allowed as a holiday.

8. Ventilation and sanitary arrangements are good.

9. Two accidents of a somewhat severe character have been reported by the Secretary. They occurred on the 24th and 27th June last respectively.

10. In one case the injured person got two fingers of his right hand cut off by being caught in a machine (roving frame) while cleaning it.

11. In the other a boy, aged fourteen years, received injuries to his feet and legs. The boy was sleeping under a machine (throstle frame), and the accident is reported to have been caused in consequence of his legs getting caught in the machine while in motion. The injured persons

were at once removed to the Civil Dispensary, which is situated not far from the premises, and they were treated there successfully.

12. I may also mention that, as per notification published at page 724 of the *Fort St. George Gazette* dated 30th October last, all Sub-Divisional Magistrates are appointed to be Inspectors of Factories situated within their local jurisdiction, and that my connection with the supervision of the above-mentioned factories ceased from that date. All the papers and correspondence relating to the same have been forwarded by me to the Divisional Magistrates of Adóni and Bellary, within whose jurisdiction they are situated.

Statement showing the number of persons employed in, and the state of, the Factories in the District of Bellary with reference to Sanitation and Ventilation.

Name of the District.	Number of Factory in Register A.	Locality where situated.	Name of Factory.	Number of Persons employed on Dates of Inspection.				Date of Inspection.	Machinery whether fenced or not.	Ventilation and Sanitation.
				Adults.		Juveniles.				
				Men.	Women.	Males.	Females.			
								1885.		
Bellary.	1	Bellary.	Bellary Spinning and Weaving Mill.	101	39	75	..	25th July	Yes.	Good.
				103	42	100	..	25th Sept.	Yes.	Good.

From M.R Ry. V. DORASWAMY IYER, Temporary Deputy Magistrate of Bellary and Inspector of Factories, to the District Magistrate of Bellary, dated 8th January 1886, No. 6.

I have the honor to submit my report on the working of the Factories Act (XV of 1881) during the calendar year 1885.

2. The only one that falls within the scope of the Act is the Spinning Mill at Bellary of Messrs. A. Sabhapathy Mudaliar and Co. As I was appointed Inspector of Factories only in the latter part of 1885, I inspected the mill on the 27th ultimo. The mill is worked from 6 A.M. to 6 P.M. with a recess of half an hour at noon for food and rest. I mustered the whole establishment employed, who numbered 237 as detailed in the margin. They were all strong, and there was none among the juveniles under seven years of age. Most of them seemed twelve years old or more. The prescribed age certificates are properly filed and were examined, the age being compared with the appearance presented of the persons named. Three girls and a boy, who appeared doubtful of the age given of them, were ordered to be sent over to the Surgeon for obtaining the requisite certificates. These were recent admissions made on the report of their village head that they were twelve years old.

Adults ..	Males	115
	Females	35
Juveniles. .	Males	83
	Females	4

3 No registers in forms D and E are maintained, there being no children employed. Notice F in Vernacular and in English is suspended at the entrance of the spinning rooms. Besides the recess of half an hour allowed for food and rest, the juveniles are said to be permitted an extra indulgence of going out four times in the course of working hours besides, spending each time ten minutes in play and recreation.

4. Only two out of four Sundays in the month are allowed as holidays for the working men. The chief fly-wheel on which the whole machinery works being located in a detached room adjoining the fire-engine open shed, no danger need be apprehended on the score of insecure fencing.

5. The structure of the building is so made as to be amply ventilated. The sanitary arrangements are what they should be. The latrines inside the building are never used. The open place outside and the Nalla bed adjoining are used for calls of nature. No insanitary condition on that account was perceivable in the immediate vicinity of the building outside.

Statement showing the Number of Persons employed in, and the state of, the Factories in the District of Bellary with reference to Sanitation and Ventilation.

Name of the district.	Number of factory in Register A.	Locality where situated.	Name of Factory.	Number of Persons employed on Dates of Inspection.				Date of Inspection.	Machinery whether fenced or not.	Ventilation and sanitation.
				Adults.		Juveniles.				
				Women.	Men.	Males.	Females.			
Bellary .	1	Bellary.	Bellary Spinning and Weaving Mill.	115	35	83	4	27th December 1885.	Yes.	Good.

From M.R.Ry. D. ANANTHAYA GARU, Sub-Divisional Magistrate of Adóni and Inspector of Factories, to the District Magistrate, Bellary, dated Adóni, 22nd January 1886, No. 27.

With reference to your Proceedings of the 14th instant, No. 61, I have the honor to report as follows.

2. The Order of Government appointing all Sub-Divisional Magistrates to be Inspectors of Factories within their respective local jurisdiction was published in the *Fort St. George Gazette* of the 30th October 1885 and was received here on the 1st November 1885. Mr. Russell, the Head Assistant Magistrate and the Inspector of Factories, having issued notices to the Agents in charge of the several presses at Adóni, excluding them all from the operation of the Factory Act, I did not think it right to inspect them. The Order of Government, dated 7th July 1885, No. 1760, Judicial Department, has been only just communicated to me after I applied for it, and I have been informed only just now, by your proceedings under reply, that the several presses at Adóni have not been excluded by Government from the operation of the Factory Act; so I did not inspect any of them in 1885 since the receipt of the Order of Government on the 1st November 1885.

3. As the season was very unfavorable, and as very little cotton was brought to the presses, the work done during the year is very little compared with the work done during the past years.

4. There was no change of any kind made either in the machinery and premises or in the arrangements of working days and holidays since the several presses were last inspected by the Head Assistant Magistrate and Inspector of Factories in June 1883, when I was also present and when it was the working season.

5. Messrs. Framjee and Co.'s (late Brunton and Co.'s) press worked only for 27 days in the whole year, viz., 4 days in April, 9 in May, 8 in June, 2 in July, 3 in August, and 1 in September 1885. The highest total number of people employed on any one day was 85 exclusive of establishment.

6. Messrs. Sabhapathy and Co.'s press worked only for 10 days in the year, viz., 3 days in April, 4 in May, and 3 in June 1885. The highest total number of people employed on any one day in the year was only 66 exclusive of establishment.

7. Messrs. Dymes and Co.'s press worked only for 60 days in the year, viz., 1 day in February, 5 in April, 12 in May, 15 in June, 10 in July, 9 in August, 3 in September, 3 in October, 1 in November, and 1 in December 1885. The highest total number of men employed, including the establishment, is 106 on any one day.

8. No accidents of any kind were reported to have occurred during the year in any of the presses. There were no prosecutions during the year.

9. The machinery in the several presses is in a room. So it is not accessible to others as, the rooms are walled with good ventilation. Ventilation is good and premises are clean.

10. Juveniles under the prescribed age are not employed.

11. It will be observed that the highest total number of people employed in any one of the presses on any one day was not one hundred or more exclusive of the establishment.

12. It is still contended that the highest number of men employed in any one of the presses of cleaning or pressing the cotton being less than 100, the several presses at Adóni cannot be subjected to the operation of the Factories Act, as the Head Assistant Magistrate has already excluded them from the operation of the Act.

13. The several presses at Adóni will be hereafter duly inspected from time to time during the working season and a report submitted at the end of each year, giving the result of the inspection.

From F. E. ROBINSON, Esq., Acting Head Assistant Magistrate, Kistna, and Inspector of Factories, to the District Magistrate of Kistna, dated Bezváda, 16th January 1886, No. 26.

I have the honor to submit the report under the Factories Act (XV of 1881) for the calendar year 1885.

2. There is only one factory in the division, viz., the Department of Public Works Workshop, Bezváda.

3. This factory was inspected by me thrice in the year under report, viz.:— 23rd March 1885, 31st July 1885, and 20th November 1885.

4. The rule as to posting up in a conspicuous place notice of working hours and holidays, as also rules and forms in English and Telugu (*vide* Rule XXIII) was properly observed.

5. The registers under forms D and E were kept, and the certificates given in form C by the certifying Surgeon were pasted in a book.

6. A notice giving particulars as to the intervals for food and rest to children was also posted in front of the factory.

7. The hours fixed were from 6 A.M. to 6 P.M., with 2 hours interval, that is, 10 hours in all.

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

9. No accidents were reported in the year.

10. Ventilation good.

A brick latrine was begun, but has been pulled down for a corrugated iron which is shortly expected from Bombay.

11. I enclose a statement showing the number of persons employed at the time of inspection, and the state of the factory with reference to sanitation and ventilation.

Enclosure.

Name of district.	Name of factory.	Number of persons employed at the time of inspection.				Machinery, whether fenced or not.	Ventilation and sanitation.	Date of inspection.	Remarks.
		Adults.		Juveniles.					
		Males.	Females.	Males.	Females.				
Kistna..	Government Workshop, Bezváda.	208	..	11	..	..	..	23rd Mar. 1885.	Inspection made before receipt of G.O., No. 1760, dated 7th July 1885.
	Do. ..	220	..	9	..	Safe ..	Good ..	31st July 1885.	....
	Do. ..	210	..	8	..	Do. ..	Do. ..	20th Nov. 1885.	Latrine not yet completed.

No. 255.

Endorsement on the above.

Submitted to Government in the Judicial Department, with reference to G.O., No. 329, of the 9th February 1883.

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

Masulipatam,
23*rd February* 1886.

(Signed) B. RAJA RAO,
for *Ag. District Magistrate.*

From C. VENKATA JAGGA RAO, Esq., Special Assistant Agent, in charge of the Joint Magistrate's Division, Godávari, to the Acting Magistrate of Godávari, dated Amalápuram, 28th January 1886, No. 14.

I have the honor to report on the working of the Factories Act (XV of 1881) during the year 1885.

2. The Government Workshop at Dowlaishweram is the only factory in the division coming within the scope of the Act. It was inspected by the Joint Magistrate only once during the year. There were 259 males and 4 females employed at the factory at the time of the inspection. All of them were adults. There were no children employed.

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

4. All dangerous machinery was properly fenced.

5. There were no accidents during the year.

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

7. No latrine accommodation has yet been provided. An estimate was prepared by the officer in charge and submitted for sanction.

8. The statement prescribed by Government in their Order, No. 1760, dated 7th July last, is enclosed.

Enclosure.

Statement showing the number of persons employed at the end of the year 1885 in the Government Workshop at Dowlaishweram.

Name of district.	Name of factory.	Number of persons employed at the end of the year.				Machinery whether fenced or not.	Ventilation and sanitation.	Remarks.
		Adults.		Juveniles.				
		Men.	Women.	Males.	Females.			
1	2	3	4	5	6	7	8	9
Godávari ..	Government Workshop, Dowlaishweram.	183	4	76	..	Fenced ..	Good.	..

No. 8.

Endorsement on the above.

Submitted to Government for information.

Cocanada,
6th March 1886.

(Signed) J. THOMSON,
Acting Magistrate.

From H. P. GORDON, Esq., District Magistrate of South Arcot, to the Chief Secretary to Government, dated Vriddháchallam, 19th March 1886, No. 26.

I have the honor, with reference to G.O., dated 5th May 1883, No. 625, Judicial, and to rule 6 of the rules embodied in G.O., dated 9th February 1882, No. 192, to forward herewith reports (with enclosures) from the Assistant Magistrate and Deputy

Magistrate, General Duties, on the working of the Factories Act (XV of 1885) during the calendar year ending 31st December 1885.

2. There are three factories and two mills in this district, as detailed in the margin. Of these, the factories at (1) Nellikuppam and (2) Tiruvennanallúr have already been registered under the Act. The factory at Eruvaliput and the oil mill at Bandipolliem (Nos. 3 and 4) do not fall within the scope of the Act, as they afford labor to less than 100 persons daily. The sugar-cane mill (No. 5) at the last-named place is not worked for a period of four months in the year so as to bring it within the designation of a factory (*vide* section 2 of the Act). These establishments have therefore not been registered.

1. The factory at Nellikuppam belonging to Messrs. Parry and Co.
2. Sugar factory and Arrack distillery at Tiruvennanallúr belonging to the said company.
3. Sugar factory at Eruvaliput belonging to Messrs. Sabapathy Mudaliar and Co.
4. Oil mill at Bandipolliem belonging to Messrs. Parry and Co.
5. Sugar-cane mill at Bandipolliem belonging to the said company.

3. The factory at Nellikuppam is situated in the Assistant Magistrate's division. This officer, as well as his predecessor, the Temporary Deputy Magistrate, have inspected it on four occasions during the year. The sanitary condition of the building is reported to be good and it is well ventilated. No accidents of any kind occurred in this establishment during the year under report.

4. The factory at Tiruvennanallúr was not in working order owing to the damages caused to it by the floods of November 1884. It is under repair. The Deputy Magistrate, General Duties, who has been appointed inspector of this factory, has inspected it twice during the year. He reports the occurrence of three accidents of a trivial nature, and not due to the use of machinery.

5. Statements showing the state of the factories * with reference to sanitation and ventilation are herewith forwarded, as called for in G.O., dated 7th July 1885, No. 1760, Judicial.

* At Nellikuppam.
At Tiruvennanallúr.

Enclosure.

From M.R.Ry. K. SUBBA ROW PANTULU GARU, Inspector of Factories and Deputy Magistrate, General Duties, South Arcot, to the District Magistrate of South Arcot, dated Tirukoilúr, 14th February 1886, No. 8.

I have the honor to submit my report on the working of the Factory Act for 1885.

2. There are two factories in this division. The sugar factory and arrack distillery of Messrs. Parry and Co. at Tiruvennanallúr was registered in 1881, and the other sugar factory of Messrs. Sabapathy Mudaliar and Co. at Eruvaliput is not yet registered as more than 100 coolies were not found at work.

3. Both the buildings of these factories were more or less much damaged by the heavy floods of December 1884, and thus they have been under repairs. No manufacture was carried out in the year in either of the factories. The Tiruvennanallúr factory was twice inspected during the year, and the other once by me as well as by my acting predecessor for three months.

4. A statement showing the state of the factories with reference to sanitation and ventilation is herein enclosed.

5. Three accidents were reported to me during the year from the agent of Tiruvennanallúr factory. All of them were of trivial nature. The patients were treated successfully in the Local Fund dispensary at Tirukoilúr. A statement showing the details of each case is herewith submitted.

Statement showing the state of the Factory with reference to sanitation and ventilation, &c.

Name of village.	Name of factory.	Date of inspection.	Number of persons employed.				Machine whether fenced or not.	Ventilation and sanitation.	Remarks.
			Adults.		Juveniles.				
			Men.	Women.	Males.	Females.			
Tiruvennanallúr.	Sugar factory and Arrack distillery.	28th September 1885.	22	..	..	..	Fenced ..	Good ..	Nil.
		18th December 1885.	..	..	..	..	..	..	The buildings are under repairs. No work connected with machines is going on.

Statement showing accidents occurred in Sugar factory at Tiruvennanallúr during the year 1885.

Date of occurrence.	Name.	Caste.	Sex.	Age.	Nature of injury.	Remarks.
2nd January 1885.	Arulandoo ..	Udyan ..	Male .	22	Inward wound in the back part of left hand palm.	The accident was caused by the fall of a piece of wood carried by a cooly who fell down on a slippery ground.
16th May 1885 ..	Krishnappa Naick.	Kavara ..	Do. ..	30	Wound in the big toe of the right foot.	The accident was caused by the dropping of an engine fitting whilst being removed.
17th July 1885 ..	Chinna Veerapathren.	Pillay ..	Do. ..	22	Wound in the left ear and cheek.	The accident was caused by his falling suddenly from a picottah, the rope attached to it had given way.

From R. MORRIS, Esq., Assistant Magistrate and Inspector of Factories, Cuddalore Division, to the District Magistrate of South Arcot, dated Cuddalore, 6th March 1886, No. 32.

I have the honor to submit the annual report on the working of the Factory Act for the calendar year 1885, together with extracts from registers A and B.

2. The only factory registered under the Act is the one at Nellikuppam belonging to Messrs. Parry and Co. It was inspected during the year by the Temporary Deputy Magistrate and myself on four occasions as specified in the margin, and the result of the inspection is shown in statement B.

17th June 1885 by me.
4th Sept. „ by me.
22nd Dec. „ by Temporary Deputy Magistrate.
24th „ „ by me.

2. I found the sanitary condition of the factory premises good, and the buildings well ventilated. As no children are employed in the factory, no registers in the forms D and E (Rule XV), and no file of certificates in form C (Rule XIV) were maintained during the year.

3. Messrs. Parry and Co. have another establishment at Bandipolliem (attached to Tirupápuliyúr) where a sugar-cane mill and an oil mill are worked. The former is not worked for four months in the year, while the number of coolies simultaneously employed in the other is below 100. Accordingly it has not been registered.

4. There were no accidents during the year under report.

5. No prosecutions have been ordered during the year.

Statement showing the number of persons employed on the last day of inspection and the state of the factories with reference to sanitation and ventilation.

Name of district.	Name of factories.	Number of persons employed at the end of the year, *i.e.*, on the 24th December 1885.				Machinery whether fenced or not.	Ventilation and sanitation.
		Adults.		Juveniles.			
		Men.	Women.	Males.	Females.		
Cuddalore taluk, South Arcot district.	Sugar manufactory refinery and spirit distillery of Messrs. Parry and Co. at Nellikuppam.	281	26	..	..	Fenced ..	Sanitary condition of the factory premises good, and the buildings well-ventilated.

From Colonel T. WELDON, Commissioner of Police, to the Chief Secretary to Government, dated Madras, 30th March 1886, No. 23.

I have the honor to forward the Acting Deputy Commissioner's report for 1885 on the Factories in the City of Madras.

2. Only 38 accidents occurred in 1885 against 40 in 1884. All but one case were trivial. The machinery in all the factories is fenced and ventilation good. The only matter calling for special remark during the year was a strike of the operatives at the "Carnatic" Mill, a matter which was set right by the introduction of hands from Bombay. When these Bombay men first came, there was an attempt made to intimidate them, but precautions were taken by the police to prevent any serious disturbance of the public peace or interference with the rights of free labor.

Enclosures.

From S. D. SIMPSON, Esq., Acting Deputy Commissioner of Police and Inspector of Factories, to the Commissioner of Police, dated Madras, 29th March 1886, No. 35.

I have the honor to report that the Factories in the City of Madras were visited by me during the calendar year 1885, as stated below :—

Name of factory.	Date of inspection.	Number of times examined.
Buckingham Mill	26th Feb., 29th Sept., 24th Dec. 1885 ..	3
Carnatic Mill	26th „ 16th „ 24th „ „ ..	3
Southern India Spinning and Weaving Mill.	20th Jan., 28th May, 15th Sept., 14th Nov. and 24th Nov. 1885.	5
Gunpowder Factory	23rd Apr., 18th Aug., 31st Dec. 1885 ..	3
Gun Carriage Factory	30th „ 1st Oct., 29th „ „ ..	3
Massey's Iron Foundry	24th „ 3rd Aug., 27th Nov. „ ..	3
United Spinning and Weaving Mill ..	20th Feb., 17th „ 26th „ „ ..	3
Public Works Workshops	28th Apr., 27th „ 23rd Dec. „ ..	3
Harbour Works	27th „ 19th „ 22nd „ „ ..	3
Arsenal	21st „ 24th „ 21st „ „ ..	3
Cement Works	24th „ 26th „ 27th Nov. „ ..	3

2. *Accidents.*—There were 38 accidents in all during the year. Statement A shows in detail the number in each factory, how they occurred, and the extent and description of the injury in each individual case. It will be seen from this statement that the injuries sustained in the major portion of the cases were trivial, while only one proved fatal. This accident occurred in the Carnatic Mill, Perambur. It was entirely due to the carelessness of the deceased himself, who attempted to fasten a belt while the wheel was in motion. He was instantaneously caught up by the strap, and before any assistance could be rendered by the

operatives in the dye-room where this happened, he was severely injured—literally smashed up. He was immediately removed to the General Hospital, where he died soon after amputation of his limbs.

3. *Children.*—The Buckingham and Carnatic Mills, as reported by me last year, still exclude children under 12 years of age. The number rejected for this reason during the year was 126 in the former and 211 in the latter. In January 1885, the Buckingham had on its rolls 79, and the Carnatic 81 children under 12 years of age remaining from 1884. The year closed with 22 in the former and 39 in the latter—the others having either attained the age of 12 years, or discontinued their attendance. The children were allowed the usual holidays during the year, and are well cared for.

4. The following table shows the number of persons employed at the end of the year, and the state of the factories in regard to sanitation and ventilation :—

Name of factory.	Number of persons employed at the end of the year 1885.				Machinery, whether fenced or not.	Ventilation and sanitation.
	Adults.		Juveniles.			
	Men.	Women.	Males.	Females.		
Buckingham Mill	589	67	20	2	Yes.	Good.
Carnatic Mill	603	61	35	4	Do.	Do.
Southern India Spinning and Weaving Mill.	451	8	..	..	Do.	Do.
Gunpowder Factory	108	11	..	..	Do.	Do.
Gun Carriage Factory	409	1	..	..	Do.	Do.
Massey's Iron Foundry	137	..	..	..	Do.	Do.
United Spinning and Weaving Mill ..	479	15	..	..	Do.	Do.
Public Works Workshops	215	2	..	..	Do.	Do.
Harbour Works	409	17	..	..	Do.	Do.
Arsenal	678	..	..	..	Do.	Do.
Cement Works	201	71	..	..	Do.	Do.

5. *Sanitation.*—The Madras United and Southern India Spinning and Weaving Mills have erected new and improved latrines in room of those condemned by me in 1884.

6. In paragraph 8 of last year's report I referred to a strike in the Carnatic Mill, and the intention of Messrs. Binny and Co. to employ men from the Bombay Presidency. This strike in the Carnatic Mill was owing to the introduction of the Bombay wage-system, and the addition of 135 new machines in the weaving department. Owing to these changes the Madrassees struck work and remained obdurate, although the agents, who were paying 50 per cent. more than Lancashire for cloth manufactured according to the standard list, offered them an advance of 10 per cent. on the Bombay rates. Messrs. Binny and Co. then sent to Bombay for and secured the services of 95 weavers who arrived in January 1885 when work was resumed. As soon as the local operatives discovered that the mill was independent of them, they begged to be re-employed on the terms proposed by the agents They were thereupon taken on again, but the men who had been foremost in the strike were refused employment. During this year 25 of the Bombay weavers returned to their country, leaving 70 still working in this mill. Peace and quietness have since reigned here.

Statement A.

No.	Name of factory.	Date of accident.	Name of person injured.	Nature of injury.
1	Buckingham Mill ..	3rd March 1885 .	Sampangee ..	Ankle sprained by the slip of the ladder while putting on the belt that drives the machinery.
2	Do. ..	5th ,, ,, ..	Angamoothoo ..	Right hand lacerated by carelessly putting it in the ticker-in of carding engine.
3	Do. ..	28th ,, ,, ..	Abdul Khader ..	Slight injury to right-hand thumb by carelessly putting it in a pinion of roving frame.
4	Do. ..	30th Oct. ,, ..	Ragaven	Scalded on chest and arms by carelessly going near a boiler while being blown off.
5	Do. ..	14th Nov. ,, ..	Raguven	Slight injury to right hand and thumb by carelessly putting it in a wheel under mule carriage.
6	Do. ..	24th Dec. ,, ..	Ragaven	Injury to two fingers by putting them under band-pulley.
7	Carnatic Mill ..	6th Jan. ,, ..	Vencatasamy ..	Injured his left-hand thumb by carelessly putting his hand in the wheel of the roving frame.

Statement A—*continued.*

No.	Name of factory.	Date of accident.	Name of persons injured.	Nature of injury.
8	Carnatic Mill ..	30th June 1885.	Ponnoosamy ..	Hurt his third finger of right hand by carelessly putting it in the frame.
9	Do. ..	6th Mar. ,, ..	Nagoor Saib ..	Hurt his left-hand third finger by wilfully putting his hand in the fan box.
10	Do. ..	22nd ,, ,, ..	Mathoray	Slight injury on his left-hand first finger by carelessly putting it under the table plate wheel of a card.
11	Do. ..	22nd ,, ,, ..	Mr. Jackson ..	Hurt his left-hand second finger by carelessly allowing it between the —— and the casing end of the throstle frame.
12	Do. ..	26th ,, ,, ..	Iyacunnoo	Slight hurt on his forehead by breaking the plug of the steam tap for want of sufficient caution while hammering it.
13	Do. ..	21st May ,, ..	Mathoray	Slight hurt on his first finger, left hand, by carelessly putting it in front of stool while working.
14	Do. ..	22nd ,, ,, ..	Aroonachellam ..	Slight hurt on his first finger, left hand, by carelessly putting it in the throstle frame.
15	Do. ..	30th ,, ,, ..	Cundasamy ..	While putting on a belt in the dye-room he became entangled with the belt-lapping round the shaft, lost both his arms and legs and body broken and mutilated.
16	Do. ..	5th June ,, ..	Appasamy ..	Slight hurt on his thumb of left hand by putting it in the loom with which he has no connection whatever.
17	Do. ..	18th ,, ,, ..	Narrainasamy ..	Hurt his third finger of right hand by carelessly putting it in the wheel of the loom while working.
18	Do. ..	27th July ,, ..	Iyavoo	Hurt his left-hand while descending from the roof of the spinning room.
19	Do. ..	1st Sept. ,, ..	Moonesamy ..	Slightly hurt on his head.
20	Do. ..	5th ,, ,, ..	Yaloomalay ..	Hurt his right-hand fingers by wilfully putting them on the wheel.
21	Do. ..	12th ,, ,, ..	Annasamy ..	Hurt his right-hand second finger by putting it in the loom while working.
22	Gun Carriage Factory.	14th Feb. ,, ..	Veerasamy ..	Injured the forearm of his left hand while turning over an axle-tree bed in the workshop.
23	Do. ..	16th ,, ,, ..	Chinnarajoo ..	Injured his lower jaw while unloading a slab of timber.
24	Do. ..	5th April ,, ..	Davood Khán ..	Injured his right-hand fore-finger while engaged at the tube-drawing machine.
25	Do. ..	15th ,, ,, ..	Sooben	Injured last three fingers of right hand while working at the general-joiner machine.
26	Do. ..	13th June ,, ..	Veerappa Achary .	Injured the instep of his left foot by fall of a jack plane iron from his hand.
27	Gunpowder Factory.	7th May ,, ..	Thandavaroyan ..	Sprain in the back while carrying a part of the granulating machine.
28	Do. ..	18th Sept. ,, ..	Varaden	Wound to big and second toes of left foot, caused by a truck wheel running over his foot.
29	South India Spinning and Weaving Mill.	17th Jan. ,, ..	Veerasamy Naidu ..	Right-hand fingers slightly bruised while cleaning carding machine in working order.
30	Do. ..	1st Feb. ,, ..	Syed Abas ..	Right-hand fingers slightly injured by drawing machine in the card room.
31	Do. ..	7th May ,, ..	Valoo	Middle finger of right hand slightly bruised by drawing machine in the card room.
32	Do. ..	17th July ,, ..	Abdul Rhyman ..	Slightly injured in one of the right-hand fingers while oiling the bowel wheel.
33	Massey's Iron Foundry.	19th Feb. ,, ..	Coollen	Eye burnt by spark from spelt metal.
34	Public Works Workshops.	18th May ,, ..	Coomarasamy ..	Fourth toe of left foot jammed, caused by a foot-lathe treadle.
35	Do. ..	6th June ,, ..	Chinnasamy ..	Middle of the right foot cut by a block of wood falling on.
36	Do. ..	31st July ,, ..	Narrainasamy ..	Hurt on the back of the right heel by an iron casting.
37	Do. ..	5th Oct. ,, ..	Extra cooly ..	Left-hand crushed by a cart pole falling on the left hand.
38	Madras United Spinning and Weaving Mill.	15th July ,, ..	Mooroogen ..	Right arm broken by his own carelessness, his arm being caught in mules while working at it.

From W. LOGAN, Esq., District Magistrate of Malabar, to the Chief Secretary to Government, dated Calicut, 30th March 1886, No. 1280.

Referring to paragraph 5 of G.O., No. 1760, Judicial, dated 7th July 1885, I have the honor to report the results of the inspection of the factories that were once on the list, but struck off in accordance with G.O., No. 1504, Judicial, dated 6th June 1883.

2. The factories in the sub-division were inspected by the Joint Magistrate of Malabar, and those in Calicut by the Deputy Magistrate of Wynaad. They are as follows :—

Sub-Division.

1. Messrs. Peirce, Leslie and Co.'s coffee-curing establishment.
2. " Hinde, Palmer and Co.'s coffee-curing works.
3. " Alston, Low and Co.'s coffee-curing and bone-crushing establishment.

Calicut.

4. Karaparamba coffee works—Messrs. Peirce, Leslie and Company.
5. Plantation House works—Messrs. Hinde and Company.
6. Mammally coffee works—Ochterlony Trust.
7. German Mission tile works.
8. Messrs. Stanes and Co.'s works—Marakat.

These factories do not fall within the scope of the Act, as the number of hands employed in each process is not sufficient to bring them under the Act.

3. Sanitary arrangements are generally satisfactory at all these establishments, except at Karaparamba works, where the Deputy Magistrate of Wynaad reports the latrines which are *inside* the working portion of the bone-crushing works are objectionable on sanitary grounds. I have asked the District Medical and Sanitary Officer to inspect and report on the position of the latrines.

4. There was only one accident during the year. A boy, employed in Karaparamba works to attend the bone disintegrator, neglected his duty and amused himself by putting a rope round a driving shaft. The rope caught in a pulley block, and the boy was swung round by the revolving shaft, thereby fracturing the lad's arm and legs.

5. A statement is appended hereto showing the results of the inspections.

Enclosure.

Statement showing the result of Inspection of the Factories in Malabar for the year 1885.

District.	Taluk.	Name of the factory.	Number of hands employed. Men.	Women.	Children.	Number of accidents.	Machinery fenced or not.	Ventilation.	Sanitation.	Remarks.
Malabar.	Kóttayam ..	1. Chonnadam coffee works—Peirce, Leslie and Co., Tellicherry.	60	353	20	None ..	One fly-wheel is unfenced.	Good ..	Good	There is a steam engine of 10½ horse power.
	Do. ..	2. Kunhikolam coffee works—Messrs. Hinde and Co., Tellicherry.	30	315	55	..	One driving belt is not fenced.	Do. ..	Do.	One of 15 horse power. Mr. Thompson, Agent, has promised that he would have the belt fenced.
	Do. ..	3. Pallikun coffee works—Messrs. Alston, Low and Co., Tellicherry.	42	700	74	..	Securely fenced.	Do. ..	Very satisfactory.	
	Calicut ..	4. Karaparamba coffee works—Messrs. Peirce, Leslie and Co., Calicut.	90	427	135	One (*vide* paragraph 4 of the report).	Do. ..	Do. ..	Sanitation unsatisfactory (*vide* paragraph 3 of the accompanying report).	
	Do. ..	5. Plantation House works—Messrs. Hinde and Co., Calicut.	57	550	35	None ..	Do. ..	Do. ..	Latrines provided.	
	Do. ..	6. Mammally coffee works—Ochterlony Trust	54	627	27	Do. ..	Do. ..	Excellent.	Latrines provided. Sanitation excellent.	
	Do. ..	7. German Mission tile works	133	10	..	Do. ..	Do. ..	Good ..	Two latrines for males and females put up since last inspection on the edge of the backwater.	
	Do. ..	8. Stanes and Co.'s works, Marakat	34	216	50	Do. ..	Do. ..	Do. ..	Scavengers employed; sewers cleaned out by steam into the river.	

From J. LEE-WARNER, Esq., District Magistrate of Tinnevelly, to the Chief Secretary to Government, dated Tinnevelly, 5th April 1886, No. 276.

I have the honor to report on the operation of the Factories Act in this district in 1885.

2. At the beginning of the year under report there were two factories registered under the Act, viz., Tuticorin Cotton Press Company, Limited, and cotton press of A. and F. Harvey and Co., Virudupati.

1. Cotton-spinning factory, Pápanásam.
2. Cotton press of Darley, Butler and Co., Tuticorin.

The two factories named in the margin were taken under the purview of the Act by the Head Assistant and the Joint Magistrates during the year.

3. Tuticorin cotton press and the cotton press of Darley, Butler and Co. lie in the Joint Magistrate's division; cotton-spinning factory, Pápanásam, in Head Assistant Magistrate's; and cotton press of A. and F. Harvey and Co., Virudupati, in the General Charge Deputy Magistrate's. Copies of the reports of these officers are herewith submitted.

4. The General Charge Deputy Magistrate was formally appointed inspector under the Act for his division under the notification of Government, No. 444, dated 27th October 1885.

5. It will be seen from the reports of the Joint and the General Charge Deputy Magistrates that there are, besides the above four registered factories, others which cannot be brought under the Act because they employ less than 100 coolies. They are watched and occasionally visited by the inspectors, as directed by Government in their review of the last year's reports.

6. The registered factories have been visited by the inspectors during the year as stated below :—

Names of factories.	Date of inspection.	Number of times examined.	Remarks.
1. Tuticorin Cotton Press Company (Limited).	8th July 1885 and 14th December 1885.	2	..
2. Cotton Press of A. and F. Harvey and Co., Virudupati.	31st August 1885 and 22nd December 1885.	2	..
3. Cotton-spinning Factory, Pápanásam ..	29th August 1885, 7th October 1885 and 21st December 1885.	3	..
4. Cotton Press of Darley, Butler and Co., Tuticorin.	Nil	..	Registered only in Oct. 1885.

7. The following table shows the number of persons employed at the time of each inspection and the state of the factories with reference to sanitation and ventilation :—

Names of factories.	Date of each inspection.	Number of persons employed.				Machinery whether fenced or not.	Ventilation and sanitation.
		Adults.		Juveniles.			
		Male.	Female.	Male.	Female.		
1. Tuticorin Cotton Press Company (Limited).	8th July 1885 ..	96	21	..	..	Yes ..	Sufficiently ventilated.
	14th Dec. ,, ..	107	18	..	..		
Cotton Press of A. and F. Harvey and Co., Virudupati.	31st Aug. ,, ..	Average number employed throughout the year—38.				Yes ..	Well.
	22nd Dec. ,, ..						
3. Cotton-spinning Factory, Pápanásam.	29th Aug. ,, ..	212	42	14	5	Yes ..	Well.
	7th Oct. ,, ..	163	47	9	..		
	21st Dec. ,, ..	219	63	..	..	Yes ..	Well.
4. Cotton Press of Darley, Butler and Co., Tuticorin.	....	..	..	..	..		

8. *Accidents.*—There have been three accidents in the Pápanásam Spinning Mill Factory as detailed in paragraphs 10 and 11 of the Head Assistant Magistrate's report. Other factories have been free from accidents.

9. No children are employed in the factories at Tuticorin and Virudupati, and the Pápanásam factory, for which working times for children have been arranged as approved of by Government in their order, No. 812, dated 13th October 1885, has ceased to employ any children.

10. There were no prosecutions anywhere during the year.

11. With reference to paragraph 4 of the Joint Magistrate's report, I beg to submit copy of his letter, No. 109, dated 22nd September last, therein referred to, which contains an account of the unregistered factories at Tuticorin. On this letter I pointed out to the Joint Magistrate that the question of bringing any factory under the Act is within his own cognizance and disposal, and instructed him to give notice to Darley, Butler and Co. under section 14 of the Factory Act XV of 1881.

Enclosures.

From W. M. THORBURN, Esq., Acting Joint Magistrate, to the District Magistrate of Tinnevelly, dated Otapidáram, 22nd September 1885, No. 109.

In reply to your docket, No. 390, dated 24th April last, I have the honor to inform you that I inspected the cotton presses noted in the margin on the dates specified.

1. Volkart's Brothers on the 13th August 1885.
2. Darley, Butler and Co. on the 13th August 1885.
3. Gaddum, Bythell and Co. on 21st August 1885.
4. Kempwelch Press on the 24th August 1885.

2. No children were employed in these factories on the day of my inspection, and the number of persons employed in manual labor was less than 100 according to the accounts furnished by the managers of the several firms.

3. Mr. Winterbotham required the agents of these factories in July last to furnish him with a return of the number of work-people employed on working days. The agent of Messrs. Darley, Butler and Co. furnished a list of 126 employés, excluding office staff. The rest affirmed that the number of work-people simultaneously employed on any day has never amounted to 100.

4. Though the number of persons employed on the day of inspection was under 100, yet, as the former return showed considerably over 100, I think that the factory of Messrs. Darley, Butler and Co. ought to be brought under inspection according to the Factory Act. This firm has two presses, whereas the others have only one each.

5. In all cases it seemed to me that the machinery required fencing, and I think that for this purpose, the Factory Act ought to be applied to all works where there is a steam engine, irrespective of the number of persons employed. The machinery of Messrs. Darley, Butler and Co. was better fenced than that of any other firm. That of Messrs. Gaddum, Bythell and Co. and Volkart Brothers seemed to me decidedly dangerous. The Engineer of the latter informed me that an accident occurred lately to a woman, which might have been serious if he had not rescued her at the cost of some hurt to himself. I must, however, add that the agents of both firms promised to carry out the changes which I recommended for greater security. All the factories are properly ventilated.

From E. C. RAWSON, Esq., Head Assistant Magistrate, to the District Magistrate, Tinnevelly, dated Tinnevelly, 7th January 1886, No. 2.

I have the honor to submit my report on the working of the Factory Act (No. XV of 1881) in my division for the year 1885.

2. There is only one factory in my division. It is a cotton-spinning factory worked by water-power by the Tinnevelly Mills Company at Pápanásam in the Ambásamudram taluk. It was registered on the 27th April last.

3. I inspected the factory on three occasions during the year, viz., on the 29th August, the 7th October and the 21st December. The number of persons working in the mill on the dates of inspection were as follows :—

Date of inspection.	Adults.		Children.	
	Male.	Female.	Male.	Female.
29th August	212	42	14	5
7th October	163	47	9	..
21st December	219	63	..	..

4. The working times for children were arranged as follows; one batch of children worked from 6 A.M. to noon, and another from noon to 6 P.M. This arrangement was approved by Government. Since my inspection on the 7th October, 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.

5. Mr. William Cooper, the Civil Apothecary at Ambásamudram, has been appointed by Government to be certifying Surgeon for this factory.

6. Four holidays are fixed for each month as required by the Act, and reported to me at the beginning of each month.

7. The rules and schedules, &c., are conspicuously posted in the factory as required by the rules.

8. All the machinery is securely fenced. It is impossible, so far as I can see, for any one to be injured except by the grossest carelessness.

9. The building is well ventilated.

10. Since the factory was registered, there have been three accidents, of which only one occurred in the mill itself. This was on the 8th September, when a man named Cunniah Naiken, who was standing on a ladder piecing together two ends of a strap, let the strap slip from his hand. The strap lapped round his arm and carried him up to the shafting, tearing out one of his arms. He has since quite recovered, and now, I believe, has been made a peon at the factory. The accident appears to have been entirely due to the man's own carelessness and disobedience of orders.

11. The other two accidents occurred on the 3rd September; they were practically one and the same, and they did not occur in the mill itself. A number of men had fastened a rope to a block which was attached to a tree, and were hauling at the rope to stretch it. The rope by which the block was fastened to the tree broke, the block flying forward and striking two men, breaking the leg of one, named Akbar Ali Sahib, and causing a flesh wound on the other, named Annamalayappa Pillai.

12. These accidents were reported to me at once as required by the rules.

13. No prosecutions were instituted during the year.

14. The condition of the mill is satisfactory, and I have received every assistance in my inspections from the managers.

List of Accidents that occurred in the Factories in the Head Assistant Magistrate's Division, Tinnevelly, during 1885.

Name.	Caste.	Sex.	Age.	Nature of injury.
1. Cunniah Naiken	Hindu	Male	20	Left arm broken off.
2. Akbar Ali Sahib	Muhammadan ..	Do.	30	Left leg broken.
3. Annamalayappa Pillai	Hindu	Do.	20	Right leg wounded.

From W. M. THORBURN, Esq., Acting Joint Magistrate, to the District Magistrate of Tinnevelly, dated Tuticorin, 11th February 1886, No. 27.

I have the honor to submit my annual report on the working of the Factory Act for the calendar year 1885.

2. The Tuticorin Cotton Press Company (Limited) continued to be under inspection. It was inspected by Mr. Winterbotham on the 8th July and by me on the 14th December 1885. On 8th July, 96 men and 21 women were employed, and on 14th December, 107 men and 18 women were at work.

5. The manager has not allowed any children to be employed in this factory. No accident has been reported during the year. The factory is sufficiently ventilated and machinery is properly fenced.

4. The cotton presses noted in the margin were inspected by me on the dates specified against each, and the result was reported to you in my letter, No. 109, dated 22nd September last. In accordance with the instructions contained in your letter, No. 1332, dated 6th October 1885, I gave notice to the Agent of Messrs. Darley, Butler and Co., that his factory has been placed under inspection and that he must comply with the provisions of the Factory Act and the rules made under it.

Messrs. Volkart's Brothers on 13th August 1885.
" Darley, Butler and Co. on 13th August 1885.
" Gaddum, Bythell and Co. on 21st August 1885.
" Kempwelch Press on 24th August 1885.

5. I joined the district on 1st August 1885. After the factory of Messrs. Darley, Butler and Co. was taken under supervision, I was on tour for much of the time in November and December, and during the short intervals when I stayed at Tuticorin, the press was not working, the busy season for work having come to an end.

From M.R.Ry. M. C. SURYAMURTHY PILLAI, General Charge Deputy Magistrate, to the District Magistrate of Tinnevelly, dated Sátúr, 27th February 1886, No. 9.

I have the honor to submit my report on the working of the cotton factories in my division for the year 1885, with the usual statements.

2. There are in all four cotton presses—three at Virudapati and one at Sátúr, as noted in the margin. Of these, the first alone was taken under the Act on 3rd May 1884. This factory was inspected by me on two occasions, viz., on the 31st August and 22nd December 1885. There was no work in the factory when I visited it, but Mr. Eward and Cundasami Pillai, however, showed me all the places and machinery, and I found the dangerous machinery to have been securely fenced and all the rules have been strictly attended to.

1. A. and F. Harvey at Virudupati.
2. South Indian Press Company (Limited).
3. Cotton Company (Limited), Dymes and Co.—Factory, Virudupati.
4. A. and F. Harvey at Sátúr.

3. No children were employed in this factory, nor did any accident occur in it during the year.

4. There has been no complaint of any kind also by the manager.

5. The factory premises have been kept clean and the factory is well ventilated.

6. The other factories have not yet been brought under the Act, as the number of persons employed in each of them on any one day was less than 100. A building is erected by Messrs. Milligan and Co. at Virudupati for establishing a cotton factory, but it is not yet open for business.

7. Only one accident occurred in the factory at Sátúr, viz., the case of a man whose tip of the first finger was cut off by the handle of the press door when opening, and this is attributed to his own carelessness, but this factory is not brought to the register under the Act, as the number of laborers employed in it was less than 100.

8. The factories Nos. 2, 3 and 4 are watched by me, and as soon as any one of them fulfil the necessary conditions, I shall take steps to bring it under the Act.

List of Factories in the General Charge Deputy Collector and Magistrate's Division, Tinnevelly District, for the year 1885.

No.	Name of District.	Name of Factory.	Number of Hands employed.	Number of Accidents.	Machinery whether fenced or not.	Ventilation and Sanitation.
1.	Tinnevelly ..	A. and F. Harvey, at Virudupati.	38 (being average number employed throughout the year).	*Nil.*	Fenced	Good.
2.	Do. ..	Southern India Press Company (Limited), at Virudupati.	18 (being average number employed throughout the year).	*Nil.*	Enclosed by walls ..	Do.
3.	Do. ..	Cotton-pressing Company (Limited), Messrs. Dymes and Co.—Factory, Virudupati.	12 (being average number employed throughout the year).	*Nil.*	Fenced	Do.
4.	Do. ..	A. and F. Harvey, at Sátúr.	11 (being average number employed throughout the year).	1	No machinery requiring fencing.	Do.

Accidents in the year 1885 in Factories in the General Charge Deputy Magistrate's Division, Tinnevelly District.

No.	Name of Factory.	Date of Occurrence.	Name of Persons injured.	Nature of Injury.
1.	Southern India Press Company (Limited) at Virudupati.	*Nil.*	*Nil.*	*Nil.*
2.	A. and F. Harvey at Virudupati ..	*Nil.*	*Nil.*	*Nil.*
3.	Cotton-pressing Company (Limited), Messrs. Dymes and Co.—Factory, Virudupati.	*Nil.*	*Nil.*	*Nil.*
4.	A. and F. Harvey at Sátúr ..	10th August 1885 ..	Shaik Koothanu	Tip of first finger cut off by the handle of the press door opening.

Order—dated 31st May 1886, No. 1435, Judicial.

From the foregoing reports, it appears that there were twenty-four factories falling under the operation of the Factories Act during the year 1885, of which twelve were situated in the districts shown in the appendix, and the rest in the Presidency town.

2. The reports are generally satisfactory, and show that the provisions of the Act received due attention. The recommendation made by the District Magistrate of Vizagapatam, in paragraph 3 of his endorsement, dated 22nd January 1886, that the Civil Apothecary, Bimlipatam, should be appointed certifying surgeon under section 5 of the Act, is approved. The draft notification submitted by the District Magistrate will be duly published. The fencing of the cylinders in the Gunny Factory at Chittavalasa, referred to in G.O., 7th July 1885, No. 1760, has, it is observed, been carefully investigated by the Deputy Magistrate, who has satisfied himself that what has already been done to protect this part of the machinery is sufficient to minimise the chances of danger, and that, in the circumstances, nothing further needs to be done.

3. Seventy-seven accidents are reported to have occurred during the year, many of them due to other causes than the use or defective control of machinery. Only one case, which occurred in the Carnatic Mills, Perambúr, proved fatal, where in an attempt to fasten a belt to a wheel in motion, a workman became entangled by the strap round the shaft, and, before any assistance could be given, was so mutilated that he died shortly after.

4. With regard to the instructions given in paragraph 5 of G.O., dated 7th July 1885, No. 1760, that factories removed from the register should be occasionally visited, in view to their being brought again on the register, should they fulfil the necessary conditions, it would appear that this occasional inspection has been carried further than was intended. Its main object should be to ascertain whether the factory is liable to be placed on the register, and, so long as that is not the case, orders should not be issued to proprietors and managers, but defects should be pointed out and their amendment suggested.

5. The Government approve the action of the District Magistrate, Bellary, in having directed the removal of the presses at Adóni from the register. It is observed that work in the Sugar Factory at Tiruvanamallur was suspended during the year under review, owing to the buildings having been damaged by the heavy floods which, in November 1884, visited the district.

6. With reference to the letter of the Joint Magistrate of Tinnevelly, dated 22nd September 1885, No. 109, his attention will be drawn to the definition of "Factory" in section 2 of the Act. No factory can be brought on the register prescribed by the rules unless it fulfils the conditions of that definition. The maximum, and not the average, number of hands employed should be stated in the returns.

7. Inspections generally were good, except in the district of Godávari. There, the workshop at Dowlaishweram was inspected only once during the year, and no reason has been assigned for not complying with the standing instructions in the matter. The District Magistrate will supply the omission.

(True Extract.)

Chief Secretary.

To all District Magistrates.
" the Public Works Department.
" the Consulting Engineer for Railways.
" the Commissioner of Police.

APPENDIX.

Name of District.		Name of Factory.	Number of hands employed.	No. of Accidents.	Machinery, whether fenced or not.	Ventilation and sanitation.
Vizagapatam ..	..	Gunny Factory, Chittivalasa.	Adults .. 415 Juveniles .. 255	2	Fenced or otherwise protected.	Good. Clean and well ventilated.
Ganjam ..	Aska	Sugar Factory, Aska ..	Adults .. 267 Juveniles .. 97	3	Securely fenced.	
Madras ..	Perambúr ..	Perambúr Railway Workshops.	2,252	21	Sufficiently fenced.	Good.
Tanjore ..	Negapatam ..	South Indian Railway Locomotive and Carriage Shops.	1,571	5	Do. ..	Do.
Bellary ..	Bellary ..	Bellary Spinning and Weaving Mill.	Adults .. 145 Juveniles .. 87	2	Fenced ..	Do.
Kistna ..	Bezváda ..	Government Workshop, Bezváda.	Adults .. 213 Juveniles .. 9	Nil.	Safe	Do.
Godávari ..	Amalápuram ..	Government Workshop, Dowlaishweram.	Adults .. 187 Juveniles .. 76	Do.	Fenced ..	Do.
South Arcot.	Vriddháchalam	Tiruvanamallur Sugar Factory and Arrack Distillery.	22	3	Do. ..	Do.
	Cuddalore ..	Nellikuppam Sugar Manufactory and Spirit Distillery.	307	Nil.	Do. ..	Well ventilated and sanitation good.
Madras ..	..	Buckingham Mill ..	Adults .. 656 Juveniles .. 22	38	Do. ..	Good.
		Carnatic Mill	Adults .. 664 Juveniles .. 39			
		South Indian Spinning and Weaving Mill.	453			
		Gunpowder Factory ..	119			
		Gun Carriage Factory ..	410			
		Massey's Iron Foundry ..	137			
		United Spinning and Weaving Mill.	494			
		Public Works Workshops.	217			
		Harbour Works	426			
		Arsenal	678			
		Cement Works	272			
	Tuticorin ..	Cotton Press Company, Limited.	121	..	Do. ..	Well ventilated.
	Virudupati ..	A. F. Harvey and Co.'s Cotton Press.	38	..		
Tinnevelly ..	Pápanásam ..	Cotton Spinning Factory.	Adults .. 248 Juveniles .. 14	3		
	Tuticorin ..	Cotton Press of Darley, Butler and Company.	..	..		

Exd. A. Raitt.

B. No 1792 W. 30 July 1883.

B No 1614 W a/ 24-6-88.

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18/6/88

S.R. No. 4690

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Govt. of {1886} Madras.

JUDICIAL.

Issued

Recd. 18-6-88 Encl.

G.O., 31st May 1886, No. 1435.

No 1614 W a/ 24-6-88

MAY.

21-6-88

Factories.

Reviewing the reports received on the operation of the Factories Act in the Madras Presidency during the year 1885.

S. Rs. ✓ Revenue
Rlg. ✓ 24/6/88
S. Histr. ✓

Encls in RR
one copy book 5/7/88

GOVERNMENT OF MADRAS.

JUDICIAL DEPARTMENT.

Read—the following papers :—

From the District Magistrate,	Chingleput,	dated	22nd	January	1887,	No. 102.
,, ,,	Madura	,,	27th	,,	,,	,, 5.
,, ,,	Coimbatore	,,	1st	March	,,	,, B.
,, ,,	Salem	,,	17th	,,	,,	,, 375.
,, ,,	Malabar	,,	31st	,,	,,	,, 1480.
,, ,,	Trichinopoly	,,	28th	April	,,	,, 24-2.
,, ,,	Kurnool	,,	15th	,,	,,	,, 125.

Abstract.—Reporting that there are no factories in the district.

From M.R.Ry. A. SURYANARAYANA NAIDU GAR, General Deputy Magistrate, to the District Magistrate of Ganjam, dated Russellkonda, 7th January 1887, No. 3.

I have the honor to submit the report under the Factories Act for the year 1886.

2. There is only one factory in the division, *i.e.*, the Sugar Factory of Messrs. Minchin Brothers and Co. at Aska.

3. I inspected this factory on four occasions in the year under report, viz., 31st March, 11th June, 31st August and 18th December 1886.

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

5. All dangerous machinery was securely fenced.

6. The rule as to posting up in a conspicuous place notice of working hours, as also rules and forms in English and Telugu, was properly observed.

7. On the whole, the factory and premises are in a thoroughly satisfactory condition, and I have received every assistance in my inspections from the manager.

8. Seven accidents were reported to me during the year. The injured persons were treated successfully in the local fund dispensary at Aska. A statement showing the details of each case is annexed :—

No.	Date of accident.	Name.	Caste.	Sex.	Age.	Nature of injury.
					Years.	
1	14th January 1886..	Issara Naick.	Bowri ..	Male..	28	Left foot injured by trash rake caused by another cooly while drawing cane trash from diffuson.
2	17th February 1886.	Looddu Naik.	Do. ..	Do.	25	Right foot injured by a piece of machinery in which he was engaged in hoisting, slipping on it.
3	27th March 1886 ..	Kalloosway i.	Halliya ..	Do.	40	Middle and fourth fingers of left hand slightly crushed at the ends, while putting a cast-iron wheel in motion.
4	10th May 1886 ..	Chendramony.	Chuckler ..	Do.	25	Lacerated wound about 3 inches long on the back of his right hand at the root of the fingers and extending up, in two fingers, to the first joint of them, caused by putting a belt on a centrifugal driving wheel in full motion.
5	12th August 1886 ..	Binaikosow..	Goodia ..	Do.	24	Lacerated wound on the back of his right hand caused by putting a belt on a centrifugal driving wheel in full motion.
6	3rd October 1886 ..	Moothoo Pathro.	Fisherman.	Do.	35	Back of right hand slightly bruised when oiling the engine during motion.
7	26th November 1886.	Monigowdu..	Gowdu ..	Do.	48	Right leg was caught in one of the centrifugal belt wheels, whereby his ankle was dislocated and many cuts were made in other parts of his leg.

9. 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.	Male.	Female.			
Sugar Factory at Aska.	31st March 1886.. ..	358	..	84	..	Securely fenced.	Clean and well ventilated.	
	11th June 1886 ..	159	..	38	..	Do.	Do.	do.
	31st August 1886 ..	474	..	53	..	Do.	Do.	do.
	18th December 1886 ..	482	..	20	..	Do.	Do.	do.

No. 11-E.

Endorsement on the above.

Submitted to the Chief Secretary to Government, Judicial Department, Fort St. George.

Russellkonda,
29*th January* 1887. (Signed) J. G. HORSFALL,
District Magistrate.

From P. RAMACHENDRA ROW, Esq., Acting Head Assistant Magistrate and Inspector of Factories, Kistna district, to the District Magistrate, Kistna, dated Bezváda, 19th January 1887, No. 9.

I have the honor to submit my report, under the Factories Act XV of 1881, for the calendar year 1886.

2. There is only one factory in the division, viz., the Department of Public Works Workshops, Bezváda.

3. This factory was inspected by me on the 22nd September, and by my predecessor on 2nd February and 6th March, respectively.

4. The rule as to posting up in a conspicuous place notice of working hours and holidays, as also rules and forms in English and Telugu (*vide* Rule XXIII), was being properly observed.

5. The registers under Forms D and E were kept, and the certificates given in Form C by the certifying surgeon were pasted in a book.

6. A notice, giving particulars as to the intervals for food and rest to children, was also posted in front of the factory.

7. The hours fixed were from 6 A.M. to 6 P.M., with two hours interval, that is, ten hours in all.

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

9. No accidents were reported in the year under report.

10. I enclose a statement showing the number of persons employed at the time of inspection, and the state of the factory with reference to sanitation and ventilation.

Enclosure.

Statement.

Name of the division.	Name of factory.	Number of persons employed at the time of inspection.				Machinery whether fenced or not.	Ventilation and sanitation.	Date of inspection.
		Adults.		Juveniles.				
		Men.	Women.	Male.	Female.			
Head Assistant Magistrate's division.	Government D.P.W. Workshops, Bezváda.	181	..	3	..	Safe ..	Good ..	2nd Feb. 1886.
		194	..	4	..	Do. ..	Do. ..	6th Mar. ,,
		180	..	5	..	Do. ..	Do. ..	22nd Sept. ,,

No. 95.

Endorsement on the above.

Submitted to the Chief Secretary to Government in the Judicial Department, with reference to G.O., No. 329, dated 9th February 1883.

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

Masulipatam,
2*nd February* 1887. (Signed) R. SEWELL,
Acting District Magistrate.

From F. H. HAMNETT, Esq., Acting Joint Magistrate, to the Magistrate, Godávari District, dated Gannavaram, 1st February 1887, No. 25.

I have the honor to report on the working of the Factories Act XV of 1881 during the year 1886.

2. The Government workshop at Dowlaishweram is the only factory in the division coming within the scope of the Act. It was inspected by me twice during the year. There were employed at the factory 240 males and 3 females at the time of my first inspection on 10th June 1886, and 155 males and 4 females at the second inspection on 2nd August 1886. All of them were stated to be adults. At the time of my inspection there were twelve bellows-boys who were all reported to be over 12 years of age, but three of them did not, from their appearance, seem to be so old, and I therefore directed that, unless a certificate from the Civil Surgeon was obtained that these boys were over 12 years of age, registers in Forms D and E should be opened.

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

4. All dangerous machinery was properly fenced.

5. There were no accidents during the year.

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

7. The statements prescribed by Government in their order, No. 1760, dated 7th July 1885, is enclosed.

Enclosure.

Statement showing the number of persons employed at the end of the year 1886 in the Government Workshop, Dowlaishweram.

Name of district.	Name of factory.	Number of persons employed at the end of the year 1886.				Machinery whether fenced or not.	Ventilation and sanitation.	Remarks.
		Adults.		Juveniles.				
		Males.	Females.	Males.	Females.			
Godávari district.	Government Workshop..	134	4	66	..	Fenced ..	Good.	..

No. 3.

Endorsement on the above.

Submitted to Government with enclosures.

Cocanada, 14*th February* 1887.

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

Report on Railway Factories for the year 1886.

The two Railway Workshops in the presidency were each inspected three times during the year.

2. No children are employed in any of them.

3. The machinery at the Negapatam works is at present somewhat crowded, and will remain so until the extensions of shops, now in progress, are completed.

4. A detailed statement of the accidents which have taken place during the year is herewith submitted with a list of factories.

5. None of the accidents were serious.

(Signed) W. H. COAKER, Major, R.E.,
Inspector of Railway Factories.

Enclosures.

Detailed statement of Factory accidents on the Madras and South Indian Railways for 1886.

Railway.	Factory.	Date.	Remarks.
Madras Railway ..	Perambúr Works ..	31st March ..	A striker was injured by the staff bar of a steam hammer breaking and striking him.
Do. ..	Do. ..	8th May ..	A striker was injured by his thumb getting caught between a hook and the standard of the steam shears.
Do. ..	Do. ..	13th August ..	A machine-man was injured by his finger getting caught in the cog-wheel of a planing machine.
Do. ..	Do. ..	1st October ..	A blacksmith was injured by a chip of iron striking him in the eye.
Do. ..	Do. ..	6th December ..	A cooly was injured by a wheel running over his toe.
South Indian Railway.	Negapatam Works ..	30th March ..	A blacksmith was injured by the fall of a sledge hammer.
Do. ..	Do. ..	19th August ..	A striker was injured by one of his fingers getting between two wheels which he was pushing.
Do. ..	Do. ..	16th September ..	A cooly was injured by a piece of iron striking him on the throat.
Do. ..	Do. ..	18th October ..	A turner was injured by the handle of a crab winch striking him on the eye.
Do. ..	Do. ..	27th ,, ..	A fitter was injured by an axle-box falling upon him while it was being removed from the vehicle.
Do. ..	Do. ..	4th November ..	A fitter was injured by a piece of iron striking him in the eye.
Do. ..	Do. ..	10th ,, ..	A cooly was injured by the wheels of a cart running over his foot.
Do. ..	Do. ..	29th ,, ..	A cooly was injured by falling from a ladder while putting the belt on machine.
Do. ..	Do. ..	14th December ..	A cooly was injured by an iron plate which was being drilled falling on his foot.

List of Factories.

Name of district.	Name of factory.	Names of persons ordinarily employed.				Machinery whether fenced or not.	Ventilation and sanitation.
		Adults.		Juveniles.			
		Men.	Women.	Males.	Females.		
Madras ..	Perambúr Railway Workshops.	2,727	..	..	..	Sufficiently fenced.	Good.
Tanjore ..	South Indian Railway Locomotive and Carriage shops.	1,573	..	..	..	Do. ..	Do.

No. 52.

Endorsement on the above.

Submitted to Government, in the Judicial Department, with reference to their Proceedings, No. 329, dated 9th February 1883.

(Signed) W. H. COAKER, Major, R.E.,
for *Consulting Engineer for Railways.*

From M.R.Ry. V. JAGANNADHA ROW, Deputy Magistrate and Inspector of the Factory, to the District Magistrate, Vizagapatam, dated Vizianagrum, 26th January 1887, No. 9.

I have the honor to submit my report on the working of the Chittivalasa factory for the year 1886.

2. This is a gunny factory belonging to Messrs. Arbuthnot and Co. During the year under report I inspected the factory thrice without giving previous notice, viz :—

(1) On the 14th April between 5½ to 6½ P.M.;
(2) ,, 4th Sept. ,, 3 and 4 P.M.; and
(3) ,, 22nd Dec. ,, 11 A.M. and 2 P.M.

On all these occasions Mr. Innes, the manager of the factory, was on the premises and rendered me all necessary assistance.

3. In this factory jute is cleaned, twined and woven, and is 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 Sundays and also on eight English, and nine-and-a-half Native, holidays during the year. The working hours were the same as stated in the report for the year 1885, viz., from 5-30 A.M. to 6-30 P.M., with an interval of one-and-a-half hours from 12 to 1-30 P.M. in the months of November to the end of March, and of two hours from 12 to 2 P.M. in the months of April to October, except on Saturdays, when the engine stopped at 4-30 P.M. with an interval of only an hour at noon.

5. The average number of persons employed daily during the year was 691, and the number of persons at work on the dates of inspection was as follows :—

Date.	Men.		Women.	
	Above 16.	12 to 16.	Above 16.	12 to 16.
14th April 1886	304	263	78	9
4th September 1886	300	254	82	11
22nd December 1886	316	257	90	12

No children under 12 years were employed in the factory.

6. The factory is usually whitewashed and cleaned once a year. This was last done in December 1885 and completed in February 1886, and the work this year was begun on the 25th December 1886, and will, it is stated, be completed next month. The latrines were, as usual, scoured by hot water that escaped from the engine, and the arrangement seemed to me to answer the purpose very well.

7. The rooms of the building are properly ventilated, and in no department of the factory do the workmen experience inconvenience. In the preparing room, however, there is much dust, but the workmen are accustomed to work in it with a cloth over their mouths.

8. The temperature in the working room at the time of my inspections was as follows:—

On the 14th April 1886 = 91°
" 4th Sept. " = 92°
" 22nd Dec. " = 81°

9. Wherever it was necessary or possible the machinery has been fenced and protected either by iron rails or by iron and wooden shields, so as to effectually prevent all chances of accidents. The calender rollers have been protected with small guide rollers for the purpose of conducting the cloth to the in-running side of the upper calendering rollers. These are now worked safely and with ease.

10. Two accidents were reported during the year under report—

(1) On the 28th July, at 11-30 A.M., a pariah named Nidigathi Asirigadu while employed as a hammerman, a chip of metal fled from the head of a rivet which was being cut out of an old steam boiler, and caused a cut on the upper part of his chest.

(2) On the 14th August last, at about 4 P.M., a washerman named Seelayerrayya, who had been employed as a rover, got the thumb of his right hand bruised in opening the wheel-guard of No. 1 roving and cleaning the wheel-gearing while in motion.

Both these men were sent to the dispensary at Bimlipatam for treatment and soon recovered. They both returned to work on the 9th September 1886.

11. Certificates of age were granted to all young persons employed in the factory, in Form C appended to the rules, by the civil apothecary in charge of the municipal dispensary at Bimlipatam, who was appointed * as certifying surgeon under section 5 of the Factories Act XV, 1881. A file of these certificates is maintained as required by Rule XIV.

* *Vide* Notification, dated 31st May 1886, No. 240, published at page 565 of the *Fort St. George Gazette*, dated the 18th June 1886.

13. Registers D and E are not kept in the factory, as no children under twelve years of age were employed.

14. A notice of daily working hours has been maintained in Form "F" as required by Rule XVI, as also a list of holidays, both of which were hung up in a conspicuous part of the office room in the factory.

15. Printed copies of the rules and forms, with Telugu translations thereof, have also been kept on the outer walls of the office room.

16. I inspected many of the young persons employed in the factory, and they looked healthy and cheerful.

17. Registers A and B, required to be kept in my office under Rule 2, have been duly maintained.

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

Enclosure.

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 the district.	Name of factory.	Number of persons employed at the end of the year.				Machinery whether fenced or not.	Ventilation and sanitation.
		Adults.		Juveniles.			
		Men.	Women.	Males.	Females.		
Vizagapatam	Gunny Factory at Chittivalasa.	316	90	257	12	Fenced or otherwise protected.	Good.

No. 290.

Endorsement on the above.

Submitted to Government for information. The two accidents mentioned were not of a serious nature.

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

Vizagapatam,
5th March 1887.

(Signed) V. JAGANNADHA ROW,
District Magistrate.

From Colonel T. WELDON, Commissioner of Police, to the Chief Secretary to Government, dated Madras, 31st March 1887, No. 31.

I have the honor to forward the report of the Deputy Commissioner of Police as Inspector of Factories for the year 1886.

2. The only noticeable accident was an explosion in the sizing room of the "Carnatic" Mills. The cause remains unknown. Fortunately no one was hurt and comparatively little injury done to the building.

3. The Deputy Commissioner notices with regret the cessation of employment formerly given to juveniles at these mills. I understand, however, that some of the mills propose to revert to the former practice to a limited extent.

Enclosures.

From S. D. SIMPSON, Esq., Deputy Commissioner, to the Chief Commissioner of Police, dated Madras, 29th March 1887, No. 28.

I have the honor to report that the factories in the City of Madras were visited by me during the calendar year 1886, as stated below:—

Name of factory.	Date of inspection.	Number of times examined.
Buckingham Mill Company	26th Mar., 30th Aug., and 29th Dec. 1886.	3
Carnatic Mill Company	26th Mar., 30th Aug., and 29th Dec. "	3
Gun Carriage Factory	11th May, 8th Sept., and 21st Dec. "	3
Gunpowder do.	10th May, 25th Sept., and 16th Dec. "	3
Southern India Spinning and Weaving Company.	18th Jan., 25th Mar., 13th May, and 15th Nov. 1886.	4
Harbour Works	14th Apr., 25th Aug., and 29th Nov. 1886.	3
Public Works Workshops	17th Apr., 24th Aug, and 10th Dec. "	3
The Arsenal	20th Apr., 25th Aug., and 2nd Dec. "	3
Madras United Spinning and Weaving Mill.	10th May, 31st Aug., and 17th Dec. "	3
Massey's Iron Foundry	20th May, 27th Aug., and 25th Nov. "	3
Cement Works	20th May, 27th Aug., and 25th Nov. "	3

2. *Accidents.*—I append a list of accidents. There were 31 accidents this year against 38 last year. Statement A shows in detail the number in each factory, how they occurred, and the extent and description of the injury in each case. It will be seen from this statement that the injuries sustained in all but four cases were trivial, and that none proved fatal. There was, however, an accident in the Carnatic Mill which, but for the explosion occurring roofwards, would certainly have proved fatal to some eight persons.

In the sizing room of this mill, there are two sizing machines. Each machine had two cylinders made of copper and are used for drying purposes. The dimensions of the cylinders are—diameter 6 feet and 4 feet, respectively, and length 92 inches.

On the morning of the 27th of December 1886, while it was yet dark in the room, these machines were at work and being attended to by the two natives (sizers) in charge of them and six assistants (coolies). It is said that all of a sudden, without any apparent cause or any warning, a cylinder of one of the machines burst on the uppermost side or perpendicularly and knocked out of the wall four large framed glass windows, which were about 15 to 18 feet, off the ground, and also caused the companion cylinder to collapse. There were six persons close by at the time, but only one of them got slightly cut in the foot.

The barrel or drying surface of the cylinders are, as I said before, made of copper, the metal being one-sixteenth of an inch in thickness. The flanges, with patent ring, clasped joints and longitudinal stays, being made of wrought iron and the axles of cast iron.

The cylinders are worked at a pressure from 10 to 14 lb. That at which they are tested in England is not known, but their indicators register 20 lb. to a square inch.

By the arrangement of the safety or blow-off valve, the pressure at the time of the explosion could not possibly have exceeded 14 lb. per square inch. The man in charge says that he was working at 10 lb. pressure and no more, and can give no explanation as to the cause of the accident. The manager can only surmise that a weight of some kind must have been carelessly placed on the safety valve by one of the natives in the room.

I have examined the copper barrels and can find no trace of a flaw anywhere. These cylinders are not made by the makers of the machines, Messrs. Howard and Bullough, nor is it known who made them, but I am told that they are generally made by Lang Bridge Aurington, Lancashire, for Messrs. Howard and Bullough, and are tested by hydraulic power before they are sent out to this country. At the time of the explosion, the cylinders had been in constant use since September 1885.

3. *Children.*—The Buckingham and Carnatic Mills, while still retaining children formerly on the registers as stated in my report for the year 1884, object to employing such young hands. During the year 193 (183 boys and 10 girls) children applied for employment but were refused admission, as the medical officer certified them to be under 12 years of age.

In 1882, when the Factory Act came into operation, there were 73 children in all registered in the different factories; the following statement shows exactly how they stood year by year since then:—

Statement showing the number of children employed in Mills from the year 1882.

No.	Name of Mill.	Years.					
		1882.	1883	1884.	1885.	1886.	
1	Southern India Spinning and Weaving Mill ..	21	..	..	..	..	
2	Madras United Spinning and Weaving Mill ..	12	* 12	..	..	..	* Discontinued from 1st July 1883.
3	Buckingham Mill	40	54	79	22	8	
4	Carnatic Mill	..	130	81	39	24	

It will be observed from the above that the Ráyapuram Mill (Southern India Spinning and Weaving Company) ceased to employ "child" labor in 1882, the Choolay Mill (Madras United Spinning and Weaving Company) in 1883, and the Buckingham and Carnatic Mills (which are worked by European managers and are under the care and direction of Messrs. Binny and Co.) in 1884. Some of the retained children having since attained age (12 years) have been transferred from the juvenile to the adult register. There now remain only 31 boys and 1 girl who are allowed the usual holidays during the year and are well cared for.

As I said in my report for 1884, I regret very much the discontinuance of employing children particularly in the Buckingham and Carnatic Mills. Since that year no less than 740 children, as per margin, have been rejected, who, if employed, would have been kept off the streets and been a help to their parents. There can be no doubt whatever that boys well trained turn out good workmen and are more amenable to mill regulations than undisciplined adults taken from the city.

1884	210
1885	337
1886	193
Total ..	740

4. The following table shows the number of persons employed at the end of the year and the state of the factories in regard to sanitation and ventilation:—

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.	Male.	Female.		
Buckingham Mill Company	585	71	8	..	Yes ..	Good.
Carnatic Mill Company	697	51	23	1	Do. ..	Do.
Gun Carriage Factory	428	1	..	..	Do. ..	Do.
Gun Powder Factory	96	8	..	..	Do. ..	Do.
Southern India Spinning and Weaving Mill ..	464	16	..	..	Do. ..	Do.
Harbour Works	730	79	..	..	Do. ..	Do.
Public Works Workshops	233	2	..	..	Do. ..	Do.
The Arsenal	533	..	..	..	Do. ..	Do.
Madras United Spinning and Weaving Mill ..	488	11	..	..	Do. ..	Do.
Massey's Iron Foundry	232	..	..	..	Do. ..	Do.
Cement Works	194	89	..	..	Do. ..	Do.

Statement A.

Name of factory.	Date of accident.	Name of person injured.	Nature of injury.
Buckingham Mill	10th Mar. 1886 ..	Vencatsamy *	Right arm broken and cut over right eye by his carelessness in getting his arm round a strap pulley.
Do.	12th June ,, ..	Cundasamy	Injury to second finger of right hand caused by putting it in a pinion of roving frame.
Do.	16th July ,, ..	Thoorgappa	Slight injury to first finger of right hand by putting it on catch.
Do.	1st Aug. ,, ..	Soobroyen *	Right wrist broken by putting his hand in squaring band pulley.
Carnatic Mill	14th Mar. ,, ..	Shaik Adam	Hurt on thumb of right hand by putting it betwixt the wheels while in motion.
Do.	28th Mar. ,, ..	Moonesamy	Slight hurt on first finger of right hand by putting it in the frame while working.
Do.	1st April ,, ..	Fuckroodeen	Slight hurt on second finger of right hand by putting it in the winding frame while working.
Do.	15th April ,, ..	Ponnusamy	Slight hurt on second and third fingers of right hand by putting them betwixt two wheels while in motion.
Do.	23rd Aug. ,, ..	Ponnan	Hurt on left hand by putting it in the sizing frame.
Do.	24th Aug. ,, ..	Patchay	Hurt on second finger of left hand by putting his finger while working in the frame.
Do.	24th Nov. ,, ..	Mahomed Sheriff ..	Hurt on his left finger by putting his hand between ticker-in and seed-rollers while working in carding engine.
Do.	27th Nov. ,, ..	Ponnen	Slight hurt on his right leg caused by explosion of two sizing cylinders.
Gun Carriage Factory ..	18th Jan. ,, ..	Moonesamy	Injured the first joint of second finger of right hand while working at one of the circular saws.
Do. ..	28th Jan. ,, ..	Abdul Kadir *	Thumb of left hand smashed while working at the shearing machine.
Do. ..	5th Mar. ,, ..	Moonesamy	Injured toe of right foot by the fall of a log while working at the saw pit.
Do. ..	16th Mar. ,, ..	Rungian	Injured left foot by the fall of a bar of iron.
Do. ..	6th Sept. ,, ..	Alagappen	Injured his right thumb while sawing timber.
Do. ..	20th Sept. ,, ..	Veerasamy	Injured on third and fourth fingers of left hand.
Do. ..	16th Oct. ,, ..	Mahomed Ayath ..	Injured his left knee while tieing a wheel.
Gun Powder Factory ..	2nd Feb. ,, ..	Soobroyan	Scald caused by hot water from a steam-pipe falling on the back of the man while disconnecting the pipes.
Do. ..	2nd April ,, ..	Kotappah	Wound caused by his fingers coming in contact with a barrel containing saltpetre.
Do. ..	21st June ,, ..	Veerasamy	Sprain (back) while lifting up a barrel of powder.
Do. ..	14th Dec. ,, ..	Chengalaney	Contusion on the right hip caused by the fall of the mixing hopper on his hip.
Southern India Spinning and Weaving Mill.	25th Nov. ,, ..	Mauree	Two fingers slightly bruised.
Do. ..	7th Dec. ,, ..	Moonesamy *	Left arm (broken) severely injured by lap machine while removing cover while in motion.

Statement A—*continued.*

Name of factory.	Date of accident.	Name of person injured.	Nature of injury.
Public Works Workshops.	25th Feb. 1886 ..	Vencatachellam ..	Second and third fingers of right hand have been slightly hurt by the fall of a cast iron furnace door.
Do. ..	14th Sept. ,, ..	Sithadoo	Cut on the calf of right leg caused by a knife slipping when cutting leather.
Madras United Spinning and Weaving Mill.	26th April ,, ..	Govinduragulu	Wounded over the right ear and right side of head by striking against a mule while working.
Do. ..	26th July ,, ..	Abdul Rhyman ..	Laceration over the right hand palm by letting his hand catch in a carding machine.
Do. ..	12th Sept. ,, ..	Mungapathy	Cut and laceration on the middle two fingers of his right hand.
Do. ..	3rd Oct. ,, ..	Samen	Wound on the right thigh caused by his recklessness while working in a mule.

From H. P. GORDON, Esq., District Magistrate, South Arcot, to the Chief Secretary to Government, dated Cuddalore, 31st March 1887, No. 28.

I have the honor, with reference to G.O., No. 625, dated 5th May 1883, Judicial, and paragraph 6 of G.O., No. 193 of the 9th February 1882, to forward herewith reports * (with enclosures) from the Temporary Deputy Magistrate and Deputy Magistrate on General Duties on the working of the Factories Act XV of 1881 during the calendar year ending 31st December 1886.

* Temporary Deputy Magistrate's No. 27, 5th Feb. 1887, and No. 38, 22nd Feb. 1887. General Duty Deputy Magistrate's letter, No. 3, 9th February 1887.

2. The only factories falling within the definition of the Act which were in working order in this district during the year under report were those at Nellikuppam and Tiruvennanallúr. The latter establishment, which was damaged by the floods of November 1884, was under repair during a considerable part of the year.

3. The factory at Nellikuppam was inspected by the then Assistant Magistrate (Mr. Morris) and the Temporary Deputy Magistrate on three occasions during the year. The sanitary condition of the building is reported to be good and it is well ventilated. Two accidents occurred in this establishment during the year as shown below :—

(1) On 23rd January 1886, one Chinnaswami Pillai got the palm of his right hand torn by the wheel of a machine. He was treated in the Manjakuppam dispensary and was cured.

(2) On the 18th August 1886, one Peria Muthukristnan, who was drunk at the time, accidentally fell from the top of a tower, 25 feet high. He died on the way to the hospital.

4. The factory at Tiruvennanallúr was twice inspected by the Deputy Magistrate, and he reports that the sanitary condition was good on the first occasion but unsatisfactory on the second. From further information supplied by the Deputy Collector, it would appear that the condition of the factory on this occasion was untidy rather than insanitary. The ventilation in the witzel room is said not to be good. There were no accidents in this establishment.

5. Statements called for in G.O., No. 1760 of the 7th July 1885, are submitted.

Enclosures.

From M.R.Ry. T. V. NARAYANASWAMI AIYER AVARGAL, Temporary Deputy Magistrate of South Arcot, to the District Magistrate of South Arcot, dated Cuddalore, 5th February 1887, No. 27.

I have the honor to submit my report on the working of the Factory Act No. XV of 1881 during the year 1886.

2. The Nellikuppam Sugar factory and Spirit distillery belonging to Messrs. Parry and Co. was the only factory that was brought to register during the year under report. This factory was inspected by me and my predecessor, Mr. Morris, on three occasions as noted in the margin, and I submit herewith an extract from the registers A and B. As a rule, boys and girls, below the prescribed limit of age, were not employed in this factory, and consequently no registers in the Forms D and E (Rule XV) and no file of certificates in Form C (Rule XIV) were maintained during the year.

By Mr. Morris.	*By Temporary Deputy Magistrate.*
1. 12th March 1886.	3. 22nd December 1886.
2. 8th August 1886.	

* *Vide* statement enclosed.

3. There were two * accidents during the year under report as detailed below :—

(1) On the 23rd January 1886, one Chinnaswami Pillai came in contact with the wheel of a machine with which he had no business to interfere and got his right palm torn. The injured man was immediately removed to the municipal dispenaary at Manjakuppam where he was treated and cured.

(2) On the 18th August 1886, at about 8 P.M., a man named Peria Muthukristnan, aged about 45, who was working on the top of a bone tower, 25 feet high, situated within the factory compound, accidentally fell down and received serious wounds and some of his bones were fractured. The man was immediately sent to the hospital, but died on the way. During the inquiry held by my predecessor, it was found that the man was under the influence of liquor and it was in consequence of this that he fell. Due notices of these accidents were given to this office by the Factory Agent as required by the rules.

4. The sanitary condition of the factory premises has been good, and the building has been provided with proper means of ventilation.

5. There were no prosecutions during the year.

Statement showing the accidents occurred in the Factory at Nellikuppam registered under the Factories Act XV of 1881 during the year 1886.

Name of the factory, village and taluk.	Date of occurrence.	Name of the persons injured and his age.	Nature of injury and how caused.	Steps taken towards the injured persons and the result of it.
Factory of Messrs. Parry and Co. at Nellikuppam, Cuddalore taluk.	23rd January 1886, at 11 A.M.	Chinnaswami Pillai, aged 25.	Palm of his right hand torn when coming in contact with a wheel of a machine.	The man was removed to the dispensary at Manjakuppam where he was treated and cured.
Do.	18th August 1886, at 8 P.M.	Peria Muthukristnan, Pariah, aged about 45.	Received serious wounds all over his body, and bones fractured by falling down from a bone tower which is 25 feet high.	The wounded was being removed to the hospital, on the way he died, and the body was handed over to the relatives.

From M.R.Ry. T. V. NARAYANASWAMI AIYER AVARGAL, Temporary Deputy Magistrate of South Arcot, to the District Magistrate of South Arcot, dated Cuddalore, 22nd February 1887, No. 38.

With reference to your docket, No. 46, dated 19th instant, I have the honor to subjoin a statement in the form referred to in paragraph 4 of the letter from the Deputy Commissioner of Police printed in G.O., No. 1760, dated 7th July 1885, with regard to the factory at Nellikuppam :—

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.		Juveniles.			
		Men.	Women.	Male.	Female.		
		Sugar Factory.					
South Arcot district.	Messrs. Parry and Co's Sugar factory and Spirit distillery at Nellikuppam.	341	43	..	..	Fenced.	Good.
		Spirit Distillery.					
		35	..	..	..	Do. ..	Do.

From M.R.Ry. K. SUBBA RAO PANTULU GARU, Deputy Magistrate of South Arcot, to the District Magistrate of South Arcot, dated Jambai, 9th February 1887, No. 3.

I have the honor to submit my report on the working of the Factory Act in this division for 1886.

2. Of the two factories in this division, the Sugar factory and Arrack distillery of Messrs. Parry and Co. at Tiruvennanallúr was registered in 1881, but the other Sugar factory at Eruvalíput has not been registered as the daily coolies employed there are considerably below 100 in number.

3. The Tiruvennanallúr factory was twice inspected by me during the year, and a statement showing the state of the factory, with reference to sanitation and ventilation, is herein enclosed. For several months the buildings were under repairs. I have also twice inspected the Eruvaliput factory and I found the buildings in repairs.

5. No accidents have been reported to me during the year.

A *nil* statement is herewith submitted.

Form B.

Register of Inspection of Factories.

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.				Machinery whether fenced or not.	Ventilation and sanitation.	Remarks.
				Adults.		Children.				
				Men.	Women.	Male.	Female.			
1	Sugar factory at Tiruvennanallúr.	E. J. G. Gill, Esq., Agent.	12th Apr. 1886.	22	..	..	..	Important 3 machines are fenced.	Ventilation good except in witzel room. Sanitation good within the premises of the factory. The compound is covered by the refuse of the crushed cane, &c.	As a rule children below 12 are not employed. There are some machines which will have to be fenced if children are employed. D and E Registers are always *nil* for want of children empioyed on work.
			30th Nov. 1886.	39	4	..	..	Machines are not at work.	Sanitation not satisfactory.	Building under construction. The well by the indigo vat is in need of parapet wall, as bandies pass by it with much unsafety.

From M.R.Ry. L. A. SWAMI IYER AVERGAL, Temporary Deputy Magistrate, to the District Magistrate of Bellary, dated 28th February 1887, No. 93.

I have the honor to submit the annual report on the working of the Factories Act XV of 1881 for the calendar year 1886, together with the prescribed statement.

2. The only factory registered under the Act in the division is the Spinning Mill of Messrs. A. Sabapathy Mudalliar and Co. at Bellary. It was inspected by me on the 20th August 1886, and there were no more inspections during the year on account of constant changes of officers. I was in charge of the division from 22nd March up to 17th September during the year.

3. The number of people employed in the factory on the date of my inspection was 266 as detailed below:—

Men	214
Women	52
	266

They looked healthy and strong.

4. A file of certificates granted by the Civil Surgeon has been maintained.

5. No registers in forms D and E are kept, as no children are employed in the factory.

6. Notice F, in vernacular and English, is suspended at the entrance of the spinning rooms. The working hours were from 6 A.M. to 6 P.M., with a recess of half-an-hour for food and rest. The boys are permitted fifteen minutes rest for every four hours for recreation. Two Sundays in a month are allowed as holidays in addition to the Hindu and Muhammadan festival days.

7. Ventilation and sanitary arrangements are good.

8. The machinery is well fenced. There were no accidents and no prosecutions during the year.

Enclosure.

Name of the district.	Number of factory in register A.	Locality where situated.	Name of factory.	Number of persons employed on dates of inspection. Adults. Men.	Adults. Women.	Children. Males.	Children. Females.	Date of inspection.	Machinery whether fenced or not.	Ventilation and sanitation.
Bellary ..	1	Bellary..	Bellary Spinning and Weaving Mill.	214	52	..	..	20th Aug. 1886.	Yes ..	Good.

No. 386.

Endorsement on the above.

Submitted to the Chief Secretary to Government, Madras.

2. None of the cotton presses of Adóni and Bellary towns which were struck off the register in 1884 and 1885 have again become liable to inspection.

3. Due care shall be taken that inspection is duly performed in the current year. I joined the district in December 1886.

(Signed) H. M. WINTERBOTHAM,
Ag. District Magistrate.

11*th April* 1887.

From J. LEE-WARNER, Esq., District Magistrate, Tinnevelly, to the Chief Secretary to Government, dated Tinnevelly, 20th April 1887, No. 358.

In reference to G.O., dated 5th May 1883, No. 625, Judicial, I have the honor to submit my annual report on the working of the Factory Act (XV of 1881) during the calendar year ending 31st December 1886, together with copies of reports from the Joint Magistrate, Head Assistant Magistrate, and General Charge Deputy Magistrate, Tinnevelly.

1. Tuticorin Cotton Press Company (Limited).
2. Cotton Press of Darley, Butler and Co., Tuticorin.
3. Cotton-spinning Factory at Pápanásam.
4. Cotton Press of A. and F. Harvey and Co., Virudupati.

2. There are in all four registered factories in this district, as detailed in the margin, the first two lying in the Joint Magistrate's division, the third in the Head Assistant Magistrate's, and the last named in the General Charge Deputy Magistrate's.

3. These factories have been visited by the respective inspectors during the year under report as shown in the following table :—

Names of factories.	Date of inspection.	No. of times examined.
1. Tuticorin Cotton Press Company (Limited) ..	25th June, 28th October, and 20th December.	3
2. Cotton Press of Darley, Butler and Co. ..	Do. do. ..	3
3. Cotton-spinning Factory, Pápanásam ..	4th June, 3rd September, and 21st December.	3
4. Cotton Press of A. and F. Harvey and Co., Virudupati.	Do. do. ..	3

4. Besides the above registered factories, there are others in the Joint and General Charge Deputy Magistrates' divisions which do not fall within the scope of the Act, as the number of hands employed in each is below 100. However, they also are being visited and watched by the inspectors, to see whether they come within the definition of a "factory."

5. The subjoined statement shows the number of persons employed on the date of each inspection, and the state of the factories with reference to sanitation and ventilation :—

Names of factories.	Date of inspection.	No. of persons employed. Adults. Men.	Adults. Women.	Juveniles. Male.	Juveniles. Female.	Machinery whether fenced or not.	Ventilation and sanitation.
1. Tuticorin Cotton Press Company (Limited).	25th June 1886 ..	..	..	..	..	Properly fenced.	Clean and properly ventilated.
	28th Oct. ,, ..	..	..	..	..		
	20th Dec. ,, ..	..	..	..	..		
2. Cotton Press of Darley, Butler and Company, Tuticorin.	Do. ..	..	..	..	..	Properly fenced except in one place which is slightly dangerous.	Do.
3. Cotton-spinning Factory, Pápanasam.	4th June 1886 ..	247	77	..	..	Securely fenced.	Well ventilated.
	3rd Sep. ,, ..	236	58	..	..		
	21st Dec. ,, ..	240	70	..	..		
4. Cotton Press of A. and F. Harvey and Co., Virudupati.	Do. ..	..	..	..	..	Enclosed by wooden materials.	Good.

6. The number of hands employed in the first two factories at each inspection was unfortunately not recorded by the Joint Magistrate. He has been directed to supply the omission in future reports. He states that the machinery of Messrs.

Darley, Butler and Co. is properly fenced, except in one place which is still slightly dangerous, though something has been done since last report to guard against accidents. He has been directed to insist on the remedying of this. The General Charge Deputy Magistrate, in whose division the cotton factory of A. and F. Harvey and Co. lies, joined the division only in July last after work in the factory had ceased. He has therefore only been able to report that the buildings are clean and in good order, as he did not see the hands at work.

7. No children under 12 years of age were employed in any of the factories during the year under report.

8. Two accidents occurred in the spinning mill factory at Pápanásam—one fatal and the other slight—the particulars of which are given in the 7th paragraph of the Head Assistant Magistrate's report. They were duly reported at the time to the Head Assistant Magistrate, as required by the rules. The other factories were free from accidents.

9. There were no prosecutions under the Act during the year under report.

Enclosures.

From W. M. THORBURN, Esq., Joint Magistrate, to the District Magistrate of Tinnevelly, dated 3rd March 1887, No. 44.

I have the honor to submit my annual report on the working of the Factory Act for the calendar year 1886.

2. The two factories noted below were under supervision and they were inspected by me on the dates entered opposite each :—

(*a*) Tuticorin Cotton Press Company (Limited)—June 25th, October 28th, and Dec. 20th.
(*b*) Darley, Butler and Company's—June 25th, October 28th, and December 20th.

3. No children under 12 were employed in the factories, nor was there any accident during the year.

4. The premises of both factories are kept clean and the buildings properly ventilated. The machinery is properly fenced, except one place in Darley, Butler and Co.'s, which is still slightly dangerous, though something has been done since last report to guard against accidents.

5. Nothing else calling for remarks was observed.

6. The other cotton presses at Tuticorin (1) of Messrs. Volkarts Brothers, (2) of Messrs. Gaddam, Bythal and Co., and (3) of Mr. Henry Kemp Welch, were visited by me. As the number of persons employed in each was below 100, no steps were taken to bring them under the Act.

From E. C. RAWSON, Esq., Head Assistant Magistrate, to the District Magistrate, Tinnevelly, dated 20th January 1887, No. 8.

I have the honor to submit my report on the working of the Factory Act (No. XV of 1881) in my division for the year 1886.

2. No new factory was started in this division during the year. The only factory existing is the cotton-spinning mill belonging to the Tinnevelly Mills Company at Pápanásam, reported on in my last report.

3. I have inspected this factory on three occasions during the year, viz., on the 4th June, the 3rd September, and the 21st December.

The number of persons working in the mill on the dates of inspections were as follows :—

—	Adults.		Children.		Total.
	Male.	Female.	Male.	Female.	
4th June	247	77	..	..	324
3rd September	236	58	..	..	294
21st December	240	70	..	..	310

4. No children under 12 are employed at this factory now.

5. The rules, schedules, &c., are conspicuously posted in the factory as required by the rules.

6. The machinery is securely fenced, and the building is well ventilated.

7. Two accidents occurred during the year; one fatal and the other a slight one. The latter accident occurred on the 17th February 1886, when a lad aged 14, named Govindan, put his arm between two tin rollers, while they were in motion; the result being that the skin of his right arm was partially scraped off.

The fatal accident occurred on the 9th November, when a workman named Agasthian, aged 18, was caught by a belt while unloosing it from a shaft, and carried up to the ceiling, whence he fell on the floor. His left arm was broken and he sustained internal injuries, which resulted in his death in the Ambásamudram hospital on the 12th November. The accident was entirely caused by the fault of the deceased, who had no business to touch the strap at all.

8. These accidents were reported to me at once, as required by the rules.

9. No prosecutions were instituted during the year.

10. The condition of the mill is in every way satisfactory.

List of Accidents that occurred in the Factories in the Head Assistant Magistrate's Division, Tinnevelly, during 1886.

Name.	Caste.	Sex.	Age.	Nature of injury.
1. Govindan	Hindu.	Male.	14	Skin partially scraped off right arm.
2. Agasthian	Do.	Do.	18	Left arm broken and internal injuries which proved fatal.

From R. ANANTARAMA AIYAR, General Charge Deputy Magistrate, to the District Magistrate, Tinnevelly, dated 7th February 1887, No. 36.

I have the honor to submit my report on the working of the factories in my division during the year 1886, together with the usual statements.

2. I joined this division in July last. On all the three occasions I visited Virudupati, there was actually no work carried on in the factories, the cotton season having been almost over, and I could not therefore inspect any of them while work was going on, but merely saw the buildings, &c., which were found to be in good condition. No accidents have been reported to have occurred during the year under report.

Accidents in the year 1886 in Factories in the General Charge Deputy Magistrate's Division, Tinnevelly District.

Name of factory.	Date of occurrence.	Name of person injured.	Nature of injury.
1. Southern India Press Company, Limited, Virudupati	None reported during the year.		
2. A. and F. Harvey at Virudupati			
3. A. and F. Harvey at Sátur			
4. Cotton-pressing Company (Limited), Messrs. Dymes and Co., Factory, Virudupati.			

List of Factories in the General Charge Deputy Magistrate's Division, Tinnevelly District, for the year 1886.

Name of district.	Name of factory.	Number of hands employed.	Number of accidents.	Machinery whether fenced or not.	Ventilation and sanitation.
Tinnevelly District.	1. Southern India Press Company, Limited, Virudupati.	Twenty-four, being average number employed throughout the year.	No accidents reported during the year.	Fenced by walls ..	Good.
	2. A. and F. Harvey at Virudupati.	Thirty-seven, being average number employed throughout the year.		Enclosed by wooden materials.	Do.
	3. A. and F. Harvey at Sátur.	Seventeen, being average number employed throughout the year.		Fenced	Do.
	4. Cotton-pressing Company (Limited), Messrs. Dymes and Co., Factory, Virudupati.	Ten, being average number employed throughout the year.		Fenced by walls ..	Do.

Order—dated 21st May 1887, No. 1090, Judicial.

The foregoing reports on the working of the Factories Act (XV of 1881) during the year 1886 show that the number of factories falling under the provisions of the Act remained unchanged during the year; the total number was 24, as in the preceding year, half being situated in the districts and half in the city of Madras, as shown in the appendix.

2. On the whole, the reports now submitted are satisfactory and call for remark in two cases only.

3. In Tinnevelly, it is observed that the Joint Magistrate omitted on each of his inspections to note the number of hands employed. Such an omission, in regard to one of the most obvious points which should engage an inspecting officer's attention, is inexcusable. The defective fencing of machinery at Messrs. Darley, Butler and Co.'s factory should not be allowed to continue. No information is required by Government regarding factories not falling under the Act. The General Charge Deputy Collector will, therefore, be instructed not to include such factories in his returns in future, and his attention should be directed to the remarks made in paragraphs 4 and 6 of G.O., 31st May 1886, No. 1435. The retention in the register of the Cotton Press at Virudupati is irregular if, as shown in one of the enclosures to the Deputy Collector's report, the average number of hands employed was only 24.

4. In the South Arcot returns, it seems doubtful whether the sugar factory at Tiruvennanallúr is rightly retained on the register. The number of hands found at work on both the days of inspection by the Deputy Collector was considerably under the figure (100) which would bring the factory within the operation of the Act, but this may have been due to the buildings having been under repair, as stated in the report, during a considerable part of the year. The District Magistrate will state in his next report whether the factory falls under the definition in section 2 of the Act or not.

5. Fifty-eight accidents are reported to have occurred during the year, against 77 in the year previous. The number (7) that occurred in the factory at Aska is unusually large, and probably indicates some want of careful supervision. The attention of the Inspector will be specially directed to this point, and it should be referred to in his next report. It is observed with regret that two accidents proved fatal. In one of these at the Nellikuppam sugar factory, a man was killed by a fall from the top of a tower 25 feet high. It is stated that the accident was due to the man being drunk, and it appears unsatisfactory that a man in a state of intoxication should have been allowed to be at work. In the second case, which occurred at the Pápanásam mill in Tinnevelly, a lad, aged 18, was caught by a belt which he was attempting to unloose from a shaft, and was carried up to the ceiling, whence he fell to the

floor, breaking his left arm and sustaining such severe internal injuries that he died in hospital. The accident is, however, stated to have been entirely due to the deceased's own action in touching the belt, which he ought not to have done.

6. Inspections were generally good in all districts, and fulfilled, as a rule, the prescribed conditions, except in Bellary, where the omission of the Inspector to inspect the single factory on the register more than once during the year is not sufficiently explained. The mill in question is situated in the town of Bellary, and could, without difficulty, have been visited at least the three times prescribed in Rule 7 of the rules framed in G.O., dated 9th February 1882, No. 193. The Temporary Deputy Magistrate who submitted the annual report was in charge of the division in which the factory is situated for six months out of the year, and there is no excuse for his neglect to inspect the mill oftener. The District Magistrate will see that this duty is not neglected in future.

7. The submission of forms A and B by the District Magistrates of Tinnevelly and South Arcot together with the reports of the Inspectors is not required. It will be sufficient if with the list of accidents the statement referred to in paragraph 7 of G.O., 7th July 1885, No. 1760, is furnished.

8. The Deputy Commissioner of Police, Madras, notices with regret the discontinuance of "child" labor in the mills under his inspection, as depriving a large number of children of employment, which would have kept them out of the streets. The same result appears to have followed the introduction of the Act in all parts of the Presidency, and from every district, except Kistna, it is reported that no children under 12 years are now employed. Section 7 of the Act restricts the daily employment of children to *nine* hours and requires certain intervals being allotted for food and rest, and it is probable that these restrictions, which have not met with the approval of mill-owners, and which perhaps cannot be worked without inconvenience, have led to the general discontinuance of "child" labor since the introduction of the Act.

9. Column 4 of the statement showing the results of inspections should only be filled up in cases where children between 7 and 12 years of age are employed; all others should be classed as "adults." The word "children" should be employed, in accordance with the phraseology of the Act, and not the term "juveniles." The use of this in the returns now submitted is inaccurate.

(True Extract.)

Ag. Chief Secretary.

To all District Magistrates.
,, the Public Works Department.
,, the Consulting Engineer for Railways.
,, the Commissioner of Police.

[Appendix.

APPENDIX.

Name of District.		Name of Factory.	Number of hands employed.	Number of accidents.	Machinery, whether fenced or not.	Ventilation and sanitation.
Ganjam ..	Aska ..	Minchin Brothers' Sugar Factory.	Adults 368 Juveniles 48	7	Securely fenced.	Clean and well ventilated.
Kistna ..	Bezváda ..	Government Workshops ..	Adults 185 Juveniles 4	..	Safe ..	Good.
Godávari ..	Dowlaishweram.	Do. do.	Adults 138 Juveniles 66	..	Fenced ..	Do.
Madras ..	Perambúr ..	Railway Workshops	Adults 2,727	5	Sufficiently fenced.	Do.
Tanjore ..	Negapatam ..	South Indian Railway Locomotive and Carriage Shops.	,, 1,573	9	Do. ..	Do.
Vizagapatam.	Chittivalsa ..	Messrs. Arbuthnot and Co.'s Gunny Factory.	Adults 406 Juveniles 269	2	Fenced ..	Do.
Madras ..	..	Buckingham Mill Company ..	Adults 656 Juveniles 8	4	Do. ..	Do.
		Carnatic Mill Company ..	Adults 748 Juveniles 24	8	Do. ..	Do.
		Gun Carriage Factory	Adults 429	7	Do. ..	Do.
		Gun Powder Factory	,, 104	4	Do. ..	Do.
		South Indian Spinning and Weaving Mill.	,, 480	2	Do. ..	Do.
		Harbour Works	,, 809	..	Do. ..	Do.
		Public Works Workshops ..	,, 235	2	Do. ..	Do.
		The Arsenal	,, 533	..	Do. ..	Do.
		Madras United Spinning and Weaving Mill.	,, 499	4	Do. ..	Do.
		Massey's Iron Foundry ..	,, 232	..	Do. ..	Do.
		Cement Works	,, 283	..	Do. ..	Do.
South Arcot.	Cuddalore. ..	Messrs. Parry and Co.'s Sugar Manufact. ry and Spirit Distillery at Nellikuppam.	,, 419	2	Do. ..	Do.
	Vriddhácha-lam.	Do. at Tiruvennanallúr.	,, 32	..	Do. ..	Sanitation not satisfactory, ventilation good except in witzel room.
Bellary ..	Bellary ..	Messrs. Sabapathy and Co.'s Spinning and Weaving Mill.	,, 266	..	Do. ..	Good.
Tinnevelly.	Tuticorin ..	Tuticorin Cotton Press Company.	..	..	Properly fenced.	Clean and properly ventilated.
	Do. ..	Cotton Press of Darley, Butler and Company.	..	..	Properly fenced except in one place.	Do.
	Pápanásam ..	Cotton Spinning Factory ..	,, 309	2	Securely fenced.	Well ventilated.
	Virudupati ..	Cotton Press of A and F. Harvey and Company.	..	..	Enclosed by wooden materials.	Good.

Exd. A. Raitt.

B. No 1611 W dy 24.6.87

No 1612 W dy 15th June 87

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Commd: to
Secretary to
Supty: Engrs: for
his
information.

MW
7.6.87

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Govt. of {1887} Madras.

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Recd. 7/6/87 Encl.

G.O., 21st May 1887, No. 1090.

No 1612 W dy 15th June 1887

MAY.

Factories Act XV of 1881.

Reviewing the reports on the working of the —during the year 1886.

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