Department of Mines, India.

REPORT

OF THE

CHIEF INSPECTOR OF MINES IN INDIA

Under the Indian Mines Act (VIII of 1901)

FOR THE

YEAR ENDING 31ST DECEMBER

1907

BY

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Chief Inspector of Mines in India.



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Chief Inspector of Mines in India.

To

THE SECRETARY TO THE GOVERNMENT OF INDIA,
DEPARTMENT OF COMMERCE AND INDUSTRY.

Dated Calcutta, 1st June 1908.

SIR,

I have the honour to submit the report upon the inspection of mines in British India for the year ending 31st December 1907.

EXPLANATORY INTRODUCTION.

My services having been lent to the Government of India by the Imperial Government, I took charge as Chief Inspector of Mines in India only on 8th January this year. This is therefore a report of work associated with my predecessor Mr. W. H. Pickering, who gave over charge of the Department on 4th September 1907 and returned to England to resume the responsibility of the important inspection district of Yorkshire and Lincolnshire.

Though I have been but a few months in India, the time has been long enough for me to be assured that Mr. Pickering was held in the highest esteem wherever his duties carried him, and he has left the impress of his work and his methods of careful organisation on every hand.

During the four months' interregnum, the Department was in charge of Mr. James Grundy, who has on more than one occasion officiated in this capacity, and whose long services with the Government of India will have terminated before this report is in print.

To prevent misconception, it seems necessary to explain that this is a report relating entirely to the administration of the Indian Mines Act, 1901, and is not a complete statistical review of Indian mining and analogous industries.

No official publication embodying such statistics is at present issued for India, but a review of the mineral production of India was published in 1905 by the Director of the Geological Survey of India for the six years ending 31st December 1903. In future this will appear as a Quinquennial Review. Some statistics relating to mines and minerals appear in the "Financial and Commercial Statistics of British India" published annually by the Director-General of Commercial Intelligence and appear about 12 months after the year to which they relate; and statistics of output of minerals beginning with the year 1904 are also given in the "Records of the Geological Survey of India." Figures for Mysore, where most of the Indian gold is raised, are given in the Report of the Chief Inspector of that Native State, and mineral statistics may also be found in the administrative reports of the various presidencies, provinces and states of India.

This year, for the first time, the Chief Inspector of Mines has been responsible for the collection of the returns for mines under the Act. This will, it is believed, make the statistics of the mines regulated by the Indian Mines Act, 1901, complete and trustworthy and allow a much earlier issue of this report than hitherto.

In some of the Mines Department reports previous to the year 1904 a few statistical tables relating to mines in Native States, and to workings not regulated by the Act, were given, but as it is not possible to obtain accurate figures in time for the date prescribed for the issue of this report, they have been again emitted

It should be remembered in reading the statistics that there must be a considerable output from quarries which are under 20 feet deep; and, owing to the exclusion of such places from the scope of the Mines Act, these figures should not be regarded as a complete index to the productive mineral wealth of the country.

The report is divided into five sections, viz.:-

Section I.—Persons employed.
II.—Output of mineral.

III. - Accidents.

", IV.—Prosecution, discipline and additions to the Act.

.. V.—General Remarks.

Section I.-Persons employed.

During the year 1907 the average number of persons working in and about mines regulated by the Indian Mines Act, was 151,983, of whom 98,824 worked underground and 53,159 on the surface; 96,769 of the persons were adult males, 49,116 adult females and 6,098 children under 12 years of age. Compared with the preceding year an increase of 18 per cent. or of 23,317 workers is shown.

The ratio of increase is slightly greater than in the preceding year and exhibits a very satisfactory state of progress. The figures undoubtedly would have been much larger, had the supply of labour been equal to the demand.

There is every sign that the industry is extending, and the labour difficulty

will probably soon become acute.

It apparently takes very little to frighten the native worker away from the mine, and it will become increasingly important for mine managers to study

the prejudices and customs of those under their charge.

The material at hand is very unformed; labour is not applied to the best advantage; the miner in his working place tears of the coal by sheer force, whereas he might be trained to considerably increase his output by the exercise of skill.

As has been repeatedly pointed out, the industry is still in its infancy, and it requires no great prophetic power to discern that if success is not to lag behind the energy put into the undertakings, supervision must not only be more constant, but also more efficient

Section II.—Output of mineral.

A glance at the tables given in Appendix II will show that there has been a large increase in the output of coal and manganese raised from mines regulated by the Indian Mines Act and a slight decrease in mica, gems and salt. The percentage of increase are:—Coal 15.51, manganese ore 47.

COAL.

The continued increase of coal must be very gratifying to those associated with the commercial aspects of the industry; nearly 1½ million tons more than the preceding year having been raised.

The output was 10,526,468 tons as compared with 9,112,663 in 1906, an increase of 15.51 per cent. Of this 9,993,348 tons or 94.93 per cent. were raised in Bengal, exceeding the output of the preceding year by 1,375,528 tons.

Reference to table 8 in Appendix II will show that the remarkable expansion of the output has enabled India to easily maintain her position at the head of

the coal producing dependencies of the British Empire. If the output from Native States is added India's lead is still more striking.

A comparison with last year's figures will show that the principal increase comes from the Jharia coal-field where the output has gone up over one million tons; and that of Burdwan over 200,000 tons. Pench Valley in the Central Provinces has more than doubled its output, while Burma, which was more or less in the experimental stage, has ceased to produce any coal.

The coal trade of Bengal continued extremely active during the year and as the demand for coal was greater than the supply, high prices were maintained. Many complaints have been made of the difficulty of despatching the output, owing to the irregular and inadequate supply of wagons.

MICA.

The output of mica remains practically the same as last year; although Hazaribagh has materially increased its output, that of Madras has fallen to an equal amount.

MANGANESE ORE.

This valuable commodity shows another substantial and gratifying increase, having risen from 436,442 tons in 1906 to 642,082 tons last year. Of this amount over 496,000 tons come from the Central Provinces, which has increased its output by 170,000 tons. The known manganese deposits of this part of India are found in what is called the Nagpur-Balaghat area, comprising the districts of Chhindwara, Nagpur, Bhandara and Balaghat. This tract of country contains some 3,500 square miles. Although the area is surrounded on three sides, and will in the near future be completely surrounded by main railway lines, few of the mines are provided with direct access to these lines, and some of them are as much as 35 miles distant from them. This drawback has been to some extent mitigated by the enterprise of one of the Mining Companies working within the field. This Company has laid down two narrow gauge tram lines starting from different points on the main line to the south and penetrating to distances of 12 and 30 miles, respectively, within the mining area.

The ore of manganese which is mined in the Central Provinces consists of an intimate mixture of braunite and psilomelane. It is steel grey in colour of fine grain and usually very hard and tough. This latter property is a very valuable one as the mineral has to endure a lengthy transport and many changes of bulk before reaching its destination. Chemically the ore is one of the richest and purest mined in the world. The percentage of manganese varies from 50 to 55 whilst the phosphorous content is low.

The mining of manganese ore in the Central Provinces was first undertaken in the year 1899, when operations were commenced in the Nagpur district. In the following year 35,356 tons of ore were raised, and with the opening out of other deposits in the Bhandara, Balaghat and Chhindwara districts a practically continuous expansion of output has resulted.

The bulk of the ore which up to date has been mined in the field is of the kind known as "boulder ore". This forms the capping of most of the ore beds and has been derived from the disintegration of the bed in situ.

The slopes of the hills containing ore beds are covered by enormous deposits of this nature, varying in thickness from a few to as many as twenty feet.

As a rule the boulders vary from the size of a cricket ball to that of a man's head, but in some cases as at Chickla masses of from 50 to 70 tons weight are found. The majority of the small producers are working on this class of deposit.

From ten to fifteen thousand coolies are employed in the Central Provinces manganese mines. There is no scarcity of labour, but owing to the large number of recently opened manganese and coal mines, and the commencement of work upon a large irrigation project, the rates of wages have advanced fully fifty per cent. within recent years.

For a complete account of the mineralogy and geology of the Central Provinces ores reference may be made to a very able and comprehensive paper on "Manganese in India" by Mr. L. L. Fermor, Transactions, Mining and Geological Institute of India, Vol. I, Pt. 2.

GEMS.

The output of gems from Burma has decreased from 324,410 carats in 1906 to 296,125. The output is entirely from the Mogok mines of the Burma Ruby Mines, Limited. This is the only Company working on a large scale, but there are very numerous mines and washings in the Mogok district worked by Burmans who have hereditary rights. The native worked mines are excluded from the scope of the Indian Mines Act.

GOLD.

In last year's report there was no output to record, but in 1907 4,017 ounces of gold were mined in the Dharwar gold fields.

Work was also carried on in the Nilgiris and Anantapur districts but no ore

was crushed during the year.

During the year my predecessor met Messrs. John Taylor & Sons' (Dharwar) Committee at Kabulayatkatti and discussed with them matters affecting the general welfare of the goldfield. The sanitary arrangements of the villages within the boundaries of the mines were considered to be quite satisfactory. They are supervised by a medical officer who has a qualified assistant and a staff of sanitary inspectors. Every hut is visited daily and the lines are kept scrupulously clean by sweepers employed by the mine owners.

The Wader village just outside the lines was, however, in a most deplorable condition as regards sanitation. This was viewed with grave concern by the Committee; but since that time the encampment has fortunately been broken

OTHER MINERALS.

A considerable increase in limestone is shown while the output of salt has slightly lowered.

The copper mines in the Central Provinces have not yet reached the

producing stage.

Burma has produced 272 cwts. of tin and Baluchistan has worked 771,206 cwts. of chromite during 1907.

Section III.—Accidents.

GENERAL REMARKS.

During the year 1907, at mines regulated by the Indian Mines Act, 1901, there were 105 fatal accidents involving the loss of 122 lives, being an increase of 16 over last year's figure. The reason of the increase is due, as stated in last year's report, to the expansion and activity of the mining industry and to the increasingly difficult and dangerous conditions of mining work.

Of the persons killed 109 were males and 13 females. In addition to these deaths, fatal accidents to 12 persons who were not employed at the mines were reported. A list of these appears in Appendix I and reasons are given for their exclusion from the statistical tables.

The deaths occurring in each mineral working were as follows:—89 in coal; 13 in mica; 4 in manganese; 12 in gold; 3 in ruby; and 1 in salt mines.

Of the persons killed 5 lost their lives by explosions of fire-damp; 57 by falls of roof and side; 21 in shafts; 11 by explosives; 10 by haulage; 6 by other accidents below ground, and 9 on the surface.

The death-rate per 1,000 persons employed works out to 80, being a decrease compared with the figure of 82 for the preceding year which is very

Each fatal accident is briefly described in Appendix I but the following additional remarks and explanations are necessary.

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EXPLOSIONS OF FIRE-DAMP.

Happily, India has so far escaped any great calamity from explosions of fire-damp, but during the year there were three accidents which resulted in the death of five persons. They each happened on a Monday morning, and all might have been avoided by care and forethought.

As was pointed out last year, explosive gas is certain to be far more troublesome in the near future when the workings will have reached a greater depth from the surface; and no pains must be spared to make those whose duty it is to examine the mine and safeguard the lives of the workpeople familiar with the properties of this subtle foe.

Some of the coals undoubtedly produce fine dust, and, with the improved ventilating currents, and increased speed of the newer methods of haulage, this

factor will have to be taken into consideration.

In many mines with unworked pillars, the galleries cover a large area, and in these, away from the direct current of air, dust may steadily settle and await the time when some concussion, caused either by a blown out shot or slight explosion of fire-damp, may arouse this latent power and repeat the experiences which have been gathered at such a tremendous cost in older mining countries.

The details of the three explosions which occurred are as follows:—No. 1 in the list—This happened at No. 6 Pit, at the New Beerbhum Coal Company's Borrea mine in No. 4 seam. The manager states that fire-damp had never previously been seen in this pit. However, the two men on going to their working place in a six feet square gallery found some fire-damp with their naked lights near the coal face and it exploded, with fatal results in one case.

A properly directed current of air would have prevented such a result. No. 2 in the list took place at No. 5 Pit at the Equitable Coal Company's Dishargarh coal mine in the Dishargarh seam. The place had not been worked for thirteen hours, and the evidence seems to show that it had not been properly examined in the meantime. Deceased was working in a gallery, and although the seam is 13 feet thick, owing to a length of floor coal being left on, his working place was only 5 feet high.

Owing to the fact that the face of the coal was 28 feet beyond the current of fresh air, there was nothing to remove any accumulation of gas that might occur. Apparently the first time the deceased had occasion to lift his open lamp near the roof some fire-damp exploded and burnt him with fatal results.

The officials examine the mine with safety lamps, and it is always difficult to disprove a statement that any particular part of a mine was so examined.

As the Inspector investigating the accident pointed out, the sirdars should be compelled to leave some mark in each working place which will show that

they have actually visited it.

No. 3 in the list happened at the Bengal Coal Company's Laikdih mine in the Laikdih seam. About 6-30 that morning two shots of dynamite were fired in the roof in a rise gallery at the junction of two roads. As a result, a few feet of the bratticing which directed the air current was broken down. Before this was repaired, fire-damp evidently collected near the roof higher up the gallery at a point where some roof coal 12 inches thick had been left on. At 9-30 A.M. three men went to work at this roof coal, and it is more than probable that one of them placed a naked light so near the roof that it ignited the gas, resulting in an explosion which ultimately caused their deaths.

This is a mine in which safety lamps of a good type are used throughout the whole of the workings; the lock of the lamp however is an ordinary screw which is never very effective and easily lends itself to being tampered with.

There is no actual proof as to how the gas ignited in this case, but very little doubt really exists that one of the men exposed the flame by taking off the lamp bottom. One lamp was found with a loose screw, and another without any screw-lock whatever.

Safety lamps become such only in name unless they are carefully used; and in all cases, before being taken into the workings, they should be examined by

some one appointed for the purpose.

Where the necessity of using bratticing is recognised, it should also appeal to an official that when this bratticing has become deranged, it is of special

importance to carefully examine the place afterwards. Forty feet of brattice was blown down by the explosion, and there were present in this case all the elements of a very serious disaster.

FALLS OF ROOF AND SIDE.

Accidents from this cause resulted in the death of 57 persons, an increase of 6 upon the previous year; 36 of the deaths occurring in coal mines.

Twenty-nine of the deaths were from falls of roof, and twenty-eight from

falls of side.

No. 4 in the list.—This took place at Babu R. B. Chatterji's Chota Dhemo coal mine, and was due to lack of proper supervision. Deceased was loading coal in his working place beneath some roof coal which was overhanging for 5½ feet, when the latter fell upon him: his left leg was so badly mutilated, and he was otherwise so bruised, that he died the same day. The sirdar appears to have told a mistry to set any props that might be required, but gave no definite instructions about either supporting or getting down the roof in this place. His inspection should have shown him the necessity of having the roof coal taken down, and he ought to have given instructions accordingly.

No. 28 in the list happened at the Khas Jharia Colliery Company's Khas Jharia mine in a seam which is 26 feet thick. Deceased was ordered to cut down some roof coal and had apparently been at work for three hours when some of it came away suddenly and injured him so severely that he died in a few minutes.

The place was so high that he had to stand upon a stool, and doubtless he was not able to perceive any signs of fracture or detect any movement in time

to get out of danger.

The fall was unusual in that it assumed the shape of an inverted basin about 8 feet diameter at the base, and 2 feet 9 inches high. These "potholes" as they are often called in English mining are most difficult to discover, even by careful sounding.

If the roof coal has to be taken down, it would be much safer to do so before the floor coal is taken up, when the miners would not only have something

firm to stand upon, but could more easily see what they are doing.

No. 29 in the list happened at the Central Kurkend Coal Company's Central Kurkend mine, and is a case where a miner worked contrary to orders, and by so doing was the cause of his wife being killed.

This man had left his proper working place, and, according to thes irdar in charge, had gone beyond a fence and was getting coal off another pillar. sirdar says he ordered him to come to the proper side of the fence, as he noticed a slip in the roof running along the side of the gallery.

The man did not obey, and before the sirdar had gone many yards away, some roof coal measuring, in an irregular shape, 13 feet long by 12 feet wide and 4 feet thick, fell out up to the slip and injured the man and unfortunately

killed the woman.

If the sirdar did know of the slip, and especially as the man was breaking the rules by being beyond a fence, he ought to have insisted upon the man at once withdrawing.

Supervision can never be very effective without discipline, and the sooner those officials who are brought most closely into confact with the worker appreciate this the better.

No. 30 in the list occurred at the Jharia Colliery Company's Bhaga mine. The pillars were being extracted in a 24 feet seam, and some powder shots had brought down a quantity of coal from the corner of one pillar. The deceased men were supposed to be filling out this coal. After the accident it was found that a large quantity of coal had fallen from a pillar at the opposite side of the gallery to that from which the coal was blown down, and two of the five men working were caught by it and killed.

It is possible that the former pillar was somewhat crushed by weight, and perhaps the blasting may have further shaken the coal; but the most probable solution is that the deceased men were trying to get down some coal from the wrong pillar, and it came away suddenly and caught them. When visited by an official at 2 P.M., all was in order and the accident happened at 3 o'clock.

As soon as it was known, the place was visited by the officials, but the bodies had already been removed from under the coal by the other workmen. A lamp however was found beneath the new fall.

The evidence in this case is most difficult to obtain. Of the three surviving men, one was not close at hand at the moment and immediately he knew of the accident he went out of the mine with the two women who assisted them.

Another man disappeared altogether, and the third, who either could not or would not give any clear explanation of the occurrence, died two days later

from excessive drinking.

No. 31 in the list happened at the Acme Mica Company's Chirki mine, Kodarma. The mine had originally been worked by shafts, but some new owners were opening it out as a quarry. Thirty-four feet down the quarry a trench was excavated 9 feet wide at the top. While ten men were at work in the trench, a mass of material from the quarry side some 20 feet above the trench suddenly fell upon them. Five were got out alive, but the other five were unfortunately suffocated. Altogether about 2,000 cubic feet of material, consisting of soft red gravel and soft decomposed granite came away—the fall measuring 25 feet long.

One of the owners was standing by and saw the material slide off and shouted out to warn the men, but they had not time to get out of the trench.

The side of the quarry was nearly vertical and to this the fall is due. It ought to have been sloped back in steps.

This was pointed out to the owners, who immediately recognised the

necessity of it and agreed at once to have it done.

No. 34 in the list happened at the Central India Mining Company's Miragpur manganese mine. The deceased man had been set to work near the top of one side of a cutting but had taken it upon himself to work on the boulders at the opposite side where he could more easily get some ore.

He had been prising off some ore from the slightly overhanging side of the cutting which was only 7 feet high when about 2 feet of the upper portion fell

over and killed him on the spot.

This upper portion consisted of a thin ridge which had been left at the edge of the cutting for the purposes of measurement; it ought not to have been

left in a dangerous condition.

No. 45 in the list happened at Messrs. J. L. Banerji & Co.'s New Surataur coal mine and was the distinct result of one of the many cases of pillar robbing. The deceased was found beneath a large piece of coal, measuring 14 feet by 14 feet by 2 feet 6 inches, which had come off the side of a pillar. His pick was by him. He had on another occasion been fined for being at this particular place which was fenced off. He was so seriously bruised by the fall that he died in the mine.

No. 47 in the list happened at the Kuordih Coal Company's Kuordih mine. Two young men were at work as miners for the first time in this mine, and it seems doubtful that they had had any previous experience of coal-mining They were at the time actually not at work in the place intended, if the contractor's sirdar can be relied on.

They had undercut some coal as far as a joint and one of them was wedging it down. Owing to several joints a piece about 1 ton in weight probably came away more quickly than they anticipated and in falling it struck the un-

fortunate man and nearly tore his arm off.

The arm was amputated at the Asansol Hospital but the man appears to have been removed to his home, two days' journey by road, before he had sufficient strength, and he died on the way. The men had been at work six hours when the accident happened. With proper supervision it would be impossible for men to work for hours in the wrong part of the mine.

SHAFT ACCIDENTS.

The number of accidents in shafts last year was 21 or one more than the previous year. The number is too great; but the addition of only one is not unsatisfactory when it is remembered that much more coal is being drawn from shafts than formerly.

Winding ropes require the greatest care and attention, possibly more so than

any part of mining equipment.

Only ropes specially made for the purpose should be used for winding and whenever a defect is discovered, it should be remedied without delay. Recapping should take place at stated intervals, three or four times a year, even if the rope appears in first class condition. It affords an opportunity for seeing the internal condition of the rope; it renews that part of the apparatus which is subjected to the greatest strain and it also alters the position of the rope upon the winding pullies where stresses are set up and wear takes place which are calculated to shorten the life of the rope.

I would utter a word of warning to all concerned in providing ropes for winding shafts. A length cut off a rope ordered and manufactured for the purposes of haulage is not only a very unsatisfactory proceeding, but involves great risk, and those responsible for such a practice may have the truth brought

home to them in a very unpalatable way.

In No. 52 in the list a $\frac{s}{4}$ inch crucible steel rope was used as a winding rope in a bucket pit with an ascending and descending rope. On this occasion the full bucket had just reached the surface when the rope broke and the bucket dropped to the bottom of the shaft. The deceased had come to the pit bottom during the absence of the onsetter and signalled the empty bucket down; unfortunately the full one came down and fell upon him and killed him.

Examination of this rope disclosed the fact that it had fractured just within the cap where there was evidence of some corrosion and undoubtedly two days previously three broken wires had been detected. The management however thought it was perfectly safe for the load which was only 12 cwts. at

the most, and had decided to recap it on the following Sunday.

These ropes were not used for raising or lowering persons or the responsibility upon the officials would have been very great, but in any case a grave

error of judgment was committed.

In No. 54 in the list which took place at the Bengal Coal Company's Rajhara mine a pump was being refixed at the bottom of one of the pits. Yar Mahomed was the fitter in charge of the work. To save himself the trouble of walking down the incline he detained coolies and ordered them to lower him by means of a winch. The winch had been taken to the pit to be used there after necessary repairs were made to it. It was not fixed and the rope on the barrel had been used for haulage. It was badly worn and seriously corroded internally. A very casual examination would have shown that it was unfit for use. This man was accustomed to examine ropes and machinery at the colliery but nevertheless he was foolish enough to trust himself on this very unsafe rope worked by an unfixed winch which had no catch and was out of repair.

He was safely lowered but when he was being drawn up the rope broke about 15 feet from the top of the shaft and he fell to the bottom striking the pump khalasi. Both men were killed on the spot. The rope was $\frac{7}{8}$ inch diameter and had been originally used for haulage. It had been on the winch a long time without being used. It had become badly corroded and it was not intended to be used at all. A new galvanised wire rope was provided at the pit so that persons could be raised or lowered with coolies. It seems extraordinary that a man who was an experienced fitter should have trusted his life on a rope, which was obviously unsafe, to save himself the trouble of walking

a few hundred yards.

No. 56 in the list which happened at the Indian Collieries Syndicate's Jamadoba mine is a case where a pump was being raised in a shaft partly filled with water by means of two ropes each attached to a winch and the lifting power obtained by means of pulley blocks.

The blocks were attached to the ropes by means of clamps, which required

moving as the ropes were hauled in.

Before a clamp was taken off to readjust the position of the blocks. another

clamp was firmly fixed to hold the rope tight and maintain the weight.

At the time of the accident, the deceased, who was a fitter, was altering the clamps upon one rope and had apparently not satisfied himself that the second pair which would then carry the weight were tight. While doing this the rope slipped through the second pair and so threw the weight of the pump and three ranges of pipes 275 feet long upon the other rope.

The strain was too great for it and the weakest point of the connection being a hook, this broke and the whole of the weight rapidly slipped awaythe pump dropping to the bottom of the shaft some 50 feet below. Unfortunately the deceased being close to the edge of the shaft was caught by the rope

near to him and dragged into the pit and killed.

In operations of this kind where heavy weights have to be lifted by two separate sets of tackle which require adjustment, one set alone must be capable of sustaining the weight, for to attempt to do otherwise is to court disaster as in this case.

No. 57 in the list is an illustration of the unnecessary risks men will run

in the performance of their work.

Deceased had released a small pulley from the top cross beam of the head gear by standing at the junction of two diagonal iron cross ties. He was about to come down when he slipped and fell into the shaft below and was drowned.

If a ladder had been used instead of attempting an acrobatic performance,

the accident would not have happened.

The manager in this case attributed the occurrence very largely to the fact

that it was Thursday, which was an unlucky day.

No. 68 in the list is of interest as showing the necessity for special rules for sinking pits. A few men were working in the bottom of a sinking pit, 230 feet deep, when two or more stones fell from the sides and from such a height that they killed one man and injured another. This shaft was entirely unlined and the rules were not infringed, as under General Rule 2(g), the shaft was examined once a week. By a coincidence the shaft was stated to have been examined just before the accident, and even after it, the officials state that they could not discover where the stones had come from.

Every sinking pit should be examined at the very least once a day and

when without lining the examination should be very thorough

No. 69 in the list illustrates a type of accident which I have already seen repeated since I arrived in this country. A cage holding nine men and women was being lowered from the pit bank level at the surface when in passing the ground landing, 24 feet below, it caught at one end against the edge of the landing where there was only $2\frac{1}{2}$ of clearance and tilted up. One man fell out to the bottom of the shaft 300 feet below and was killed.

In this case the conductors were wire rope with two to each cage and on

the outside of the cage only.

Provision should be made for having some form of rigid guides past all landings of this kind.

EXPLOSIVES.

There were 11 deaths due to explosives during the year, two only being in sinking pits. In one of these, No. 72 in the list, the accident was due to

striking a cartridge of dynamite in dressing the sides of the shaft.

The cartridge may have been left at the bottom of a hole, having failed to detonate when the remainder of the charge had exploded or it may have been the only cartridge put into a certain hole which missiired. Several holes were fired at one time and it was admitted that there were seven missiires and then two missiires in refiring the seven. With proper care and materials this wholesale missiring should not occur.

At a mica mine, No. 75 in the list, three men were sitting in a shed on the surface where they had about 6 lbs. of country powder in an open iron

 \mathbf{vessel}

They were smoking and it is hardly surprising that the powder exploded and they were all injured, one so seriously that he died two days afterwards.

Proper closed boxes were to be provided after this occurrence.

ACCIDENTS BY WATER.

No. 82 in the list happened at the Sitarampur Coal Company's Narsamuda mine and is unusual from the fact that a boy and girl were scalded so severely by hot water in the mine that they both died on the following day.

These children were employed bailing out water from a working place in

a gallery during the night time and were working alone.

About half past six o'clock in the morning as the sirdar was approaching a steam pump he heard a scream, and on reaching the place found both the

children in a shallow sump into which the pump exhausted. The boy had fallen in first and the girl after in trying to get him out. It appears that they had been idling and hearing the sirdar coming were anxious to get out of his way; they went past the pump and a bamboo fence and unfortunately fell into

The pump attendant was just returning to the pump, having been clearing the hot water.

mud away from the suction pipe.

It is very undesirable for young children to be set to work by themselves in a mine, and they certainly should not be employed in this way during the night time.

No. 83 in the list happened at the New Manbhum Coal Company's Ganzlatar mine. It was a type of accident that has undoubtedly occurred before and will most certainly happen again unless mine owners take some common sense precautions.

It is only necessary to walk along the outcrops of some of the coal seams near a river bed to gather what will happen in the rainy season. In this case three men quite unauthorized went into an incline on a Sunday night to fill dust as they knew there were empty tubs available. The survivor said it was raining hard and they might as well be in the mine as anywhere. They had worked for some time and then gone to sleep. They were rudely awakened by feeling water about them and found themselves in the dark. One man reached the bottom of a shaft and his shouts attracted the attention of the manager, who had been sent for as the river running close to the inclines was rising at a rapid rate. Before the man was drawn up the water had risen 9 feet in the pit. He did not know where his companions had gone to; and they were unfortunately both drowned.

The Katree river runs within some 50 feet of the first incline, the two being separated by a narrow bund 10 feet high, made of soft earth. As the water in the river rose it undermined the bund and also worked around the end

of it and rushed down the inclines.

It was extremely fortunate that no more persons were in the mine at the

Discipline must be a very uncertain quantity when men can wander into

a mine like this without any one knowing anything about it.

In last year's report my predecessor drew the attention of coal owners to the danger of mines becoming water-logged. Apart from the danger to life, they are not only a source of loss to the owner involving a sacrifice of coal and heavy pumping charges, but, where the water is allowed to remain, they become a standing menace to any workings to the dip.

A sketch of the place of accident is given at the end of the Report.

SUFFOCATION BY GASES.

There were two accidents due to this cause during the year. One happened at a coal mine in Baluchistan, No. 84 in the list. Four men were working in a level within some 20 feet of old workings which had been pierced a day or

They began to feel faint and their lights went out. The man in charge ordered them to go away and they seem to have stampeded. One of them fell as the road was rising at an angle of 45° and before he could recover himself he became unconscious. When the other men recovered somewhat they went back but found their fellow workman was dead.

The men were apparently working out of the air current and doubtless some carbon dioxide gas slowly issued from the old works and filled up the low place in which they were working.

It is the old story of insufficient ventilation or the current of air not

directed to where it was required.

The other case occurred while sinking a staple pit in the Standard Coal Company's Benahir mine, Jharia, No. 85 in the list. This pit was being sunk from one seam to another, and it had actually penetrated the coal in the lower seam.

No one had been down the shaft during the day and a sinker named Gope was lowered at 11 o'clock at night. As soon as he landed at the bottom his light went out. He shouted up for the lamp to be drawn out and relighted: this was done. The sirdar in charge of the gang made several attempts to send a light down, but each time the light went out. It then seems to have occurred to him to call down to the man. He got no answer, but thinks he heard him breathing hard. He next came out of the mine and called the manager. The manager soon arrived and sent a light down once more. Although the pit was 34 feet deep, the light was extinguished when it had descended only 10 feet.

Water was thrown down for about an hour, then a descent could be made.

Of course the poor man was dead.

It is strange that it did not occur to anyone in authority that carbon dioxide gas is formed in mines, especially in badly ventilated mines, and that its specific gravity causes it to flow to the lowest point.

This gas was doubtless steadily pouring into this pit when no one was

there and nothing to cause the slighest current of air.

It may also have come from the seam at the bottom.

An official of some kind should have been the first to descend when a fresh

shift of men was going in.

It is never safe to descend an unventilated pit without first trying it with a light, and a sinking pit like any other part of a mine should be efficiently ventilated.

This was an inexcusable loss of life.

HAULAGE ACCIDENTS.

There were ten deaths due to underground haulage accidents, one less

than last year.

No. 89 in the list is another case of a person being in a main haulage road while the train was in motion. Four women were sitting at a junction in the road, when the assistant manager passed by. He says he told them as he always did, in such circumstances, to go away. Apparently they did not do so. A train of 4 tubs, two of them holding ashes for ballast, was being lowered down this road which dips at a rate of 1 in 12, when the coupling broke and allowed three of them to run amain.

They went at a rapid rate for some 375 feet, then became derailed and upset and caught one of the women killing her on the spot. The tub which broke and caused the runaway is made entirely of steel and consists of an underframe made of $\frac{3}{16}$ plate supporting a body which carries about 13 cwts. of coal. The coupling chain and hook is attached to the upper end of the steel frame by means of a plate with two rivets.

An examination of the edges of the broken plate showed that the material had become very coarsely crystalline and brittle, probably owing to the jarring

which it had sustained while in daily use.

This method of attaching the coupling chain to the tub is most unsuitable. In this particular case the frame was weakened by two old rivet holes previously used for a different style of attachment. The type is being abandoned.

Greater familiarity with methods of underground haulage both on the part of officials and workpeople should obviate many of the accidents under

this heading.

SURFACE ACCIDENTS.

There were nine deaths from surface accidents, being the same number

as in the previous year.

In No. 99 in the list, some coolies had been lifting a mast with a hand crane and had stopped for food. One of them sat upon the crane handle and doubtless moved backwards and forwards.

At any rate the pawl slipped upon the ratchet and the weight caused the handle to revolve: in doing so it struck the man on the head and killed him.

The ratchet was found to be worn and quite unfit to be relied upon. A pipe, it seems, was usually used as a sprag but no one had put it in. A fitter who left the men shortly before ought to have seen that it was in.

No. 101 in the list, is a story that must have been told many times in the history of Indian coal mining. I venture to hope that the time has come

when such a description may cease to be chronicled and shall become a relic

of the barbarous past.

It happened at Messrs. Agabeg Brothers' Jogta coal mine where No. 14 seam was being worked 30 feet in thickness. Here the coal was worked according to the usual custom, being cut up into pillars by galleries driven at right angles to each other. The roof above the seam is 4 feet thick of hard but jointy stone and above that rotten stone and earth. Both the coal and strata were broken up by partings, facings and joints. Some of the galleries were 20 feet wide and 30 feet high.

The sequence of events seems to have been as follows:-The high pillars were full of breaks and partings; very frequently coal broke away from them and was filled up and sent out of the mine. At other times the pillars became so dangerous that parts had to be pulled off and taken away. So the galleries became wider and the pillars thinner and less and less support was given

to the roof.

The roof would then become strained and would slip at the joints, putting still more pressure upon the ever weakening pillars. On the day of the accident, warnings like this to a very serious degree had been given for some three hours but no one seems quite to have known what was about to happen. Two officials had just come out of the mine about 4 o'clock in the afternoon when no workpeople were in the mine, and as they reached the mouth of the incline a blast nearly carried them away. An area of surface ground measuring some 316 feet by 262 feet suddenly collapsed and carried with it four buildings.

In one were six men and two boys; all got out but one boy, and unfortunately his loss was not mentioned to the assistant manager who was at hand until next day. In another a girl 12 years old was lying ill. Both these

children were killed.

The managing proprietor and the manager were both absent on this day, and the officials who were at the mine did not appear to have grasped what was the absolute consequence of their methods of working.

Section IV.—Prosecutions and additions to the Act.

(a) ADDITIONS TO THE ACT.

During the past year three important rules were added to the Act by Notification No. 10014-100, dated 4th December 1907. They were issued for the purpose of safeguarding railways. Under these rules the Owner, Agent or Manager of any mine is compelled to give notice whenever he intends to extend his mine workings either beneath the railway itself or any point within 50 yards of it.

Other Notifications No. 3952-36, dated 10th May 1907, and No. 7861-36, dated 19th September 1907, refer to a form for the Annual Return which has to be furnished to the Chief Inspector of Mines and to the District Magistrate, and the form which shall be used in notifying accidents, respectively. Copies

of these Notifications will be found in Appendix IV.

(b) PROSECUTIONS.

In the report for last year only one prosecution was recorded and the judgment delivered in the case was printed in the Appendix for reference. An appeal was lodged, and the case heard by the Judge of Burdwan after the inspection report was printed. The appeal was dismissed.

In 1907 there were two prosecutions and both for failing to give notice of accidents, a fatal accident in one case and a serious accident which ultimately terminated fatally in the other. In the latter the manager of a coal mine was convicted under Section 22 (2) (b) of the Mines Act and fined 10 rupees.

In the former the manager of a mica mine was convicted under the same section of the Mines Act and fined 40 rupees.

Section V.—General Remarks.

UNDERGROUND FIRES AT CHARANPUR AND BANBAHAL COLLIERIES.

On the 29th March 1907 a serious fire, fortunately unattended by loss of life, broke out in the old workings of Messrs. Apear & Co.'s Charanpur mine, Raniganj coalfield. The mine has been long established and more than 100 acres of the Sibpur seam (here 18 feet thick) have been cut up into rectangular pillars. There are 15 shafts, all connected underground, and their depth varies from 50 to 300 feet. The present chief working area covers about 45 acres and is served by Apear and No. 18 pits. It is separated from the rest of the mine by an igneous dyke 40 feet in thickness. Four connections had been made through the dyke. The positions of the pits and dykes and the arrangement of

the ventilation are shown on the plan given at the end of the report.

The fire originated in the old area at a point about 200 feet from the dyke. It is supposed to have been caused by the accidental ignition of a pile of tramway sleepers. The flames spread so rapidly that it was not possible to deal with the outbreak by other means than isolation. Pits Nos. 17, 19, and 21 became upcasts and vomited forth flames for several days to a height of 150 feet. It was at once recognized that the old area was doomed and efforts were concentrated upon the prevention of the spread of the flames to the new or Apcar pit area. After two days of very hard labour, temporary dams of sand and brick, 10 feet thick, were erected in the four openings through the dyke (a sketch of one of the dams is given at the end of the report). All men were then withdrawn from the pits, and the work of checking the fire by stopping the air inlets commenced. Some of the shafts were plugged up by throwing down earth from the surface, whilst others were scaffolded over so as to act as safety valves in the event of an air blast caused by a collapse of roof. Two days later a heavy fall took place and the air blast demolished the scaffolds, but failed to blow out the dams in the dyke openings. After the replacement of the scaffolds the work of reinforcing the temporary dams was commenced from the Apcar pit side This was done with firebrick and cement in sections, 5 feet thick. By the 10th of April permanent dams ten feet thick were completed, and on the following day the shafts in the old area were completely sealed by filling or by scaffolds. About a week after this a thermometer lowered through one of the scaffolds registered a temperature of 205° F. A month later it had fallen to 154° F., and since then there has been a gradual fall of temperature, the reading in March 1908 being under 100° F.

This serious fire will not have occurred in vain, if some of the lessons taught by it are learnt by the managers and colliery owners in India, and

proper steps are taken to remedy the dangers.

An underground fire may be caused by spontaneous combustion; by the careless handling of lights; by electrical appliances; by shot firing; or by gas or dust explosions. The liability of fires originating from these causes will increase as the workings become more extensive. Fires are certain to occur and the question "how are they to be isolated or put out?" is a very pertinent one. The fact that the workings at Charanpur were divided into four main districts by dykes enabled the fire to be conquered. Without these natural damming places, the most strenuous efforts would not have saved Apcar pit.

At the same time it was most unfortunate that these natural barriers should not have been taken advantage of to more completely divide the mine.

A glance at the plan will show that these dykes were pierced in too many places, and the openings were much too large. The risk, the time and the expense would all have been lessened had the workings been laid out upon a more scientific plan.

In considering the inherent dangers of Indian coal-mining, it is necessary to clear our minds of any prejudices due to experience in other countries. The Indian conditions are very different from those which obtain in other coal-fields. The fire dangers only need to be considered in this report. The extraordinarily strong roof over the seams allows wide galleries to be driven to the full height of the very thick seams, and the practice has been to cut very

large coal areas into pillars by such galleries. If the pillars crush out or are burnt out, the roof will not fall until a very large area is unsupported. When the fall takes place, an air-blast is inevitable. Except in a few isolated mines, it has not been the practice to divide the workings into districts by leaving ribs of coal. In such conditions, the only damming places would be in the galleries, perhaps 20 feet high and 15 feet wide. A dam of such an area, unless of enormous thickness, would burst under the impact of an air-blast. In any case it would be impracticable to make gas-tight dams in such large galleries in a hurry. Therefore, the only alternative in the case of fire in many Indian collieries would be to stop the pit tops or fill up the shafts. The conditions at the tops of many shafts make fixing scaffolds very difficult, and filling the pits with earth is a very slow process where the insets are say 20 feet high. Shafts are very numerous and interconnected over large areas, in many cases there being no boundary ribs between mines worked by different owners. Thus, a fire might involve the closing of a group of collieries; and the closing might be permanent if falls extended to the surface. Fire will spread with marvellous rapidity in Indian coal mines because the small local falls of roof which do much to check the spread of fires in other countries are absent. When falls occur in a fire area they will produce air-blasts which will shoot burning gases in all directions, and extend the fire to distant workings. Fortunately provisions against these dangers can easily be made by dividing the areas into districts and panels with ribs of coal between each district and panel. All the galleries cut through the ribs should be small, say not more than 8 feet wide and 8 feet high, and dams should be put in them as soon as coal working in the district or panel is finished.

The principal lessons to be learnt from the fire may be summarised :—

(1) The importance of working coal in panels or districts which can be readily isolated from the rest of the mine.

(2) Pit insets to be made of a reasonably small size. Some are 20 feet high and 15 feet wide.

(3) The galleries to be made lower and narrower at places where ventilating stoppings are likely to be required.

(4) The strict prohibition of the use of torches or the lighting of fires underground.

Other important considerations are :-

(1) Managers being prepared to reverse the air-current at short notice.

(2) The advisability of increased supervision during the night shift.

This fire emphatically drew attention to the fact that none of the appliances, tools and materials required when fighting fire, gas, or water in collieries are kept at any of the mines in the Raniganj and Jharia coalfields, and that little reliance can be placed upon native subordinate officials in times of difficulty and danger. Coal-mining in Bengal is rapidly extending and becoming more strenuous. To elaborate the great increase in the dangers due to this would be to expound the obvious. The dangers are patent to every intelligent observer. If each colliery kept appliances it is certain they would in most instances be incomplete and not in order when required. The cheapest and most efficient plan would be to establish rescue stations at suitable centres in the coalfields where the appliances could be kept and where the managers could meet from time to time to learn their use. This would also help to establish that esprit-de-corps which induces managers at home to offer their services to neighbouring collieries in times of serious accidents.

The most suitable places for the stations would be Sanctoria, Charanpur, Jharia, and Sijua where the mining instructor gives his lectures. Store-rooms

could be built near the lecture-rooms.

The account of this fire would be very incomplete, if mention were not made of the part played by the officers of this Department while efforts were being made to save the mine.

Mr. Simpson, the Inspector of Mines in charge of No. 3 Circle, was very quickly on the ground after the outbreak, and the operations which were so effective in preventing the total loss of the mine, were very largely due to his initiative. Mr. Pickering arrived at the mine two days later and immediately

threw himself very heartily into the work, treating it as though he was personally responsible for the success of the operations. Both these officers remained at the mine until the 12th April. Mr. Grundy and Mr. Adams were also there for a few days, each rendering all the assistance in his power.

It must be remembered that there were at one time as many as 200 men

in the mine putting in the temporary dams.

Another fire which occurred at Babu Jagannath Marwari's Bunbehal mine, Raniganj coalfield unlike that just described, was neither due to the same causes nor so destructive to property.

The seam here is 14 feet thick and is worked by means of five shafts and

one incline: two of the shafts, to the dip, are water-logged.

On Saturday the 13th July 1907 smoke was first seen on the surface issuing from the fracture of a subsidence, and three hours later smoke was visible in the air issuing from No. 3 Pit and incline. The next day large volumes of smoke poured from the fracture and from No. 1 shaft. Steps were then taken to close down the mine and fill the fractures. Nos. 1, 2, and 3 Pits and the incline were filled with earth so as to cover the galleries, and water from neighbouring tanks was lead through trenches into No. 6 Pit and into a fracture. By the 16th the smoke had ceased issuing from all the openings except from one cavity in the fracture. On the previous day a considerable area had subsided.

It appears that the pillars of coal had been weakened to such an extent that a creep quickly set in. There must also have been a considerable amount of dust accumulated in the old workings. Under the action of the creep and the admission of air through cavities caused by subsidence, coal which had been undergoing slow chemical decomposition, generating heat, received a stimulus by the addition of oxygen, and spontaneous combustion resulted.

Water was allowed to fill up the mine and put out the fire and also prevent

further subsidence.

Cases have occurred during the year where subsidences have again been the means of allowing large quantities of water to get into mines, to the imminent danger not only of the mine immediately concerned, but also mines to the dip of it.

As was pointed out in the report last year, the water in the outcrop mines is likely to become a serious danger and difficulty when the deeper mines are worked

Either large barriers of coal will have to be permanently left or expensive pumping plants maintained. The matter is sufficiently serious to engage the attention of mine owners in Bengal and I would urge them to take it into consideration.

SAFETY LAMPS.

In connection with the use of safety-lamps the following Circular was sent out during the year to most of the principal collieries. It will repay careful perusal:—

(1) A serious explosion of fire-damp recently happened in an Indian colliery causing the deaths of several miners. Safety lamps were the only lights allowed or used, and it is probable that the gas was fired by a lamp which had been illegally unlocked or by the flame passing through a gauze which had been carelessly allowed to be fouled with oil. This accident, which would have become a serious disaster if the place in which it occurred had been dry instead of being very wet, has again drawn attention to the fact that at most Indian collieries the arrangements for the locking and examination of safety lamps (when used) are far from satisfactory. I, therefore, wish to make the following suggestions for your consideration.

(2) Locking.—The old fashioned screw locks generally used are very inefficient. They are frequently out of order, and, at the best, the lamps fitted with them can be readily opened with an easily improvised key. A very simple and effective method of locking lamps is by means of lead rivets upon which a letter or other device can be impressed when the lamp is locked. Such a method is now largely used in England, and it has the great merit of preventing the

opening of the lamps by any unauthorised person without detection.

(3) Examination of safety lamps.—In addition to the examination by the lamp-man who delivers the lamps to the miners, it is desirable that the lamps should be examined by some qualified person before they are taken into the mine to ascertain whether they are securely locked and in a fit condition for use. The officials when making inspections of the mine during working hours should also know the condition of the safety lamps.

(4) Cleaning lamps.—The lamps should be cleaned and stored in a place

where oil is not likely to come in contact with the gauzes.

(5) It is desirable that a few safety lamps should be kept constantly fit for use in an emergency, even at mines where open lights are allowed.

MINING EDUCATION IN INDIA.

Continued progress has been made in mining education in Bengal. The Mining Instructor, Mr. W. T. Griffiths, commenced the regular course of lectures in the coalfields in November. Four centres were fixed as before, two in the Raniganj and two in the Jharia coalfields.

The names of 358 students are upon the registers and the average attendance

at each lecture to the end of the year was about 30.

Many of the holders of certificates of competency under the Indian Mines Act have attended these lectures and doubtless their numbers will increase.

Information relating to the lectures will be found in Appendix III, Table

No. 5

The number of students taking the Mining Course at Sibpur College under Professor Roberton during the session 1907-08 was thirteen, of whom five will sit for the Diploma examination in April 1908. These students all attended the camp of Mine Surveying and Practical Mining, which was pitched at Gaurangdi during November and December 1907. A good sign is the demand in the coalfields for passed students, which is considerably greater than the supply. All those who obtain diplomas this year have positions with good prospects assured to them, and those too who may fail to secure the diploma have been spoken

The new practical mining laboratory is now under way. The Professor of Mining, in consideration of the conditions of mining in Bengal, has designed the practical laboratory work with a special view to coal, particularly washing, briquetting and coking, in which lines there is no doubt it will be most profitable for the students to specialise. Meanwhile they will assist in the erection of the laboratory, and the fitting of such machinery as has arrived.

In last year's report mention was made that elementary education in the mining districts is in a very backward state. In the Giridih coal-field a serious

attempt has been made for many years to educate the children.

In a presidential address which I had the honour of delivering a short time ago to an Institute of Mining Engineers, I ventured to sketch the conditions of an ideal colliery. Amongst these conditions I predicted that boys, after passing the elementary school, would be drafted into classes for technical education and as part of their instruction would be allowed the use of the colliery shops with electrically driven machinery. At the same time they would be receiving a small salary, and the best boys would rise most quickly to the best paid positions.

I am glad to acknowledge that I have found this condition of things existing in India. The school I visited at Giridih was an object lesson of what can be done for the native by native teachers, and is extremely encouraging for the

future.

MINING AND GEOLOGICAL INSTITUTE OF INDIA.

This Institute again made good progress during the year. The total membership of all classes at the end of the year 1906 was 173, and at the end of 1907 it was 224, being an increase of 51 members. The Government prize for the best paper written during the year was awarded to Messrs. W. H. Pickering and R. R. Simpson for a paper entitled "Fighting a colliery fire," which was a description of the methods employed by the authors in putting out a serious underground fire which occurred at a large colliery in the Asansol District.

The maps which have been made for the members of the Raniganj Map Committee have been printed and sent out to individual members of the Committee in order that they may put down information upon them.

The annual dinner, which took place during the annual meeting of the Institute at Calcutta, was attended by His Honour the Lieutenant-Governor of Bengal as principal guest, and was altogether a large and successful gathering.

The Institute is still young and those who are responsible for its management must see that methods are adopted which will make only for its

There have been several excellent papers read to the members during the year, but their value is considerably lessened by inadequate discussion. chief value of a paper lies in the contributions which it draws from the members; and even the youngest may have had experience which will add to the sum of knowledge. If the Institute is to live this must be borne in mind.

MINING BOARD OF BENGAL.

Only one meeting of the Mining Board was held during the year. At that meeting the Board approved of the draft rules framed under Section 20 (2) (v) of the Indian Mines Act for the protection of Railways on lands in the vicinity of mines, and suggested a simple code of rules for regulating the working of mines other than coal mines.

A meeting fixed for November was postponed on account of the sudden death of the chairman.

BOARD OF EXAMINERS.

During the year 1907 the Board was constituted as in the previous year; Mr. Heslop however acted for six months in the place of Mr. Turnbull on leave. The Board held 16 meetings during the year; Mr. Pickering being President for the first 13, and Mr. Grundy was appointed and acted as such at the last 3 meetings.

For Service Certificates, there were 88 applications, and certificates were granted in 90 instances. The increase is due to there being some cases which had not been disposed of in the previous year.

Certificates of Competency were granted to 28 applicants who were

possessed of English Certificates of a similar class.

The examination which was held at the nd of January 1907 was conducted by the local Examining Board, the members of which were the same as on previous occasion. Forty-six candidates appeared, and 28 obtained Certificates of Competency.

Another examination was held on 2nd December 1907 andwas conducted Messrs. E. C. Agabeg and R. J. Browne (non-official members) and Mr. G. F. Adams (official member) who acted as Secretary. Sixty-two candidates appeared at this examination, of whom 31 obtained Certificates of Competency.

THE EDWARD MEDAL.

In Appendix III, Table No. 10, will be found a reprint from the "Gazette of India" of the 21st December 1907, containing the intelligence that His Majesty the King-Emperor desires to recognise and distinguish the many heroic acts performed by miners and quarrymen who endanger their own lives in saving or endeavouring to save the lives of others from perils in mines or quarries.

Only those intimately connected with mining operations know the risks

which encompass the worker underground.

Perils by fire, water, deadly gases and the dreaded explosion of fire-damp repeatedly find their heroes; whose deeds in the darkness of the mine so often remain unchronicled and unacknowledged.

His Majesty's thoughtfulness in providing this new decoration has met

with the greatest enthusiasm wherever mining is carried on.

The first "Edward Medal" was bestowed upon a man with whom I am personally acquainted, a Deputy in a Yorkshire Colliery.

Brave deeds have been done in Indian mines, and the coveted decoration

may some day adorn the neck of the native miner.

OFFICIAL DUTIES.

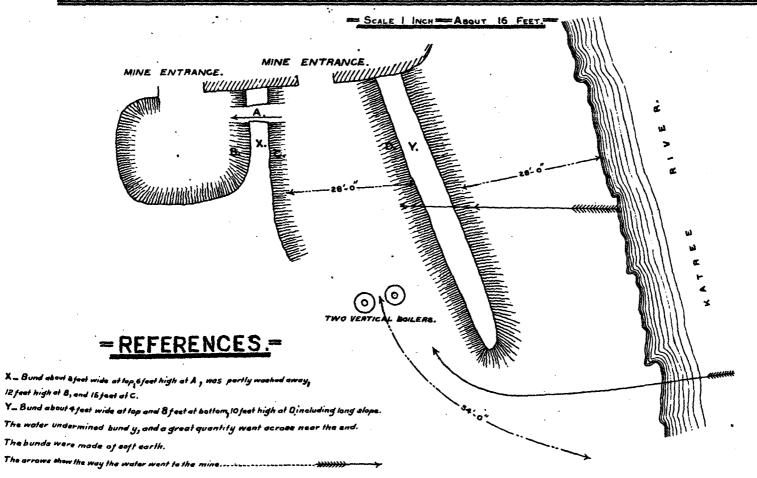
There was no change in the personnel of the staff during the year, and a list of the inspection circles will be found in Appendix III, Table No. 9.

The work of the Inspectors by no means diminishes but on the contrary extends with the expansion of the mining industry. A very large portion of their time is taken up with enquiries under the Land Acquisition (Mines) Act, and these enquiries increase year by year.

> I have the honour to be, SIR, Your most obedient servant,

J. R. R. WILSON, Chief Inspector of Mines in India.

- FLOODING OF THE GAZLITAN MINE. BY WHICH 2 MEN WERE DROWNED ON THE 5# AUGUST 1907.-



P. C. MANDAL.

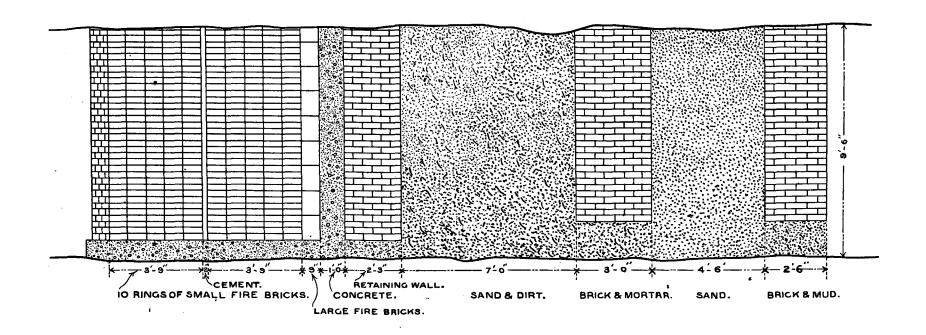
Head Braftom -.

CHARANPUR COLLIERY SHOWING THE POSITIONS OF THE FIRE DAMS AND THE COURSE OF THE VENTILATION.

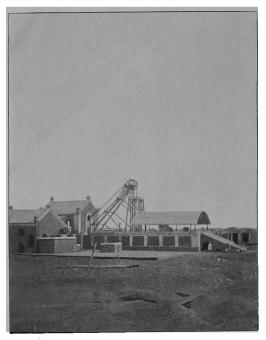
CHARANPUR COLLIERY.

SECTION OF FIRE DAM C.

= Scale | INCH=3 FEET. =



CHARANPUR COLLIERY.



No. 17 Pit before the fire.



Pits Nos. 17, 19, & 21 during the progress of the fire.



No. 17 Pit during the progress of the fire.

APPENDIX I.

Fatal Accidents, 1907.

Serial num- ber.	Date and hour of accident.	Name and situation of mine.	Name of owner.	Name, sex, age, and occupation of person killed.	Name of mineral worked.	Cause of accident and remarks.
						<u> </u>
		EXPLOSION	S OF FIRE-DA	AMP-(5 deaths).		•
1	29th April, 2 P.M.	Borrea Mine, Sitarampur P. O., Burdwan, Bengal.	New Beerbhum Coal Co., Ld.	Bistu Roy, (m.), 25, Coal-cutter.	Coal .	The deceased and his mate were going to their ordinary working place, which was about 20' beyond a dyke, when close to their destination some fire-damp exploded and burnt them both, from the effects of which Bistu died eleven days later. See Report, page 5. Inspection and inquiry made.
2	20th May, 5 A.M.	Dishargarh Mine, Dishargarh P. O., Burdwan, Bengal.	Equitable Coal Co., Ld.	Nursing Majhi, (m.), 30, Coal-cutter.	Coal ,	Whilst working at the face of a level, the deceased lifted his naked light up towards the roof and ignited a little fire-damp which burnt him so severely that he died six days later. See Report, page 5. Inspection and inquiry made.
3	15th July, 9-30 A.M.	Laikdih Mine, Barakar P. O., Manbhum, Bengal.	Bengal Coal Co., Ld.	Sitaram Bauri, (m.), 28, Goyaram Bauri, (m.), 27, Dapu Bauri, (m.), 30, Coal-cutters.	Coal .	Four men went to work at the roof of a rise gallery where a little fire-damp had accumulated during the time some sheeting that directed the air had been broken down by falling stones. In some unascertained way the fire-damp! was ignited and the men were burnt by the explosion. Sitaram and Dapu died the next day and Goyaram the day after. The fourth man recovered. See Report, page 5. Inspection and inquiry made.
		FALLS	OF DOOR AN	D SIDE - (57 de	eaths).	
) Falls of roof	•		
4	7th January, 11-30 A.M.	Chota Dhemo Mine, Dishargarh P. O., Burdwan, Bengal.	Rai Ram Ban- dhu Chatterji, Bahadur.	Rameswar Bauri, (m.), 45, Coal-cutter.	Coal .	The deceased was loading coal in his working place, under overhanging roof coal, when a large quantity of the roof coal fell on his left leg fracturing it badly. He died from the injuries received on the same day. See Report, page 6. Inspection and inquiry made.
5	17th February, 4-30 P.M.	Koorwa Mine, Chakai P. O., Monghyr, Bengal.	D. C. Biswas & Co.	Chhatka Man- jhi, (m.), 35, Coolie.	Mica .	Killed by a fall of roof.
6	19th February, 11 ▲.M.	Namdang Mine, Margherita P. O., Lakhimpur, Eastern Bengal and Assam.	Assam Railways and Trading Co., Ld.	Bhagirathi, (m.), 30, Coal-cutter.	Coal .	A "bump" occurred dislodging some roof coal which struck deceased on the head causing fatal injuries.
7	26th February, 3-45 A.M.	Shampur Mine, Nirsachatti P. O., Manbhum, Bengal.	Shampur Coal Co., Ld.	Bhadru Mahato, (m.), 28, Chaitan Harri, (m.), 31, Coal-cutters.	Coal .	The two deceased went, apparently without orders, to cut some roof coal in an old gallery when a large quantity of the coal fell on them and killed them outright. Inspection and inquiry made.

Fatal Accidents, 1907-contd.

Serial Date and hour of secondent.	Name of owner. Name of owner. Person killed.	Name of mineral worked.	Cause of accident and remarks.
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FALLS OF ROOF AND SIDE-contd.

	(a) Falls of roof—contd.									
8	1-30 г.м.	Khuldia Mine, Giridih P. O., Hazaribagh, Bengal.	Bengal Coal Co., Ld.	Churki Ghatwarin, (f.), 26, Coal-carrier.	Coal	Whilst loading coal in a working place, a piece of roof stone fell and knocked down a prop which struck the deceased and injured her internally so seriously that she died within two hours. Inspection and inquiry made.				
•	28th February, 2 p.m.	Namdang Mine, Margherita P. O., Lakhimpur, Eastern Bengal and Assam.	Assam Railways and Trading Co.,	Mangal, (m.), 25, Coal-cutter.	Coal .	Deceased was reducing a pillar when a "bump" occurred and a piece of coal burst out from the pillar from a "slip" striking him and causing fatal injuries.				
10	3rd March, 2 A.M.	Kustore Mine, Kusunda P. O., Manbhum, Bengal.	Ranigani Coal Association, Ld.	Peary Chamain (f), 22, Coal-carrier.	Coal .	A fall took place in a gallery situated between two pillars which were being got and in the goaf. The fall extended to just beyond the fence which was fencing off the goaf from the workpeople. Decessed's body was recovered at the fence. She was probably sleeping at the time. Inspection and inquiry made.				
11	20th April, 5 P.M.	Khudia Mine, Nirsachatti P. O., Manbhum, Bengal.	S. B. Chatterji	Pana Bauri, (m.), 16, Water-bailer.	Coal .	The deceased was found dead under a large fall of roof stone at the end face of a gallery that was fenced off. Inspection and inquiry made.				
12	18th May, Midday.	East Ledo Mine, Margherita P. O., Lakhimpur, Eastern Bengal and Assam.	Assam Railways and Trading Co., Ld.	Kali Kahar, (m.), 25, Filler.	Coal .	Whilst filling coal into a basket some roof coal fell on him injuring him so severely that he died two days later.				
13	20th Мау, 3-30 р.м.	Takrai Mine, Khost P. O., Sibi, Baluchistan.	North-Western Railway.	Hari Ram, (m.), 19, Mine mate.	Coal .	The deceased went and lay down in an unsecured place in the goaf when a piece of shale. 20lb. in weight, fell on him from the roof causing concussion of the brain from which he died the next day.				
14	13th June, 3 P.M.	Baromashia Mine, Bamdah P. O., Monghyr, Bengal.	Hazarimal Mar- wari.	Anund Rana, (m.), 45, Rasika Mauzy, (m.), 40, Miners.	Mica .	Killed by a fall of roof while working without permission in an abandoned working.				
15	15th June, 11 A.M.	Dandot Mine, Dandot P. O., Jhelum, Panjab.	Government of India.	Hasham Ali, (m.), 22, Miner.	Coal .	Whilst he was executing some repairs, a fall of roof took place injuring him so seriously that he died on the 7th July.				
16	2nd July, 9 a.m.	East Ledo Mine, Margherita P. O., Lakhimpur, Eastern Bengal and Assam.	Assam Rail- ways and Trading Co., Ld.	Ram Charan Napit, (m.), 33, Filler.	Coal .	A piece of roof coal struck him on the head and fractured his skull. He died the following day.				
17	4th July, 10 a.m.	Namdang Mine, Margherita P. O., Lakhimpur, Eastern Bengal and Assam.	Assam Railways and Trading Co., Ld.	Monglu, (m.), 27, Filler.	Coal .	The deceased was picking coal while a narrow heading was being cut in soft coal, when the heading suddenly collapsed, burying the man completely and suffocating him.				
18	5th July, 2 P.M.	Aldih Mine, Sitarampur P. O., Burdwan, Bengal.	Aldih Coal Co., Ld.	Bhogta Majhi, (m.), 35, Coal-cutter.	Coal .	Killed by a fall of roof stone whilst robbing coal in a fenced off gallery. Inspection and inquiry made.				

Fatal Accidents, 1907-contd.

Serial num- ber.	Date and hour of accident.	Name and situation of mine.	Name of owner.	Name, sex, age, and occupation of person killed.	Name of mineral worked.	Cause of accident and remarks.
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FALLS OF ROOF AND SIDE-contd.

(a) Falls of roof-contd.

	(a) Falls of roof—contd.									
19	6th July, 10 A.M.	Borrea Mine, Sitarampur P. O., Burdwan, Bengal.	New Beerbhum Coal Co., Ld.	Jadu Majhi, (m.), 15, Coal-cutter.	Coal .	As he was going to his working place some roof stone fell, a portion of which struck him on the lower part of the body and injured him so seriously, internally, that he died in about an hour's time. Inspection and inquiry made.				
20	2nd August, 7-30 A.M.	Kabulayatkatti Mine, Kabulayatkatti P. O., Dharwar, Bombay.	Dharwar Reefs Co., Ld.	Nanjunda, (m.), 35, Hand-drill coolie.	Gold -	Whilst deceased and three others were clearing the end of a level preparatory to boring, some loose earth fell and struck him, causing injuries through the effects of which he died shortly afterwards.				
21	14th August, 2-45 p.m.	Kabulayatkatti Mine, Kabulayatkatti P. O., Dharwar, Bombay.	Dharwar Reefs Co., Ld.	Marapen, (m.), 25, Kavery, (m.), 25 Hand-drill coolies.	Gold .	The deceased were drilling in a stope when a portion of the roof fell and crushed them.				
22	26th September, 11 A.M.	Jogta Mine, Sijua P. O., Manbhum, Bengal.	Agabeg Bros.	Suku Majhain, (f.), 18, Coal-carrier.	Coal .	A piece of coal fell from the roof on to her leg while filling her basket. Blood poisoning super- vened and she died on the 2nd October.				
23	1st October, Between 9 and 10 A.M.	East Kurkend Mine, Kusunda P. O., Manbhum, Bengal.	Marine Coal Co., Ld.	Kanna Majhi, (m.), 18, Coal-carrier.	Coal .	His leg was broken by a piece of roof stone falling on it. Died from its effects on the 3rd October.				
24	4th October, 2 P.M.	Upper Ledo Mine, Margherita P. O., Lakhimpur, Eastern Bengal and Assam.	Assam Railways and Trading Co., Ld.	Bhabrini, (f.), 22, <i>Filler</i> .	Coal .	A big "bump" occurred dislodg- ing about 20 tons of fine coal which completely buried the deceased, and suffocated her to death.				
25	30th October, 2 P.M.	Kenwadih Mine, Jharia P. O., Manbhum, Bengal.	East Indian Coal Co., Ld.	Thakur Mahto, (m.), 25, Miner.	Coal .	He was standing on a trestle in one gallery cutting roof coal into the mouth of another gallery, when a large mass of roof coal fell, knocking over the trestle and injuring him so seriously that he died on reaching the surface. Inspection and inquiry made.				
26	30th October, 5 A.M.	Bhaga Mine, Jharia P. O., Manbhum, Bengal.	Jharia Colliery Co., Ld.	Koka Majhi, (m.), 22, Miner.	Coal .	The deceased was working with other miners digging floor coal, when a piece of coal of about 3 feet square and 1 foot thick fell out of the roof and on him. Inspection and inquiry made.				
27	18th November, 5 P.M.	Charnock Mine, Asansol P. O., Burdwan, Bengal.	Charnock Collieries, Ld.	Mangal Santal, (m.), 18, Miner.	Coal .	Killed by a large block of top coal whilst taking out bottom coal.				
2 8	3rd December, 5 P.M.	Khas Jharia Mine, Jharia P. O., Manbhum, Bengal.	Khas Jharia Colliery Co., Ld.	Robi Mulliek, (m.), 24, Coal-cutter.	Coal .	He was standing on a stool ripping up into some roof coal, when a large piece fell on him injuring him so severely that he died within a few minutes. See Report, page 6. Inspection and inquiry made.				

Serial num- ber.	Date and hour of accident.	Name and situation of mine.	Name of owner.	Name, sex, age, and occupation of person killed.	Name of mineral worked.	Cause of accident and remarks.				
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	FALLS OF ROOF AND SIDE—contd.									
	(a) Falls of roof—concld.									
29	7th December, 4-30 P.M.	Central Kurkend Mine, Kusunda P. O., Manbhum, Bengal.	Central Kur- kend Coal Co., Ld.	Charki Kole, (f.), 21, Coal-carrier.	Coal .	Killed by a fall of roof coal. See Report, page 6. Inspection and inquiry made.				
	(b) Falls of side—(28 deaths.)									
30	4th January, 3 p.m.	Bhaga Mine, Jharia P. O., Manbhum, Bengal.	Jharia Colliery Co., Ld.	Podo Mullick, (m.), 30, Bepin Bauri, (m.), 36, Miners.	Coal	These men were loading coal, which had been "dropped" from a pillar, which was being got. It is uncertain whether they were killed by more coal suddenly falling, or by coal which was found, fallen from the pillar opposite. If from the latter, they were probably robbing it. See Report, page 6. Inspection and inquiry made.				
31	24th January, 5 p.m.	Chirki Mine, Kodarma P. O., Hazaribagh, Bengal.	The Acme Mica Co. (E. M., and W. T. Floyd).	Muruth Gope,	Міса .	Ten men were working in a narrow trench in the bottom of a quarry, when a fall occurred from the side burying them in the trench. Five were got out alive and the remaining five dead, probably suffocated. See Report, page 7. Inspection and inquiry made.				
32	7th April, 6 a.m.	Jharia Khas Mine, Jharia P. O., Marbhum, Bengal.	Standard Coal Co., Ld.	Chumto Dhobi, (m.), 30, Miner.	Coal .	He was filling coal with others at a pillar which had been "dropped," and after taking coal to the surface, for some reason of his own appears to have gone down another road, over a fence. The overman heard some coal "working" and shouted out "run, run." Deceased ran up towards the others, but the coal fell on him killing him instantly. Inspection and inquiry made.				
33	23rd April, 10-30 A.M.	Tikak Mine, Margherita P. O., Lakhimpur, Eastern Bengal and Assam.	Assam Railways and Trading Co., Ld.	Arjoon, (m.), 24, Filler.	Coal .	Killed by a lump of coal that fell on him while clearing rubbish.				
34	lst May, 8-30 a.m.	Miragpur Mine, Kamptee P. O., Nagpur, Central Provinces.	Central India Mining Co., Ld.	Sukia, (m.), 35, <i>Miner</i> .	Manganese	The deceased was working with a crowbar in a slightly over-hanging cutting of thinly bedded ore 7 feet high, when about two feet of the upper portion fell over and killed him on the spot. See Report, page 7. Inspection and inquiry made.				
85	7th May, 6-30 P.M.	Binadikatta Mine, Shamdi P. O., Burdwan, Bengal.	Bidhu Bhusan Sarkar.	Kamini Baurini, (f.), 22, Earth-carrier.	Coal .	Killed by a fall of side while picking coal for her own use. Inspection and inquiry made.				

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Serial num- ber.	Date and hour of accident.	Name and situation of mine.	Name of owner.	Name, sex, age, and occupation of person killed.	Name of mineral worked.	Cause of accident and remarks.
		FAL	S OF ROOF	AND SIDE—co	td.	
		- 1	(b) Falls of si			
36	7th June, 11-45 г.м.	Gopalichak Mine, Jharia P. O., Manbhum, Bengal.	Gopalichak Coal Co., Ltd.	Fateh Majhi, (m.), 32, Miner.	Coal .	The deceased and another mar were found buried under a fal 18' × 15' × 3' which occurred on a tram-line level. Their tubs were found alongsid empty. It was not their prope working place. They probably intended robbing coal. Their jured man was taken away by his relatives. Inspection and inquiry made.
37	7th July, 6-30 a.m.	Choitodih Mine, Katrasgarh P. O., Jharia, Bengal.	Lutchipur Coal Co., Ld.	Ratu Chamar, (m.), 30, Miner.	Coal .	The deceased was working in an abandoned face of a galler though warned to desist, when a piece of coal 3' × 2' × 1' fel from a height of about 9' in juring him and a girl. He died shortly afterwards from the effects of the injuries. Inspection and inquiry made.
38	19th July, 4-15 P.M.	Red Hill Mine, Mogok P. O., Ruby Mines District, Burma.	Burma Ruby Mines, Ld.	Mi Kong, (m.), 40, Soupa, (m.), 17, Coolies.	Ruby .	Several coolies were sloping down a bank of earth when the ground slipped from under them. Mi Kong lost his footing, rolled over, and was immediately buried and suffocated. Soups stepped clear, but some fresh earth throw him down the bank and fractured his skull.
39	24th August, 7-30 P.M.	Faridpur Mine, Charanpur P. O., Burdwan, Bengal.	Poniati Coal Co.	Pocha Bauri, (m.), 20, Coal-cutter.	Coal .	Killed whilst robbing a pillar in old workings, by about 80 maunds of coal falling on him. Inspec- tion and inquiry made.
40	29th August, 7 p.m.	Taroktan Mine, Mogok P. O., Ruby Mines District, Burma.	Burma Ruby Mines, Ld.	Low See, (m.), 28, Coolie.	Ruby .	Whilst pushing trucks from the working face, a piece of rock broke off and fell on him fracturing his skull.
41	26th September, 5 A.M.	Brahmanbarari Mine, Jharia P. O., Manbhum, Bengal.	East Indian Coal Co., Ld.	Garu Bauri, (m.), 21, Coal-cutter.	Coal .	Whilst robbing a pillar in some old workings, a portion of its corner fell on him killing him on the spot. Inspection and inquiry made.
42	5th October, 12-30 P.M.	Hosnr Mine, Kabulayatkatti P. O., Dharwar, Bombay.	Hosur Gold Mines of Dharwar, Ld.	Yellishurur Goorappah, (m.), ? Surface Con- tractor.	Gold .	Injured by a fall of side. Died later.
43	15th October, 5 F.M.	Mysore Mine, Kabulayatkatti P. O., Dharwar, Bombay.	Mysore Gold Mining Co., Ld.	Mysore Chelviah, (m.), 32, Blaster Maistry.	Gold .	Injured by a fall of side after blasting operation. Died the next day from the effects of the injuries received.
44	18th October, 6 o'clock.	Kabulayatkatti Mine, Kabulayatkatti P. O., Dharwar, Bombay.	Dharwar Reefs Co., Ld.	Thirumalai, . (m.), 45, Maistry.	Gold .	After blasting operations loose rock from the face was being pinched out when a large piece fell on him causing severe injuries from the effects of which he died.

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Serial num- ber.	Date and hour of acoident.	Name and situation of mine.	Name of owner.	Name, sex, age, and occupation o person killed.	Name f of mineral worked.	Cause of accident and remarks.				
		FALL	S OF ROOF A	AND SIDE—con	td.					
			(b) Falls of si	\mathbf{de} — $contd$.						
45	23rd October, 12-30 P.M.	New Surataur Mine, Jharia P. O., Manbhum, Bengal.	J. L. Banerji & Co.	Hingla Bauri, (m.), 35, Miner.	Coal .	He was found severely injured under a large fall of coal from the side of a pillar in a fenced off place. He died about an hour later. See Report, page 7. Inspection and inquiry made.				
46	18th November, 8-30 a.m.	Gowangotha Mine, Kamptee P. O., Nagpur, Central Provinces.	Jessop & Co., Ld.	Holu Gond, (m.), 23, Labourer.	Manganese	He came alone in the early morning and began prizing out loose portions of manganese from the vein with a crowbar. While he was filling these into a basket, a slab of impure ore which had been loosened by his work rolled over and crushed him to death. Inspection and inquiry made.				
47	21st November, 3 P.M.	Kuordih Mine, Kalipahari P. O., Burdwan, Bengal.	Kuordih Coal Co., Ld.	Dharam Majhi, (m.), 19, Coal-cutter.	Coal .	He failed to stand clear when his mate was wedging down a piece of under-cut coal weighing about a ton. The falling coal struck him and nearly tore off his arm. He died subsequent to the amputation of his arm. See Report, page 7. Inspection and inquiry made.				
48	27th November, 10 A.M.	Kosamba Mine, Kamptee P. O., Nagpur, Central Provinces.	Central India Mining Co., Ld.	Denai Kole, (m.), 45, Miner.	Manganese	He was removing débris from an open cutting in loose earth, about 7 feet deep, when a boulder, weighing about half a ton, fell on him and inflicted injuries from which he died two days later. Inspection and inquiry made.				
49	2nd December, 3 P.M.	Dewanjote Mine, Tisri P. O., Giridih, Bengal.	F. F. Chrestien & Co.	Kaghu Gope, (m.), 30, Coolie.	Mica .	A fall of side took place while earth was being taken from the top to open out the mine, which struck him on the head and fractured his skull.				
50	6th December, 5 P.M.	Sudriadih Mine, Nowagarh P. O., Manbhum, Bengal.	Sudriadih Coal Co., Ld.	Beliah Beldar, (f.), 12, Earth-carrier.	Coal .	She was sitting with two other women in a new incline when some earth and soft coal 4' × 4' × 2' fell and buried and suffocated her. Inspection and inquiry made.				
51	24th December, 1 P.M.	Blialgora Mine, Jharia P. O., Manbhum, Bengal.	Bhalgora Coal Co., Ld.	Mistri Majhi, (m.), 26, Miner.	Coal .	While engaged in extracting pillars, a large piece of roof coal came away and fell on him, causing such severe injuries that he died the same evening. Inspection and inquiry made.				
	IN SHAFTS—(21 deaths).									
	Ropes and chains breaking—(1 death).									
52	24th May, 2-30 P.M.	Benahir Mine, Jharia P. O., Manbhum, Bengal.	Standard Coal Co., Ld.	Dhona Majhi, (m.), 30, Miner.	Coal	As a full bucket reached the top of a pit the rope broke and the bucket fell on him as he was standing at the pit bottom. He died three days later from the effects of the injuries received. See Report, page 8. Inspection and inquiry made.				

	· -		- Incorporation	, ===, ===		
Serial num- ber.		Name and situation of mine.	Name of owner	Name, sex, age and occupation person killed.	of of minera	l Cause of accident and remarks,
			IN SHAFT	S-contd.		
		Whilst ascending	and descending	ng by machine	ery—(3 dea	ths).
53	9th February, 5-30 P.M.	Mudidih Mine, Katrasgarh P. O., Manbhum, Bengal.	Reliance Coa.	Thakuri Gope (m.), 31, Sinker.	Coal	The deceased and another man had been raised to the surface and while the trolley was being pushed underneath, he fell out of the bucket. No one actually saw him fall. He may have been trying to get on to the rim preparatory to getting off. Inspection and inquiry made.
54	17th May,	Rajhara Mine, Rajhara P. O., Palamau, Bengal.	Bengal Coal	Yar Mahomed, (m.), 30, Fitter. Kumar Singh, (m.), 32, Pump khalassu		The fitter was being raised up a shaft 100' deep, by means of a crab winch. He was within 15' of the surface when the rope broke and he fell to the bottom of the shaft and was killed. He fell upon the pump khalassi and killed him. The rope was badly worn and corroded internally. See Report, page 8. Inspection and inquiry made.
		Falling into	the shaft from	n the surface-	-(2 deaths)	
55	21st March, 12-15 A.M.	_	Shampur Coal Co., Ld.		•	Deceased appears to have fallen down the pit whilst working with the fence-gate removed, contrary to orders. Inspection and inquiry made.
56	9th August, 2-40 P.M.	Jamadoba Mine, Jharia P. O., Manbhum, Bengal.	Indian Collieries Syndicate, Ld	Babu Lal Roy, . (m.), 30, Fitter.	Coal .	The deceased was fastening a clamp for some pulley blocks during the raising of a pump when a hook of one of the winches broke and he was carried over the pit by the rope and killed. See Report, page 8. Inspection and inquiry made.
57	14th November, 4 P.M.	Begunia Mine, Barakar P. O., Burdwan, Bengal.	N. L. Gorain and others.	Bistu Bauri, (m.), 40, Engine khalassi	Coal .	While unfastening a small 10" pulley from the top of the pit head gear, about 30' high, his feet slipped off the cross-iron tie rod on which he was standing and he fell down the pit into about 70' of water and was drowned. See Report, page 9. Inspection and inquiry made.
	•	Calling from	nest of the v	vay down—(7	donthal	
58	7th January, 4-30 p.m.	Bulliari Mine, Jharia P. O., Manbhum, Bengal.	Bulliari Coal Concern.	Domarku Lilu, (m.), 35, Sinking Sirdar.	,	The deceased had his foot on the hook whilst being drawn up a pit by means of a gin when apparently his foot slipped and he fell from nearly three-quarters of the way up and was killed instantly. Inspection and inquiry made.
59	19th March, 5 P.M.	Tisri P. O., Hazaribagh,	F. F. Chrestien & Co.	Jungli Rai, (m.), 60, Coolie.	Mica .	The deceased was climbing a ladder to come out of the mine when his foot slipped and he fell to the bottom. He died two hours later.
60	29th Мау, 10 а.м.	North Kustore Mine, Kusunda P. O., Manbhum, Bengal.	Nayadi Col-	Behari Gope, (m.), 25, Pump khalassi.	Coal .	He suddenly from some unexplained cause fell into the sump through a 6'-10' × 4'-12' opening in the staging at the pit bottom. Inspection and inquiry made.

Fatal Accidents, 1907—contd.									
Serial num- ber.	Date and hour of accident.	Name and situation of mine	Name of owner.	Name, sex, age, and occupation of person killed		Cause of accident and remarks.			
,		•	IN SHAFTS	-contd.					
	Falling from part of the way down-contd.								
61	27th June, 9-45 A.M.	Sodepur Mine, Sitarampur P. O., Burdwan, Bengal.	Bengal Coal Co., Ld.	Rakhal Majhi, (m.), 35, Coal-cutter.	Coal .	The deceased and four others were descending a pit in a cage when it collided with the ascending cage. The consequent shock and tilting of the cage caused him to fall out and to the bottom of the pit, a depth of about 194 feet, where he was found quite dead. Inspection and inquiry made.			
62	26th July, 6 A.M.	Anantapur Mine, Morriston P. O., Anantapur, Madras.	Anantapur Gold Field, Ld.	Swamy, (m.), 36, Hand jumper maistry.	Gold .	The deceased slipped and fell while climbing a ladder and fractured his skull.			
63	5th Angust, 10-30 P.M.	Pretoria Mine, Charanpur P. O., Burdwan, Bengal.	Sibpur Coal Co., Ld.	Mohan Kora, (m.), 40, Pumpman.	Coal .	The deceased and three women were descending a shaft when the man fell to the bottom and was killed instantly. Inspection and inquiry made.			
64	1st September, 4 A.M.	Chinchuria Mine, Asansol P. O., Burdwan, Bengal.	New Beerbhum Coal Co., Ld.	Ram Charan Singh, (m.), 32, Sinker.	Coal	He was being lowered in the kibble and thinking that he had almost reached the bottom of the shaft, jumped out, falling a distance of about 20 feet. The injuries received were so serious that he died from their effects on the 15th September. Inspection and inquiry made.			
		Things fa	lling from the	surface—(2 deas	lhs).				
65	8th March, 2-30 P.M.	Sanctoria Mine, Dishargarh P. O., Burdwan, Bengal.	Bengal Coal Co., Ld.	on 11 or 1	Coal	The deceased with two others were working in an upcast shaft and were down about 300 feet from the surface. He leaned forward from the cage to see if they were in the proper place when something fell down the pit on to his head and fractured his skull, from the effect of which he died almost immediately. Inspection and inquiry made.			
66	7th May, 7-30 P.M.	Sitalpur Mine, Sitarampur P. O., Burdwan, Bengal.	Bengal Coal Co., Ld.	Lakhu Bauri, (m.), 20, On-setter.	Coal .	Whilst the deceased and another man were pulling an empty tram from the pit cage at the pit bottom, a piece of coal fell down the pit, evidently from the loaded tram which had just been hauled up, and struck him on his head fracturing his skull. He died the next day. Inspection and inquiry made.			
		Things falling from	n part of the	Way down_/	2 deathal				
67	l9th March,		Baraboni Coal I Concern, Ld.		-	Deceased was sending up the pit in a basket stones which had previously been loosened, when probably owing to careless hooking two of the hooks attaching the rope to the basket became detached and the basket tilting threw the contents on to his head, He died an hour later. Investigation and inquiry made.			

Serial num- ber.	Date and hour of accident.	Name and situation of mine.	Name of owner.	Name, sex, age, and occupation of person killed.	Name of mineral worked.	Cause of accident and remarks.		
IN SHAFTS—contd. Things falling from part of the way down—contd.								
68	30th December, 10 a.m.	Mudidih Mine, Sijua P. O., Manbhum, Bengal.	Reliance Coal Co., Ld.	Thanu Bhuia, (m.), 30, Sinker.	Coal	While some men were working at the bottom of a sinking shaft two or more small stones fell out of the side of the shaft, one of them killing Thanu and injuring another. See Report, page 9. Inspection and inquiry made.		
		, л	Aiscellaneous—	(3 deaths).		•		
69	18th February, 10 P.M.	Sitarampur P. O., Burdwan, Bengal.	Damuda Coal Co., Ld.	Choto Majhi, (m.), 24, Coal-cutter.	Coal .	The deceased and eight others were being lowered into a pit in a cage when a corner of the cage got caught at a landing, 24 feet below the top landing. The opposite end tilted downwards and caused him to fall out and down the pit over 300 feet. See Report, page 9. Inspection and inquiry made.		
7 0	14th March, 2-30 P.M.	Panchgatchia Mine, Sitarampur P. O., Burdwan, Bengal.	Co., Ld.	Khobilasy Pasin, (f.), 22, Bailer.	Coal	The deceased was wrongly going across the pit-bottom while the cages were in motion and the descending cage fell on her and killed her instantly. Inspection and inquiry made.		
71	8th May, 4-30 P.M.	Sendra Mine, Ratrasgarh P. O., Manbhum, Bengal.	Rai Srinath Pal Bahadur.	Jonab Sheik, (m.), 22, Khalassi.	Coal .	He was in the pit on the pump platform and was tightening a nut. The wrench slipped, and he fell down 9 feet into 8 feet of water and was drowned. In- spection and inquiry made.		
•		В	Y EXPLOSIVE	S-(11 deaths).	'			
72	1st February, 12-30 P.M.	Brahmanbarari Mine, Jharia P. O., Manbhum, Bengal.	East Indian Coal Co., Ld.	Sudabally Meah, (m.), 30, Sinker.	Coal .	While eleven men were dressing the sides in a pit-bottom an explosion of dynamite occurred injuring two men, one of whom (the deceased) died the following night. See Report, page 9. Inspection and inquiry made.		
73	26th February, 12 Noon.	Surataur Mine, Jharia P. O., Manbhum, Bengal.	K. B. Seal .	Lal Moni Dhoba, (m.), 25, Head Sinker.	Coal	He had gone down a sinking shaft to fire four shots. Two fuses were two feet long, and two three feet long. By mistake he fired the two short fuses first. He had some difficulty in lighting the 3rd fuse, and the let fuse went off when he was being brought up and when he was only 6 feet from the bottom. He was thrown to the bottom of the pit and injured by the three other shots to such an extent that he died in four hours. Inspection and inquiry made.		
74	6th March, between 9 and 10 A.M.	Harayah Mine, Kodarma P. O., Hazaribagh, Bengal.	F. F. Chrestien & Co.	Ramdala, (m.), 13\frac{1}{2}, Coolie.	Mica .	The deceased was trimming an open lamp close to a box of gunpowder when a spark fell on the powder and caused an explosion. He was burnt so severely that he died on the 13th March.		
. 75	21st May, 2-30 p.m.	Bhandawas Mine, Sanwar P. O., Ajmer, Rajputana.	R. B. Seth Sobh a g m a l Dhudha.	Gomanath, (m.), 35, Coulie.	Mica .	Gunpowder was being handled in a shed on the surface when it exploded. Three men were burnt and Gomanath so seri- ously that he died two days afterwards. See Report, page 9. Inspection and inquiry made.		

Serial num- ber.	Date and hour of accident.	Name and situation of mine.	Name of owner.	Name, sex, age, and occupation of person killed.	Name of mineral worked.	Cause of accident and remarks,	
BY EXPLOSIVES—contd.							
76	18th August, 4 A.M.	Anantapur Mine, Morriston P. O., Anantapur, Madras.	Anantapur Gold Field, Ld.		Gold .	During the temporary absence of the blaster, the deceased ham- mered at a rock which contained a "socket" that had missed fire. It exploded just then and in- jured them so severely that they died from the effects.	
77	5th September, 2-30 A.M.	Dharwar Mine, Kabulayatkatti P. O., Dharwar, Bombay.	Dharwar Gold Mines, Ld.	Solomon, (m.), 40, Maistry.	Gold .	The deceased and another man began drilling after the blaster had reported that all the holes previously set had fired. One, however, had missed fire and this exploded injuring both severely. Solomon died from the effects the same day.	
78	11th September, 9 a.m.	Hosur Mine, Kabulayatkatti P. O., Dharwar, Bombay.	Hosur Gold Mines of Dharwar, Ld.	Daval Saib, (m.), 12, Surface coolie.	Gold .	While blasting operations were in progress every one near by was ordered away, but deceased who was about 300 feet away behind the stores rushed out to see the explosives and was struck on the head by a piece of stone. He died half an hour later.	
79	22nd October, 5 A.M.	Barkui Mine, Pench Valley P. O., Chhindwara, Central Provinces.	Pench Valley Coal Co., Ld.	Raghubir Noghana, (m.), 42, Hewer.	Coal .	Against the sirdar's orders the deceased returned to his working place within a few minutes of the lighting of the fuse of a shot. He thought that a missire had taken place, but no sooner had he reached the face than the shot exploded and he was killed on the spot. Inspection and inquiry made.	
.80	21st November, 12-30 p.m.	Chandametta Mine, Pench Valley P. O., Chhindwars, Central Provinces.	Pench Valley Coal Co., Ld.	Narbadi Noghani, (f.), 30, Coal-carrier.	Coal ,	A shot was fired in a bord just on the point of holing into the cross-cut; the deceased was fill- ing coal and was struck on the head by the flying coal. The shot firer claimed to have warned every one. Inspection and inquiry mode.	
8 1	28th December, 4 a.m.	Jawatari Mine, Nawadah P. O., Gaya, Bengal,	Kanhaya Lal .	Motia Mushar, (m.), 25, Miner.	Mica .	He was coming out of the pit after charging a bore hole when the charge fired and a piece of stone struck him on the chest killing him.	
(IRRUPTIONS OF WA	TER OR FAL	LING INTO W	/ATER(4	deaths).	
82	9th April, 6-30 A.M.	Narsamuda Mine, Asansol P. O., Burdwan, Bengal.		Jogesar Bauri, (m.), 12, Ragha Baurini, (f.), 16, Water-bailers.	Coal .	The deceased were bailing water during the night, and it appears they left off work and rambled into a gallery where a pumping engine was working and exhausting into a shallow sump full of hot water. The boy fell into this sump and the girl went in to get him out. Both were scalded and died some hours later. See Report, page 9. Inspection and inquiry made.	
88	5th August, between 3 and 5 A.M.	Ganzlatar Mine, Katrasgarh P. O., Manbhum, Bengal.	New Manbhum Coal Co., Ld.	Mottia Gope, (m.), 24, Tramming coolie. Suckai Gope, (m.), 35, Dust-screener.	Coal .	Drowned by the overflowing of an adjacent river into the mine where the two deceased and another man were working unknown to anyone. See Report, page 10. Inspection and inquiry made.	

			A.ocidents,	200, 00	<u>-</u>	
Serial num- ber.	Date and hour of accident.	Name and situation of mine,	Name of owner.	Name, sex, age, and occupation of person killed.	Name of mineral worked.	Cause of accident and remarks.
				GASES—(2 deat	-	
84	12th June,	Sor Range Mine, Quetta P. O., Pishin, Baluchistan.	Khan Bahadur B. D. Patel, C.I.E.	Fatch Mahomed, (m.), 30, Coolie.	Coal .	While he was working along with another man in a level close to some old workings which had been holed into a day or two previously, some carbon dioxide gas accumulated and put out their lights. The men ran towards the place from where fresh air was coming, but the deceased stumbled and fell and evidently was overcome by the gas and suffocated. See Report, page 10.
85	15th September, 11 P.M.	Benahir Mine, Jharia P. O., Manbhum, Bengal.	Standard Coal Co., Ld.	Roshan Gope, (m.), 30, Sinker.	Coal .	Deceased descended before his mates on a Sunday night after the pit had been idle all day, and was suffocated by carbonic acid gas at the pit bottom. See Report, page 10. Inspection and inquiry made.
			HAULAGE-((O deaths).		
86	4th February, 10 a.m.	Bhalgora Mine, Jharia P. O., Manbhum, Bengal.	Bhalgora Coal Co., Ld.	· .	Coal .	The deceased got caught through his own carelessness between a train of seven full tubs which was being lowered down to the wharf and another train of empty tubs which was standing on another tramway, and was injured so severely that he died 6 hours afterwards. Inspection and inquiry made.
87	26th February, 7 A.M.	Rampur Mine, Kalipahari P. O., Burdwan, Bengal.	S. T. Creet and Co.	Sobu Bauri, (m.), 25, Bottom Hookman.	Coal	He with three other men was attempting to lift a derailed coal wagon on to the line when the wagon overturned and crushed him against a coal pillar. He died on the 6th March from the effects of the injury. Inspection and inquiry made.
8 8	18th April, 10 a.m.	Chandametta Mine, Pench Valley P. O., Chhindwara, Central Provinces.	Pench Valley Coal Co., Ld.	Nattu Kori, (m.), 24, Coal-cutter.	Coal .	A train of tubs ran over him while he was in their way with- out a light and fractured his leg. Septic poisoning super- vened. He died 3 or 4 days later. Inspection and inquiry made.
89	29th April, 11-45 a.m.	Ghusik Mine, Kalipahari P. O., Burdwan, Bengal.	S. T. Creet and Co.	Gorabini Baurini, (f.), 40, Coal-carrier.	Coal	Owing to the shearing of that portion of the frame of a coal tub to which the draw-hook was attached three tubs ran amain. The deceased was sitting near the crossing into a siding 375' down the plane. The tubs became derailed at the points, and she was struck by them and killed on the spot. The connection which broke was of weak construction and design. See Report, page 11. Inspection and inquiry made.

			Ziccidentes, .			
Serial num- ber.	Date and hour of acoident.	Name and situation of mine.	Name of owner.	Name, sex, age, and occupation of person killed.	Name of mineral worked.	Cause of accident and remarks.
			HAULAGE	-contd.		
90	16th May, 10 A.M.	Kankani Mine, Sijua P. O., Manbhum, Bengal.	Eastern Coal Co., Ld.	Mu nku Tewari, (m.), 26, Pit Munshi.	Coal	The deceased was going down an incline when a train of eight empty tubs ran down amain, overtook him, knocked him down and killed him instantly. Inspection and inquiry made.
91	10th July,	West Ledo Mine, Margherita P. O., Lakhimpur, Eastern Bengal and Assam.	Assam Rail- ways & Trad- ing Co., Ld.	Budram Mura, (m.), 30, Rope-rider.	Coal .	Killed by being run over by tubs.
92	27th September, 9 P.M.	Nam lang Mine, Margherita P. O., Lakhimpur, Eastern Bengal and Assam.	Assam Railways & Trading Co., Ld.	Duku Bhumiz, (m.), 20, Brakesman.	Coal .	The deceased omitted to place the stop-block in position and was run over by a loaded tub. He died about five hours after the accident.
93	27th September, 3 A.M.	Baraboni Mine, Asansol P. O., Burdwan, Bengal.	Ghusic and Muslia Col- lieries, Ld.	Betul Bauri, (m.), 30, Jegoshi Bauri, (m.), 26, Stone-cutters.	Coal .	While the two deceased were asleep at a curve on the dip haulage plane, the haulage rope broke and nine empty wagons ran amain. They became derailed at the curve and ran over the men causing injuries from which they died shortly after. Inspection and inquiry made.
91	3rd October, 11-30 P.M.	Central Kurkend Mine, Kusunda P. O., Manbhum, Bengal.	Central Kurkend Coal Co., Ld.	Kisson Majhi, (m.), 30, Coal-carrier.	Coal .	Eight empty tubs got loose and ran amain and collided with the deceased and broke his leg. Blood poisoning supervened and he died on the \$\frac{3}{2}\$th October. Inquiry held.
:		SUNDR	IES UNDERGR	OUND—(3 deat)	ia).	,
95	17th February, 1 P.M.		Equitable Coal Co., Ld.		Coal .	The deceased whilst waiting in the dark while the fitter went for lights (their lights having become extinguished) wandered into some adjacent old workings that were fenced off and hot and partly filled with vapour. He died soon after being found. Probably from exhaustion and fright. Inspection and inquiry made.
9 6	20th March, 2-45 P.M.	Mayo Mine, Khewra P. O., Jhelum, Panjab.	Government of India.	Hussan Bibi, (f.). 70, Carrier.	Salt .	She slipped while walking up the travelling way and a loaded truck which was following her came up just then and pushed her a distance of about 19 ft. injuring her so severely that she died the next day.
97	1st July, 3 P.M.	Kabulayatkatti Mine, Kabulayatkatti P. O., Dharwar, Bombay.	Dharwar Reefs Co., Ld.	Periathumby, (m.), 30, Blaster's assistant.	Gold .	Deceased had climbed a ladder in the stope to a height of about 36, carrying clay for the blaster, when he slipped and fell. He was injured so seriously that he died a short while after.

APPENDIX I_contd.

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Serial num- ber.	Date and hour of accident.	Name and situation of mine.	Name of owner.	Name, sex, age, and occupation o person killed.	Name of mineral worked.	Cause of accident and remarks.
	·	<u></u>	ABOVE G	ROUND,		+
		Ву	surface mach	inery—(2 deaths) . .	
98	7th June, 3-30 A.M.	Chowrasi Mine, Dishargarh P. O., Burdwan, Bengal,	Equitable Coal	Baneshwar Mullick, (m.), 35, Wagon- trimmer.	Coal .	The deceased was leaning forward clearing off the coal from the "balance plate" which it had failed to deliver into the wagon, when it swung up and flung him backwards into the wagon. He died almost immediately. Inspection and inquiry made.
99	16th November,	Jharia P. O., Manbhum, Bengal.	Gopalichal Coal Co., Ld.	(m.), 22, Surface Coolie.	Coal .	He was sitting eating his food on the handle of a hand-crane when the pawl suddenly slipped and the handle struck him on the head. Inspection and inquiry made. See Report, page 11.
		On surface railways as	na tramways	belonging to the	ne mine—	(1 death).
100	1st October, 3-30 A.M.	Steam tramway on the Tumsur-Katangi Road.	Central India Mining Co., Ld.	Lakhan, (m.), 17, Locomotive Oiler.	Manganese	The man was apparently asleep on the platform of an interme- diate brake wagon and fell off on to the track while the train was in motion and a truck passed over both thighs. He died about five hours later.
		Miscellaneous	on surface-	(6 deaths).		
101	16th February,	Jogts Mine, Sijua P. O., Manbhum, Bengal.	Agabeg Bros.	Bhatni Barhin, (f.), 12, nil, Bhiku Passi, (m.), 14, Coal-carrier.	Coal .	An area, measuring 315' × 262', suddenly subsided, after giving warnings, unfortunately unheeded, for about three hours. Six men and two boys went down with one hut. All were got out alive except Bhiku. The girl went down with another hut, in which she was lying ill. See Report, page 11. Inspection and inquiry made.
102	26th April, l a.m.	Mahalichuah Mine, Giridih P. O., Hazaribagh, Bengal.	E. Myers.	Abdul Meah, (m.), 36, Timberman.	Coal .	While running to get out of the way of some earth that was subsiding over an old mine he fell over some stones and injured himself so severely that he died later on. Inspection and inquiry made.
103	5th June, 10 A.M.	Sudreadih Mine, Nowagarh P. O., Manbhum, Bengal.	Sudreadih Coal Co., Ld.	Jalpi Meah, (m.), 18, Fireman.	Coal .	In order to repair a gauge-glass leak, he attempted to shut the lower cock by striking it, instead of getting up to it to turn it. In striking he broke the genge-glass and a piece of the glass entered his arm. He died from hæmorrhage and shock four hours later. Inspection and inquiry made.
104	23rd and 24th Dece mber. Between 10 P.M. and 2 A.M.	Dishagarh Mine, Dishargarh P. O., Burdwan, Bengal.	Equitable Coal Co., Ld.	Hello Sheik, (m.), 26, Engineman.	Coal .	Cause unknown, but apparently fell down a hole 18' wide in which a large fly-wheel worked. The hole was fenced except a little at one side, and the deceased was found about 9 feet from the viheel quite dead. Inspection and inquiry made.
105	30th December, 11-30 A.M.	Madhabpur Mine, Raniganj P. O., Burdwan, Bengal.	Imperial Coal Co., Ld.	Kartic Akorea, (m.), 22, Coolie.	Coal .	Deceased and two other coolies were breaking down old brick walls when a portion fell on the top of him killing him. In- spection and inquiry made.

APPENDIX 1-contd.

Serial number.	Date and hour of accident.	Name and situation of mine.	Name of owner.	Name, sex, age, and occupation of person killed.	Name of mineral worked.	Reason for exclusion.	Cause of accident and remarks,
-		DEATHS NO	T INCLUDE	ED IN THE	STATISTI	CS—(12 dea	ths).
1	9th February, 9 a.m.	On broad gauge main line opposite Jogitand wharf.	East Indian Railway Co.	Nemia Jolin, (f.), 50.	Coal .	Not employed.	The deceased who was said to be very deaf was walking alongside the railway line and attempted to cross just when the engine came near her and was run over.
2	4th Мау, 12-30 г.м.	Phularibad Mine, Jharia P. O., Manbhum, Bengal.	Khas Jharia Coal Co.	Brihaspati Bhuia, (m.), 8.	Coal .	Not employed.	While shunting was in progress the boy attempted to cross the railway lines and his left leg was run over. He died on the 24th May.
3	11th July	Mosila Mine, Asansol P. O., Burdwan, Bengal.	Ghusic and Musila Col- lieries, Ld.	Jadu Kurmi, (m.), 30, Coolie.	Coal .	Cause of accident not known.	Found drowned. Probably went to bathe and fell in.
4	26th July, 7 а.н.	Kustore Mine, Kusunda P. O., Manbhum, Bengal.	Raniganj Coal Asso- ciation, Ld.	Bhattu Meah, (<i>m.</i>), 12.	Coal .	Not employed.	Run over and killed by an engine and train of wagons. Inspec- tion and enquiry made.
5	17th August, 6 a.m.	Baraboni Mine, Asansol P. O., Burdwan, Bengal.	Baraboni Coal Concern, Ld.	Niroda Domin, (f.), 13.	Coal .	Not employed.	Whilst she was sleeping near the winding engine, a wooden plug, used for the drain cock which had been stolen, blew out, and she was scaled so severely by the escaping steam that she died two days later. Inspection and inquiry made.
6	22nd September, 9-30 A.M.	Kuordih Mine, Kalipahari P. O., Burdwan, Bengal.	Kuordih Coal Co., Ld.	Moti Bauri, (m.), 2.	Coal .	Not employed.	Run over by a tub whilst playing on the line. He died some days later. Inspection and inquiry made.
7	5th November, 8 A.M.	Gararia Mine, Kusunda P. O., Manbhum, Bengal.	Ramji Bechar Das.	Sohadaria Kurmini, (f.), 22.	Coal .	Not employed.	She was found drowned in an old incline where there was upwards of 7 feet of water. Inspection and inquiry made.
8	10th November, 7 A.M.	Napara Mine. Asansol P. O., Burdwan, Bengal.	Banwari Lal Mukherji.	Santosh Kumar Raha, (m.), 30, Cashier.	Coal	Not an accident.	The deceased committed suicide by jumping down the shaft. The shaft was fenced. Inspec- tion and inquiry made.
9	16th November, 9-30 a.m.	Jamuria Mine, Nandi P. O., Burdwan, Bengal.	Equitable Coal Co., Ld.	Mohendry Kora, (f.), 8.	Coal .	Not employed.	She went down the incline with her mother and was standing at the bottom when a leaded tub ran down and struck and killed her. Inspection and inquiry made.
10	22nd November, 6-30 p.m.	Jairamdanga Mine, Asansol P. O., Burdwan, Bengal.	New Beer- bhum Coal Co., Ld.	Foodni, (f.), 28.	Coal .	Not employed.	Fell through a partial gap in the fencing of an air-shaft. In- spection and inquiry made.
11	25th December. 2-15 A.M.	Bhuggutdih Mine, Dhanbaid P. O., Manbhum, Bengal.	Bengal-Nag- pur Coal Co., Ld.	Bhabi Rai, (f.), 45, Coal-carrier. Sonna Rai, (m.), 8.	Coal .	Not a mine acci- dent.	They were sleeping in a hut which caught fire and presumably could not open the door before they were burnt or suffocated. Inspection and inquiry made.

APPENDIX II.

Table No. 1.

Indian Mines Act, 1901, Numbers of Mines and Workers, year 1907.

		s under	Numb Mil		INSP	BER OF INES ECTED NG THE	AVE	RAGE NU	IMBER IN AND	OF PER	SONS E	MPLOYI	ED DAI	LY	
PROVINCE.	District and Mineral	mines of the				BAB.] 1	BELOW G	ROUND.			ABOVE G	BOUND.		Grand
1301111021	field.	Number of the scope	Worked by steam.	Not worked by steam.	Once.	Twice or more.	Adult males.	Adult females.	Children (under 12).	Total below ground.	A dult males.	Adult females	Children (under 12).	Total above ground.	Total below and above ground.
								A.—C	OAL.						
Bengal .	Hazaribagh, Giridih Manbhum, { Jharia Raniganj Bankura Burdwan "	8 184 42 1 130	102 22 119	82 20 1 11 2	5 45 4 1 57	1 26 2 42	3,212 18,534 2,600 20 14,699 18	1,329 13,078 1,048 17 6,069 5	35 506 23 256	4,576 32,118 3,671 37 21,024	1,907 11,605 1,207 8 6,561	1,049 5,510 711 5 4,047	96 1,097 20 288	3,052 18,212 1,538 8 10,896	7,628 50,330 5,609 45 81 920 23
	Sonthal Parganas, Raniganj. Sonthal Parganas, Rajmahal.	3		3		···.	2	8		31	8 232	4 30	7	12 269	43 703
	Palamau, Daltonganj . Totat .	372	249	123	112	72	39,365	21,696	853 853	61,914	21,523	11,356	1,508	34,387	96,301
	TOTAL .					·		į				25	10	126	511
Central Pro-	Chbindwara, Pench Valley. Narsinghpur, Mohpani. Chanda, Ballarpur	1 1	3 1 1			 1 1	257 416 220	128 137		385 553 220	91 356 109	70		426 109	979 329
	Total .	5	5		3	2	893	265		1,158	556	95	10	661	1,819
Panjab .{	Jhelum	14 4 1	1	13 4 1	:::		1,000 33 80		6	1,006 33 80	599 26 33	1	2	613 26 36	1,619 59 116
	Total .	19	1	18			1,113		6	1,119	658	, 1	16	675	1,794
Eastern Bengal and {	Lakhimpur . Sibsagar, Dikhu Valley .	5	5	1	:::		752 8	36 2		1,114	372 4	211	19	602 7	1,716 15
	Total .	6	. 5	1			760	362		1,122	376	214	19	609	1,731
Baluchistan {	Sibi. Khost . Ouetta, Sor Range . Kalat, Mach and Digari . Loralai, Loralai .	1 5 5 1	 	 5 5 1			446 131 139 9	: :::	2	446 131 141 9	245 23 27 3	:: ::	15 4 	260 23 31 3	706 154 172 12
	Total .	12	1	11			725		2	727	298		19	317	1,044
	GRAND TOTAL . (COAL).	414	261	158	135	74	42,856	22,323	861	66,040	23,411	11,666	1,572	36,649	102,689
								В.—М	ICA.						
Bengal . {	Monghyr Hazaribagh Gaya	34 268 34	 	34 268 34	₂		176 3,563 693	111 1,170 349	173 22	287 4,906 1,064	78 1,161 206	1,428 103	10 1,251 112	165 3,840 421	452 8,746 1,485
	TOTAL .	336		336	2		4,432	1,630	195	6,257	1,445	1,608	1,373	4,426	10,693
Madras . {	Nellore	128 2		128	36	 :::	2,387 29	1,963	227	4,577 31	718 2	879	947	2,544	7,121 33
•	Total .	130		130	36		2,416	1,963	229	4,608	720	879	947	2,546	7,154
Rajputana .	Ajmer-Merwara	6		6	1		47	16	6	69	55	19	8	77	146
,	GRAND TOTAL (MICA).	472		472	39		6,895	3,609	430	10,934	2,220	2,506	2,323	7,049	17,983

Table No. 1—contd.

Indian Mines Act, 1901, Numbers of Mines and Workers, year 1907.

			under Act.	Numb mi	ER OF NES	MI INSP	EER OF NES ECTED NG THE	AVE			OF PER			ED DAI		Grand
PROVINCE.	I	District and Mineral field.	mines of the	Worked	Not worked	YE	Twice	Adult	Adult	Children	Total below	Adult	Adult	Children (under	Total above	Total below and above ground-
			Number of 1	steam.	by steam.	Once.	more.	males.	females.	(under 12).	ground.	males.	females.	12).	ground.	
	-				\			c.	_MAN	IGANE	SE.				ļ	
ſ	N	agpur	29	2	21 11	13 5		2,299 1,138	185	3	3,574 1,859	200 249	141 122 112	9 52	350 371 388	3,924 2,230 2,663
vinces	B	alaghat	15		13	<u> </u>	1	1,407	822 70		2,275 164	224 113	139	ļ	252	416
	_	TOTAL	. 50	2	48	18	1	4,93	2,795	140	7,872	786	514	61	1,361	9,233
adras .	V	7izagapatam .	. 4	4	44	6 2		4,70	2,195	212	7,113	735	508	63	1,306	1,099
ombay .	F	Panch Mahals .	·	 		\ -		820	198	80	1,099			<u>""</u>		
		GRAND TOTAL (MANGANESE).	. 9	9 6	98	20	. 1	10,46	5,186	432	16,084	1,521	1,022	124	2,667	18,751
	-							D	LIM	ESTON	ie.					
entral Pro vinces	. -	Jabalpur, Katni .	- 2	0	1	9 20		74	7 1,18	5 75	2,007	423	511	52	986	2,99
Panjab	_ - 	Hoshiarpur .		1	_	1	-	2		- 	20	40		<u></u>	40	60
	-	GRAND TOTAL (LIMESTONE).	- -	1	2	0 20		767	1,18	5 75	2 027	468	51	52	1,026	3,05
	-	(Dimac, Sway)							E	SALT.						
Panjab .	٦i	Shahpur		1 2 1		1 2 1		3		39	2 5 75 5	8 4	6		17 46 	80 5
	_ -	GRAND TOTAL (SALT)		4		4		-44	8 36	39 5	2 86	7 6	з		68	930
									F	_GEMS	3.					
Burma		Mogok (Rubies, etc.)		6		6		_ _	91		9	2,09			2,097	2,1
									G,-	_SLAT	E.					
Bengal		Monghyr	·	5		5	5	1	62	97	25	9 8	30	46	126	3 3
Punjab		Gurgaon		3		3			51	. :	19 7	0 19		. 1	7 216	3 2
		GRAND TOTAL (SLATE).		8 .	.	8	5	2	L3 . 6	97]	.9 32	9 27	9 4	6 1	7 342	6
	_								н	.—aol	D,					
Bombay		Dherwar	_ _	10		10	4	1 1,	550 j		_	50 1,0	72 2	97 12	1,49	3,0
Madras .	{	Nilgiris Anantapur	:	1 ::		1			31 197		1 10		53	19	7 13	
		TOTAL		2		2			228		2	28 1	57	19	7 18	3 4
		GRAND TOTAL (Gold).		12		12	4	1 1,7	78		1,77	8 1,22	19 31	16 18	31 1,670	3,4

Table No. 1—concld.

Indian Mines Act, 1901, Numbers of Mines and Workers, year 1907.

		under t.	NUMB	RE OF	M	BER OF	AVI	RAGE 1	NUMBER	B OF PE	RSONS THE MI	EMPLO NES.	ED DA	ILY IN .	AND
	District and Mineral	the Ac	MIN		DURI	PECTED NG THE EAR.	,	Below	GROUND	·.	[ABOVE	GROUND	•	Grand
PROVINCE.	field.	Number of mines under the scope of the Act.	Worked by steam.	Not worked by steam.	Once.	Twice or more.	Adult males.	Adult females.	Children (under 12).	Total below ground.	Adult males.	Adult females.	Childern (under 12).		Total below and above ground.
							. 1	IRO	N ORE	3					
Central Pro- vinces .	Jabalpur	1		1			12	40	10	62	2	4		6	68
Bengal .	Singhbhum	3		3							200	100	 	300	300
	GRAND TOTAL . (IRON ORE)	4		4			12	40	10	62	202	104		306	368
							J	MAG	NESIT	Έ.					
Madras .	Salem	1		1			23	41		64					64
							K	CH	ROMIT	E.					
Baluchistan .	Quetta-Peshin	4	1	3	, }		28			28	34			34	62
	-]	L.— C 0	PPER.						
Central Provinces	Jabalpur	1	1		<u></u>		46	···	{	6	10	37		47	98
Hengal .	Singhbhum	1	1				60	***		60	150	50		200	260
	GRAND TOTAL (COPPER)	2	2				106			106	160	87		247	353
								м.—.	JADE.					070	
Burma .	Myitkyina	3		3			406]	406	950			950	1,356
Central Provinces .	Jabalpur	1		1			8	N,—I	LEAD.	8	4	8		12	20
									TIN.	۲	41			41	41
Burma .	Mergui	6		6	···				"	\			 		<u> </u>
	GRAND TOTAL (ALL MINES).	1,057	271	786	203	76	64,095	32,850	1,879	98,824	32,674	16,266	4,219	53,159	151,9 88

Table No. 2.

Classified statement of fatal and serious accidents in and about mines regulated by the Indian Mines Act, 1901, during the year 1907.

		employed	Turing on	separate	Nu	MBER DEATH		ne non-	SONS	BER OI SERIO NJURE	CSLY	DEATH-1		
PROVINCE.	District and Mineral field.	Total average nu of persons emp	Total output.	Number of sefatal accidents.	Below ground.	Above ground.	Total deaths.	Number of serious fatal accidents.	Below ground.	Above ground.	Total number of persons injured.	Below ground.	Above ground.	Below and above ground.
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		Tons.		A.—C	OAL	•			}]			
Bengal {	Hazaribagh, Giridih Manbhum, Jharia Bankura, Burdwau, " Sonthal Parganas," Palamau, Daltonganj	7,628 50,330 5,609 45 31,920 23 43 703	750,874 5,179,185 474,299 6,254 3,499,482 1,624 257 81,873	2 32 4 26 	1 31 7 25 	3 3	28 35 7 28 	25 27 1 25	19 20 2 20 	6 11 5 	25 31 2 25 	21 -96 190 1·18 4·60	·32 ·21 ··· ·27 ···	·26 ·69 1·24 ···· ··· 2·84
	TOTAL .	96,301	9,993,348	65	66	8	74	78	61	22	83	1.06	.23	•76
Central Provinces . {	Chhindwara, Pench Valley Narsinghpur, Mohpani Chanda, Ballarpur	511 979 329	74,663 41.322 18,103	3					 	 	2 	7·79 	::: :	5·87
	TOTAL	1,819	134,088	3	3		3	2	2		2	2.59		1 64
Panjab	Jhelum	1,619 59 116	47,298 12,686 765	 	1	 		4	3	1 	4		 	
	TOTAL .	1,794	60,749	1	1		1	4	3	1	4	-89		•55
Eastern Bengal and $\left\{egin{array}{c} \mathbf{Assam.} \end{array}\right.$	Lakhimpur Sibsagar, Dikhu Valley	1,716	295,695 100	9	9		9	3	3		3	8·07		5·24
•	TOTAL	1,731	295,795	9	9		9	3	3		3	8.02		5.19
Baluchistan	Sibi, Khost Quetta, Sor Range Kalat, Mach and Digari Loralai, Loralai	706 154 172 12	29,378 7,517 5,393 200	1 1 	1 1 		1 1	2	2	 	2 	2 [.] 24 7 [.] 63		1·41 6·49
	TOTAL .	1,041	42,488	2	2	 	2	2	2		2	2.75	_ 	1.91
	GRAND TOTAL (COAL) .	102,689	10,526,468	80	81	8	89	89	71	28	94	1.22	·21	-86
,					B.— <i>l</i>	MICA	•	}	[Ì	<u>'</u>		
Bengal{	Monghyr Hazaribagh Gaya	452 8,746 1,485	Cwt. 781 22,212 5,636	2 4 1	8 1	::: -::-	8 1] _::_	10.45 1.63 .93		6.63 .91 .67
	TOTAL .	10,683	28,579	7	12		12					1.91		1.12
Madras	Nellore	7,121 33	15,645		 			2	4					
	TOTAL .	7,154	15,645					2	4		4			
Rajputana	Ajmer-Merwara	146	695	1	1		1		·			14:49		6.84
	GRAND TOTAL (MICA) .	17,983	44,919	8	13]	18	2	4		4	1.18		.72
Central Provinces	Nagpur Bhandara Balaghat Chhindwara	3,924 2,230 2,663 416	Tons. 181,875 141,183 161,047 12,468	4	C,- 3 	¹	4	NESI	OR	E. .::	9	 	2·85 	1·01
	Total	9,233	496,573	4		 1		9	1	8	9	738	.70	
Madras	Vizagapatam	8,419	125,820					1		1	1		·73	
Bombay {	Balgaum	1,099	19,689		 :::] :::	:::	:::	:::	:::	:::	::	***
`	Total .	1,099	19,689	_ ·				·				<u> </u>		
				ii	1	l		1	Ł.,	l		. (. 1	

Table No, 2-concld.

Classified statement of fatal and serious accidents in and about mines regulated by the Indian Mines Act, 1901, during the year 1907.

		number	•	parate		MBER EATHS		i i	BONB	ER OF SERIO	USLY	PER I	TH-BA ,000 PE PLOYE	BRONS
Province.	District and Mineral fields.	Total average number of persons employed daily.	Total output.	Number of separate fatal accidents.	Below ground.	Above ground.	Total deaths.	Number of serious fatal accidents.	Below ground.	Above ground.	Total number of persons injured	Below ground.	Above ground.	Below and above-ground.
			ŀ	_LIN	1EST	ONE					,			
Central Provin-	Jabalpur, Katni	2,993	Tong. 72,022	<u> </u>	ļ <u>.</u>	<u> :</u>		2	1	1	2		<u> </u>	<u> </u>
Panjab	Hoshiarpur	60	1,200											
	GRAND TOTAL (LIMESTONE)	3,053	73,222					2	1	1	2			
Panjab	Shahpur Jhelum	78 804 53	6,492 84,462 10,749	E.—S	"1	:::	₁	3	2	₁	 8	1 31	:::	1 24
	GRAND TOTAL (SALT)	930	101,703		1		1	3	2	1	3	1.15	-:	1.07
Burma .	Mogok (Rubies, etc.)	2,188	Carats. 296,125	F.—(jems 8	3. 	3	5	1	4	5.	32.96		1.36
			Tons.	G.—S	LAT	E.		}						
Bengal	Monghyr	385	2.286	ļ	 -			5_	1		5	···········		
Panjab	Gurgaon	286	2,684	ļ			<u> </u>	1		1				
	GRAND TOTAL (SLATE) .	671	4,970	···			<u> </u>	6		5	6			
Bomba y	Dharwar	3,043	Oz. 4,017	H.—G	iOLD 9	• 	9	4	4		4	5.80		2.95
Madras {	Nilgiris	84 327		2	3	:::	3	::-	:::	:::	:::	15:22	::	9.17
	TOTAL .	411	4,017	2	3		3					13.15		7:29
	GRAND TOTAL (GOLD) .	3,454	4,017	10	12		12	4	4	 	4	6.74		3· 47
entral Provin-	Jabalpur	68	Tons.	- IROI	N OR	ĺ	1							
Gengal	Singhbhum	300	1,136			- :: -	<u> </u>						·	
	GRAND TOTAL (IBON ORE) .	368	1,536											
Madras	Salem	64	J.—A 186	AGN 	ESIT	E.						•••		***
			K.—C	CHRO	MITE	3. ′			1				Ì	
Baluchistan .	Quetta-Peshin	62	771,206	COD	J					· <u>··</u>				_ _
entral Pro- vinces.	Jabalpur	93	L, -	- CO P	···	·								
lengal	Singhbhum	260					<u></u>						_:	
	TOTAL (COPPER)	353		}									<u> </u>	
Burma	Myitkyina	1,356	Cwt. 3,591	l.—J/]							· 		<u></u>
entral Pro-	Jabalpur	20	N	.—LE 	AD. 									•••
Burma	Mergui	41	Cwt. 273	0	TIN.									•••
	GEAND TOTAL . (ALL MINERALS).	151,983	Tons. 11,350.167 Carats. 296,125 Cwt. 819,988 Oz. 4,017	105	118	. 9	122	121	85	43	128	1:14	16	-80

Table No: 3.

The following table is a summary of the average number of persons working daily in and about mines regulated by the Indian Mines Act, 1901, during the year 1907.

	AVERAGE 1	UMBER O	PEBSONS W	ORKING DAIL	Y IN AND	ABOUT MINE	8 GETTING
Province.	Coal.	Mica.	Manganese.	Limestone.	Salt.	Other minerals.	Total persons.
Bengal	96,301 1,819	10,683	9,233	2,993		945 181	107,929
Central Provinces Madras		7,154				475	16,048
Eastern Bengal and	7 603	,					
Assam	1,731 1,044		••		***	62	1,731 $1,106$
Panjab	1,794	•••		60	930	286	3,070
Burma		•••			•••	3,585	3,585
Bombay Rajputana		146	1,099		***	3,043	4,142 146
Total 1907	102,689	17,983	18,751	3 ,053	930	8,577	151,983
Total in preceding year.	90,159	15,984		1,901	1,170	8,179	128,666
Difference .	+12,530	+1,999	+7,478	+1,152	- 240	+ 398	+23,317

Table No. 4.

QUANTITY OF MINERAL RAISED.

The following short summary shows the output of the principal minerals from mines regulated by the Indian Mines Act, 1901, for the year 1907.

Province.	Coal.	Manganese Ore.	Mica.	Limestone.	Salt.
	Statute Tons.	Statute Tons.	Statute Cwts.	Statute Tons.	Statute Tons.
Bengal	9,993,348 134,088 	496,573 125,820	28,579 15,645	72,022	
Eastern Bengal and Assam Baluchistan Panjab Rajputana Bombay Burma	295,795 42,488 60,74 	 19,689	 695	1,200	 101,703
Total in 1907 Total in preceding year	10,526,468 9,112,663	642,082	44,919 50,438	73,222 48,836	101,703 118,023
Difference .	+1,413,805	+205,640	-5,519	+24,386	-16,320

Table No. 5.

The following table shows the average number of persons working daily in and about mines regulated by the Indian Mines Act, 1901, during the years 1906 and 1907.

ALL MINES UNDER THE ACT.

Description of	Description of workers.			Year 1907.	Difference.
Adult Males Adult Females Children under 12	: :		Below ground. 53,817 24,921 1,420	Below ground. 64,095 32,850 1,879	Below ground. +10,278 +7,929 +459
TOTAL BELOW GI	ROUND .	. [80,158	98,821	+18,666
Adult Males . Adult Females . Children under 12	•		Above ground. 29,236 14,661 4,611	Above ground. 32,674 16,266 4,219	Above ground. +3,438 +1,605 -392
TOTAL ABOVE	GROUND.	. [48,508	53,159	+4,651
TOTAL BELOW AND AB	OVE GROU	ND .	128,666	151,983	+ 23,317

ALL COAL-MINES UNDER THE ACT.

Description of workers.	Year 1906.	Year 1907.	Difference.	
Adult Males	Below ground. 40,352 19,121 865	Below ground, 42,856 22,323 861	Below ground. + 2,504 + 3,202	
TOTAL BELOW GROUND .	60,338	66,040	+ 5,702	
Adult Males	Above ground. 18,846 9,422 1,553	Above ground. 23,411 11,666 1,572	Above ground. + 4,565 + 2,244 + 19	
TOTAL BELOW GROUND .	29,821	36,649	+ 6,828	
COTAL BELOW AND ABOVE-GROUND.	90,159	102,689	+12,530	

Table No. 6.

The following table shows the fluctuations in the output of the principal minerals raised from mines classed under the Indian Mines Act, 1901. The other minerals raised are gems, slate, gold, iron ore, magnesite, chromite, tin and jade.

	Y	ear.		Coal.	Manganese Ore.	Mica.	Linestone.	Salt.	
				Tons.	Tons.	Cwts.	Tons.	Tons.	
1899				4,622,242	87,126	10,860] 1,177	78,754	
900				5,452,408	92,458	18,320		79,996	
901				6 251,522	162,057	19,900	28,000	9.1,242	
1902	-	-		6.790,507	144,037	21,360	30,091	87,361	
1903	•	•	·	6.812,725	171,223	20,100	35,238	90,667	
904		•	:	7,561,338	138,733	21,320	50,847	107,413	
1905	•	•	-	7,770,471	204,194	25,548	93,170	94,078	
1906	•	•	•	9,112,663	436,442	50,438	48,836	118,023	
907		•	•	10,526,468	642,082	44,919	73,222	101,708	

Table No. 7.

The following table shows the amount of coal raised, the average number of persons working daily and the death-rates during the years 1899 to 1907 in respect of coal mines under the Indian Mines Act, 1901.

		,	1		(DEATH-	BATES.
			Amount of coal raised. Amount of ground. Average number of persons working daily below and above ground.		Number of deaths below and above ground.	Per 1,000,000 tons raised.	Per 1,000 per sons working daily below and above ground.	
1899	•		-	4,622,242	65,795	78	15:79	1.11
1900				5,452,408	80,003	52	9.53	•64
1901				6,251,522	85,861	58	9.28	.67
1902				6,790,507	89,503	59	8.69	•66
1903				6,812,725	79,561	67	9.83	·8 4
1904			•	7,561,338	82,002	55	7.27	·67
1905				7,770,471	79,506	58	7.46	.72
1906				9,112,663	90,159	80	8.78	-89
1907				10,526,468	102,689	89	8.45	·86

Table No. 8.

Statement showing the output of coal, the number of persons employed and the number of tons of coal raised per person employed in and about the coal mines of the principal coal-producing countries of the world.

Үвав.	Countries	s.			Tons of coal raised.	Persons employed.	Tons raised per person employed.
1906	United Kingdom			•	251,067,628	867,152	289
1905	United States		•		384,598,643	626,315	614
"	Germany .				171,017,283	548,277	311
,,	Austria .				34,710,381	119,261	291
,,	France		a		34,652,229	175,104	197
"	Belgium .				21,775,280	134,747	161
,,	Nova Scotia .	٠		•	5,050,420	10,780	468
"	British Columbia				1,384,312	4,407	314
,,	Australia .				7,495,956	14,019	584
,,	Natal				1,129,407	5,650] [, 199
"	Transvaal .		•		2,606,799	8,988	290
j,	Japan		•		11,356,543	78,477	144
1908	Russia .				17,581,324	105,774	160
	Totals and avers	ıge	•	. •	944,426,205	2,698,951	34
1907	British India	•			10,526,468	102,689	10:

Table No. 9.

Fatal accidents and deaths in mines regulated by the Indian Mines Act. 1901, during the year 1907, classified according to the mineral worked.

		 			NUM	BER (OF DE	ATHS	J		ABOVE
		9 fati	В	ELOW	GBOU1	īD.	1	BOVE	GROUI	ND.	
Minebal,	PROVINCE AND MINERAL AREA.	Number of separate fatal accidents.	Adult males.	Adult females.	Children (under 12).	TOTAL.	Adult males.	Adult females.	Children (under 12).	TOTAL.	TOTAL BELOW AND
	Baluchistan	2	2			2					2
	Bengal Daltongunge . Giridih Jharia Baniganj	1 2 36 26	2 34 21	 1 4		2 1 38 25	 1 3 3	 1	 	 1 4 3	2 2 42 28
COAL	Total (Bengal) .	65	57	9		66	7	1		8	74
	Central Provinces	3	2	1		3				<u> </u>	3
	Eastern Bengal and Assam	9	8	1		9					9
. (Panjab	1	1			1			·		1
	TOTAL COAL .	80	70	11_	.,	61	7	1		8	89
MICA	Ajmer-Merwara	1	1			1					1
MICA	Bengal	7	12			12					12
	TOTAL MICA .	8	13			13					18
Manganese .	Central Provinces	4	3			8	1			1	4
Gems	Burma	2	8			8		,		, " " -	3
GOLD	Bombay	8	9			9	:				9
	Madras	2	8		•••	3					3
· <u>-</u>	TOTAL GOLD .	10	12			12					12
SALT	Panjab	1		1	<i></i>	1				`	1
OPAND TO	TAL, ALL MINERALS .	105	101	12		118	8	1		9	122

Table No. 10.

Fatal accidents and deaths classified according to causes.

			1907.		
CAUSES OF ACCIDENTS.	Number of		Dra	гня.	
	separate accidents.	Adult males.	Adult females.	Children (under 12).	Total.
BELOW GROUND.					
Explosions of fire-damp	3	5			5
•				1	
Falls in Mines.			ļ i		
Falls of roof	26	24			_
", ", side	22	26	5 2		29 28
Total .	48	50	7		57
			<u> </u>		
In Shafts.					
Ropes and chains breaking	1	1		ļ <u></u>	1
Falling into the shaft from the surface	2 3	3 3			3 3
Falling from part of the way down Things falling from the surface	. 7	7		***	3
Things falling from part of the way down	$\begin{bmatrix} 2 \\ 2 \end{bmatrix}$	2 2		•••	2
Miscellaneous	3	2	"i	***	2 3
TOTAL	. 20	20	1		21
		-	-		
Miscellaneous below ground.					
Suffocation by gases	. 2	2			
By explosives Irruptions of water or falling into water	10 2	10	ï		11
Haulage Sundries underground	. 9	3 9	1 1	•••	4
oundres underground	. 3	2	i		10
TOTAL	. 26	26	4		30
TOTAL BELOW GROUND	. 97	101	-		
		101	12		113
ABOVE GROUND.					
By surface machines		1			
On surface railways and tramways		2			2
surrace .	5	5	ï	***	1 6
TOTAL ABOVE GROUND	. 8	8	1		
Total below and above ground					9
PER PROGRAMME GROUND	105	109	13		122

Table No. 11.

ACCIDENTS, 1907.

Classified according to cause and mineral worked.

	ccidents.				Numb	ER OF	PERS	ons ki	LLED.				1,000	H BATI) PERS	ONS
MINEBAL WOBKED.	Number of separate fatal accidents.	Explosions of fire-damp.	Falls of roof.	Falls of side.	In shafts.	Explosives.	Suffocation by gases.	Irruptions of water or falling into water.	Haulage.	Miscellaneous below ground.	Surface.	Total deaths.	Below ground.	Above ground.	Below and above ground.
Coal	80	5	23	13	19	4	2	4	10	1	8	89	1.22	-21	-86
Mica	8		3	6	1	3					·	13	1.18		-72
Manganese	4			. 3	•••	.,,					1	4	-18	•37	21
Gems	2		•••	8				•••				3	32.96		1.36
Gold	10		3	. 3	1	4				1		12	6°74		3.47
-Salt	1								·••	1		1	1.15		1.07
•••												-			
Total, 1907	105	5	29	-28	21	11	2	4	10	3	. 9	122	1-14	•16	-80
Total, preceding year.	84	4	24	27	20	4	4		11	3	9	106	1.21	•19	·82
Difference .	21	1	5	. 1	.1	7	-2	_4,	-1		•••	16	7	3	-2

Table No. 12,

Statement of Prosecutions instituted under the Indian Mines Act (VIII of 1901) during the year ending 31st December 1907.

Province.	District.	Number of prosecutions.	Number of persons prosecuted.	Number convicted.	Remarks.
Central Provinces	Chhindwara	• • 1	• 1	1	Under section 22 (2) (b) of the Indian Mines Act,
Bengal	Monghyr	. 1	1	1	1901. Ditto.

Table No. 13.

Number of Inspections by District and other Officers, 1907.

	•						Numbe b	OF MINES	INSPECTED.
D	istrict and Miner	ral area	•				Once.	Twice,	More than twice.
D1	COAL.								
Bengal— Burdwan			١				4	l	,
Palamau, D	altonganj		Rar	iganj		- ∤	1		
Sonthal Par	rganas, Rajma	hal	J			U	 1	•••	•••
Hazaribagh Manbhum-	Giridin Iharia	•	•	•	•	•	3		•••
·	o nama (•	•	•	•				
							9	•••	
Eastern Bengal and	 Assam—Lakhi	impur					1		•••
Baluchistan .	•	•	•	•	•		1	1	
	Тот	AL AT	Сол	. Min	ES		11	1	·
	MICA.		-			1			
Bengal—Hazaribagh		•		•	•		2		
Madras—Nellore		•	•	•			6	1	4
	То	TAL A	т Мю	a Mi	n es		8	1	4
	MANGANE	SE.					· · · · · · · · · · · · · · · · · · ·		·
(Balaghat		U			. [•••		1
Central Provinces	Bhandara	•	•	•			2		
. i	Nagpur Chhindwara	•	•	•	•	•	·ï	1	
•	Chumuwara	•	•	•	•	•		<u> </u>	
							8	1	1
Madras—Vizagapata	m.	• .		•			1		
Bombay—Panch Ma	hals .	• :	. •					1	
	Тотац ат	Min	(C 4 N/D)	na Mar	3.770 0				
	LIMESTO		GANE	PE 1411	NES	•	4	2	1
Central Provinces	• .		•				12		-
	GEMS.							""	
Surma-Ruby Mine		•	•				7	` <u> </u>	
	IRON OR	Е.							
Bengal—Singhbhum		•	•	•			3		
		GR.	AND	ም ር ጥ	A.T.		45	4	5

Table No. 14.

Mines opened and closed during the year ending 31st December 1907.

Province. District.	Number of mines opened.	Number of mines closed.
A.—COAL		
Hazaribagh-Giridih	. 2	1
Manbhum, Jharia	. 49	4
. , Raniganj	. 14	1
Burdwan ,,	. 8	. 2
Santhal Parganas		2
Palamau, Daltonganj	. 1	
TOTAL .	74	10
Mianwali		
ANJAB Jhelum , ,	. 8	2
TOTAL	8	3
ENTRAL PROVINCES	. 2	,,,
BALUCHISTAN	, 1	
Total (COAL)	85	13
B.—MICA.		
(Monghyr		
Hazaribagh	. 27	11
TOTAL	27	11
fadras Nellore	25	17
Ajper-Merware Ajmer-Merware	1	2
		
TOTAL (MICA)	53	30

APPENDIX II-concld.

Table No. 14-concld.

Province.	District.	Number of mines opened.	Number of mines closed.
	C.—MANGANESE ORE.		
MADRAS	Vizagapatam	21	10
Bombay	Panch Mahals	1	***
	Nagpur	2	2
CENTRAL PROVINCES	Balaghat	1	1
. (Bhandara	1	
•			
Total .	·	4.	3
Total (Manganebe)		26	13
			
	D.—LIMESTONE.		
CENTRAL PROVINCES	Jabalpur	6	
	E.—LEAD.		
BENGAL	Sambalpur	1	1
		. , ,	
	F.—GOLD.		
MADRAS	Nilgiris	**.	1
Вомбач	Dharwar	6	2
Total (Gold) .		6	3
	G.—IRON.		
CENTRAL PROVINCES	Jabalpur	_1	1
•			
e •	H.—SLATE.		
Panjab	Gurgaon	1	, ,
•	I.—CHROMITE,	•	<u></u>
Вационівтай	Quetta-Peshin	4	1

APPENDIX III.

Table No. 1.

Inspections and enquiries made under Section 5 of the Land Acquisition (Mines) Act, 1885, during the year ending 31st December 1907.

Registered number.	Name of mine and description of land acquired.	Name of the owner of the mine.	Date of gazetted declaration.	Name of Inspector making the enquiry.
57	Bhowra Coal Mine— Bhowra Branch and siding, Midnapur- Jharia extension of the Bengal-Nagpur Railway.	Eastern Coal Co., Ld	27th April 1907	G. F. Adams.
64	Sudamdih Coal Mine— Pathardih link of the Bengal-Nagpur Railway.	Empire Coal Co., Ld	• • • • • • • • • • • • • • • • • • •	Ditto.
65	Puddugora Coal Mine— Bengal-Nagpur Railway Company's Station Mohoda.	Bengal Coal Co., Ld	4th March 1907	Ditto
68	Gobindpur Coal Mine— Katras-Khanudih extension of the Jharia Branch of the East Indian Railway.	Gobindpur Coal Syndicate.	12th April 1907	Ditto.
69	Banksimulla Coal Mine— Banskimulla siding, Toposi-Baraboni Branch of the East Indian Railway.	Bengal Coal Co., Ld	13th May 1907	R. R. Simpson.
7 0	Bhowra Coal Mine— Bhowra Branch, Jharia connection line of the Bengal-Nagpur Railway.	Eastern Coal Co., Ld	9th July 1907	G. F. Adams.
71	Bhaga Coal Mine— Bhaga Branch of the East Indian Railway and the Bhaga assisted siding.	Jharia Colliery Co., Ld.	12th September 1907 .	Ditto.
72	Baraboni and Jairamdanga Coal Mines— Bhuskajuri siding of the East Indian Rail- way.	New Beerbhum Coal Co., Ld.	15th July 1907	R. R. Simpson.
75	Kuordih Coal Mine— East Indian Railway Company's main line.	Kuordih Coal Co., Ld		W. T. Griffiths.
76	Tetturia Coal Mine— Katrasgarh-Khanudih extension of the Ikra Branch of the East Indian Railway.	West Tetturia Collieries	10th October 1907 .	G. F. Adams.
77	Kustore Coal Mine— Bhaga Branch of the Bengal-Nagpur Railway and assisted sidings.	Raniganj Coal Associa- tion, Ld.	. 6th January 1908	Ditto.
:78	Bagdiggi Coal Mine— Damuda Branch of the East Indian Railway.	C. J. Smith	26th February 1908 .	Ditto.
·80	Jealgora Coal Mine— Jealgora siding off the Damuda Branch of the East Indian Railway.	East Indian Coal Co., Ld.	17th March 1908 .	Ditto.
-81	Lower Kusunda Coal Mine— North Kustore siding off the Damuda Branch of the East Indian Railway.	Kusunda and Nayadi Collieries, Ld.		Ditto.
82	Hathgarooye Cosl Mine — Sitarampur-Ikra Branch of the East Indian Railway.	Lutchipur Coal Co., Ld	14th January 1908 .	James Grandy.
83	Kally Than Surataur Coal Mine— Surataur assisted siding of the East Indian Railway.	K. B. Seal		G. F. Adams.
84	Mudidih Coal Mine— Sijua siding of the East Indian Railway.	Reliance Coal Co., Ld.		Ditto.
85	Nuni Coal Mine— No. 6 Pit and Nuni siding of the East Indian Railway.	Baraboni Coal Concern, Ld.	29th April 1908	James Grundy.
86	Joba Coal Mine— East Indian Railway Company's siding between Raniganj and Kalipahari.	Eastern Coal Co., Ld	9th March 1968 .	R. R. Simpson.

Table No. 2.

Inspections and enquiries made under Section 11 of the Land Acquisition (Mines) Ac 1885, during the year ending 31st December 1907.

		year ending Sist L		
Registered number.	Name of mine and description of land acquired.	Name of the owner of the mine.	Date of declaration.	Name of Inspector maki the enquiry.
4	Benahir Coal Mine—. Surataur siding of the East Indian Railway.	Standard Coal Co., Ld	11th April 1908	G. F. Adams.
5	Dheriajoba Coal Mine— Jharia-Katras Branch and Damuda Branch of the East Indian Railway.	Jharia Coal Syndicate, Ld.		Ditto.
9	Alkusa Coal Mine— Damuda Branch of the East Indian Railway and certain assisted sidings.	Raniganj Coal Association, Ld.	5th February 1908 .	Ditto.
12	Kusunda and Nayadi Coal Mine— Kustore siding and the Damuda Branch of the East Indian Railway.	Kusunda and Nayadi Collieries, Ld.	101-102	Ditto.
13	Bhuskajuri Coal Mine— Bhuskajuri siding of the East Indian Railway.	Bhuskajuri Coal Co., Ld.		James Grun <u>d</u> y.
18	Bhuggutdih Coal Mine— Assisted siding of the East Indian Railway.	Bengal-Nagpur Coal Co., Ld.		G. F. Adams.
23	Surataur (Kadmogora) Coal Mine— Surataur siding of the East Indian Railway.	P. K. Roy		Ditto.
24	Sijua Coal Mine— East Indian Railway Company's siding .	Sijua Coal Co., Ld	2nd December 1907	Ditto.
34	Salanpur Coal Mine— Salanpur Branch of the East Indian Railway.	Borrea Coal Co., Ld.		James Grundy.
35	Bagdiggi Coal Mine— Damuda Branch of the East Indian Railway and assisted siding.	C. J. Smith		G. F. Adams.
73	Raghunathbatty Coal Mine— Ikra Branch of the East Indian Railway,	Sudihi Coal Co., Ld		James Grundy.
74	Mugma Coal Mine— Pandra Branch, Jharia Branch of the East Indian Railway.	J. C. Dutt	23rd January 1908 .	Ditto.
78	Bagdiggi Coal Mine— Dawuda Branch of the East Indian Railway.	C. J. Smith	26th February 1908 .	Ditto.
79	Lover Kusunda Coal Mine— North Kusunda siding, Damuda Branch of the East Indian Railway.	Kusunda and Nayadi Collieries, Ld.	, 	G. F. Adams.
84	Mudidih Coal Mine— Sijua siding of the East Indian Railway.	Reliance Coal Co., Ld	13th May 1908	Ditto.
88	Ekra Khas Coal Mine— Extension of Eara Khas siding of the East Indian Railway.	Maharaja M. C. Nandi .	*****	Ditto.
89	Encroachment on land acquired for the Jinagora Branch of the East Indian Railway.	By Gova Petha & Co. and the East Barari Coal Co.	10th March 1908 .	Ditto.
90 E	South Baraboni Coal Mine— Ikra Branch of the East Indian Railway.	South Baraboni Coal Co.	25th April 1908	R. R. Simpson.

Table No. 3.

List of plans of abandoned and discontinued mines received during the year 1907.

Registered number.	Name and situation of mine.	Name and number of seam.	Name of mineral worked.	Name of owner.	Date of abandonment or discontinuance.
23	Budruchak Mine, Sijua P. O., Manbhum, Bengal.	No. 15 Top Seam .	Coal	Sijua Coal Co., Ld	March 1905.
24	Kessabganj Mine, Kalipahari P. O., Burdwan, Bengal.	Dobalia or Lower Kalipahari Seam.	Do	G. M. Agreeable Coal	March 1905.
25	New Baraboni Mine, Charanpur P. O., Burdwan, Bengal.	Baraboni Lower Seam.	Do	New Baraboni Coal Co.	November 1905.
26	New Nandi Mine, Nandi P. O., Burdwan, Bengal.	Nandi Seam	Do	Sasi Bhusan Mukherji	28th February 1907.
27	No. 1 East Ara Mine, Katha Colliery, Abbottabad, Panjab.	Not named nor numbered.	Do	Panjab Çoal Co	December 1906.
28	Nalli Mine, Katha P. O., Shahpur, Panjab.	Not named nor numbered.	Do	Malik Mohan Singh.	January 1907.
29	Pits Nos. 2 and 5, Ghusik Mine, Kalipahari P. O., Burdwan, Bengal.	Ghusik Seam	Do	Baliram and Co.	1895.
29A	Pits Nos. 1 and 2, Srikistopur Mine, Kalipahari P. O., Burdwan, Bengal.	Ghusik Seam .	Do	. Ditto	Pit No. 1, about 1898. Pit No. 2, about 1905.
30	Incline No. 1, Napara Mine, Asansol P. O., Burdwan, Bengal.	Napara Top Seam	Do.	Maharaja M. C. Nandi	1905.
31	Jairamdanga Mine, Asansol P.O., Burdwan, Bengal.	Jairamdanga Upper Seam.	Do	New Beerbhum Coal Co , Ld.	June 1903.
32	Pits Nos. 3, 34, 35, and 37, Dhadka Mine, Asansol P. O., Burdwan, Bengal.	Dhadka Seam .	Do	. Ditto	June 1903.
33	Inclines Nos. 4 and 5, Kustore Mine, Kusunda P. O., Manbhum, Bengal.	No. 15 Seam	Do	Raniganj Coal Association, Ld.	2nd August 1907.
34	Inclines Nos. 5, 6 and 9, Gararia Mine, Kusunda P. O., Manbhum, Bengal.	No. 9 Seam .	Do	Tribhuban Das Howji	14th September 1907.
35	Open quarry, Katras Mine, Katrasgarh P. O., Manbhum, Bengal.	No. 14 Seam	Do	Katras Jharia Coal Co., Ld.	September 1907.

Table No. 4.

MINING COURSE AT THE SIBPUR CIVIL ENGINEERING COLLEGE.

Students are admitted to the special mining course who have passed the Sub-Overseer examination (requiring two years' work at the College), or an equivalent examination at some other technical college. The diploma is granted to successful students after a further two years which includes the special mining course, a detailed syllabus of which is appended.

The course of training undergone by the mining students also includes Mathematics, Physics, Chemistry, Surveying, Drawing, Engineering, and Workshops (practical). Detailed syllabuses of these courses are to be found in the College Calendar (Apprentice class).

A Bachelor of Engineering (Calcutta University) Degree in Mining is also under contemplation, the course to run parallel with the Bachelor of Engineering Degree courses in Civil, Mechanical, and Electrical Engineering.

The number of students taking the Mining Course at Sibpur College during the Session 1907-08 was thirteen, of whom five will sit for the Diploma examination in April 1908. These students all attended the Camp of Mine Surveying and Practical Mining, which was pitched at Gaurangdi during November and December 1907. A good sign is the demand in the coal-fields for passed students, which is considerably greater than the supply. All those who obtain diplomas this year have positions with good prospects assured to them, and those too who may fall to secure the diploma have been spoken for.

The new practical mining laboratory is now under way. The Professor of Mining, in consideration of the conditions of mining in Bengal, has designed the practical laboratory work with a special view to coal, — particularly washing, briquetting, and coking,—in which lines there is no doubt it will be most profitable for the students to specialise. Meanwhile they will assist in the erection of the laboratory, and the fitting of such machinery as has arrived.

DETAILED MINES SYLLABUS.

COURSE I.

Geology applied to Mining.—(One lecture per week.)

Stratified and unstratified rocks. Faults, foldings, etc. Work done by rivers and glaciers.

Rock-forming minerals. Introduction to study of fossils. Principal rock formations and descriptive outline of corresponding fossils. Special reference to the geology of India. Mountain and river systems. Metamorphic rocks. Dravidian and Aryan groups. Coalbearing formations. Laterite formation.

Geological maps and sections. Methods employed in their construction. Field geology.

Mining Engineering.—(Two lectures per week.)

Boring by hand and power machines. Lining boreholes. Speeds and costs of various

methods of boring compared.

Sinking through alluvial ground. Bogey, dumping-chain, folding-doors. Shaft-walling. Sinking and walling simultaneously. Tubbing a shaft. Sinking through sands and gravel and watery strata. Piling method. Iron Drum and Kind-Chaudron methods. Freezing processes. Tiger's method.

Mechanical haulage. Jig bank. Direct haulage. Main and tail rope. Endless rope. Modes of application of power. Size of engine required for given work. Tensioning the rope. Hoisting. Wood, steel, and rope guides. Safety cages and appliances. Koepe and Whiting systems. Rope-capping and cage couplings. Winding ropes. Safety factor.

Mining legislation with reference to shafts, hauling, winding, timbering, shot-firing, inspection of working places, and mine plans.

Coal mining.—(One lecture per week.)

Methods of working coal. Development of bord-and-pillar working. Main distinctions Methods of working coal. Development of bord-and-pillar working. Main distinctions between longwall and bord-and-pillar workings. Thrust and creep. Shaft pillars. Haulage roads and their protection. "Whole" and "broken" working. Timbering of ditto. General remarks on removal of pillars. Timber withdrawal. Longwall working. Timbering and packwalls. Thick coal-working. South Staffordshire method. Indian and American methods. Special instances. Single and double stall working. Steep seam workings. Rearer workings of North Staffordshire.

Shot-firing. Coal-cutting by machinery. Different types of machines and their uses. Working under the sea or large bodies of water. Surface subsidence.

Coal-mine plans and sections. Connecting surface and under-ground surveys.

Metal Mining.—(One lecture per week.)

Description of veins, pockets, shoots, chimneys. Lenticular masses.

Prospecting for minerals. Alluvial mining and open working. Ore beds and deep leads.

Dredging for gold. Overhand and underhand stopping. Working a thick mineral vein. Timbering of metal mines. Square-set timbering. Shaft-timbering.

Hand and power drilling. Pneumatic and electric drills. Blasting. Metal mine plans.

Table No. 4-concld.

COURSE II.

Descriptive Mineralogy.—(One lecture per week.)
Important minerals and ores. Fuels and allied materials. Methods of determination of minerals. External characteristics. Specific gravity. Forms of minerals. Systems of crystals and examples. Blowpipe assay. Scale of fusibility. Tests on borax, microcosmic salt and charcoal. Tests with nitrate of cobalt.

Special reference to ores of iron, antimony, baryta, zinc, tin, mercury, copper, lead, manga-

nese, gold, and silver.

Mining Engineering.—(One lecture per week.)

Drainage of mines. Adit levels. Water-buckets, Lift and force pumps. Surface arrangements for draining a sinking pit. Cornish and Hathorne-Davy pumps. Direct-acting steam pumps. Pulsometer. Centrifugal pumps. Hydraulic pumps. Auxiliary pumps for feeding up to the main pump.

Approaching old workings. Dams.

Ventilation. Stoppings, doors, regulators, air-crossings. Practical work in plan ventilation. Dumb drifts. Capell, Waddle, and Guibal fans. General reference to types of fans. Water-gauge and anemometer. Treatment of gob-fires.

Power-application in a mine. Relative merits of steam, water, compressed air, electri-

city, and oil as sources of applied power.

Indian Mines Acts, and legislation germane to mining.

Coal Mining.—(One lecture per week.)

Description of gases found in mines. Fire-damp. Colliery explosions. Spraying apparatus. Principles and construction of safety lamps. Types of safety lamps. "Caps" on safety lamp flame. Instruments for detecting fire-damp:—opal spectacles, Liveing's and Ansell's indicators, alcohol lamp, hydrogen lamp, Beard-Mackie lamp. Treatment of persons overcome by foul air.

Surface arrangements at a colliery. How they are made automatic as far as possible. Sorting and screening. Tipplers, creepers. Coal-washing,—types of machines. Coking—types of ovens. Recovery of bye-products.

Metal Mining.—(One lecture per week.) Ore-dressing. Concentration by means of water. Blake crusher. Dodge crusher. Gyratory crushers. Huntington mill. Stamp batteries. Materials required for running a stamp battery. Classification of pulverisers. Arrastra. Amalgamating pans. Jigs, and jigproducts. Magnetic separation. Roasting for magnetism. Pneumatic separation. Less important methods of concentration.

Fine sand and slime concentrators. Vanners, pumping or jerking tables; film-sizing tables. Prospector's cradle. Treatment of refractory ores, sands, and slimes. Cyanide and

chlorination treatment.

PRACTICAL MINING AND MINE SURVEYING.

Students are required to spend six weeks in camp, each year of the course, in a mining district, of which about three weeks will be devoted to the surveying of an actual working mine, the remainder of the time being spent in visiting and inspecting the workings and equipment of mines in the vicinity. The surveying will consist of a plan of the mine, with surface connections, and one or more sections along a haulage road. The plan and sections, and the notes on mine equipment made during camp, will form the basis of the "Attested drawings. and designs" required from the Degree students.

ATTESTED DRAWINGS AND DESIGNS.

(1) Plan of mine workings, based on survey done in camp, suited for an output of 1,500 tons per day, showing surface buildings, railways, waterways, etc., and pillars left for their protection; showing also doors, regulators, stoppings, etc., for ventilation purposes. On a scale not smaller than 100 ft. to the inch.

(2) Section of a haulage road, showing new formation level for purposes of installing

mechanical haulage.

(3) Section of upcast shaft, showing fan-drift, fan-house, and fan.
(4) Vertical section of downcast shaft, showing pumps, steam-pipes, cages.

(5) Plan of downcast shaft.
(6) General plan of surface arrangements, showing position of tipplers, screens, cokeovens, boilers, engines, etc.

(7) Section of portion of shaft, to show walling curb and brick work and wedging curb with tubbing.

Table No. 5.

MINING INSTRUCTION IN BENGAL.

Preliminary.—The scheme of instruction is designed to afford facilities for persons employed in Coal-mines to be trained in the Principles of Mining.

The following centres have been established and Sub-Committees appointed:

RANIGANJ DISTRICT.

Charanpur Centre. Sanctoria Centre. · Mr. Jas. Grundy. Mr. Jas. Grundy. R. Mitchell. $\mathbf{W}\mathbf{m}$. Miller. ,, ,, E. M. Patterson. G. F. Scott. " A. Russell. W. McFarlane.

JHARIA DISTRICT.

Sijua Centre. Jharia Centre. Mr. G. F. Adams., H. C. Veasey. Mr. G. F. Adams. J. J. Turnbull. " E. H. Bennertz. Geo. Miller. ,, A. Gregory. W. J. Wood.

The Mining Instructor will visit each centre once a week.

The course of instruction, consisting of about 25 lectures, will commence in November 1907 and continue to the beginning of the rainy season, 1908.

An examination will be held at the end of the course.

A candidate who passes the examination will receive a certificate recording his success. A prize of books will be given by Mr. Grundy to the candidate who obtains the highest number of marks. No candidate, however, will be permitted to sit for examination unless he has attended seventy-five per cent. of the lectures.

SYLLABUS OF THE COURSE OF INSTRUCTION.

The course will treat principally of the more practical operations in actual mining, with special reference to India, and the principles underlying such operations will be thoroughly discussed.

Special attention will be paid to the various methods of working thick seams.

Geology.—General structure of the crust of the earth: Definitions and descriptions of fault, dyke, outcrop, dip, strike, unconformity, etc., composition and properties of coal; special reference to the coal measures in India: Importance of recording results of observations.

Exploration.—Advantages of borings; driving through faults, washouts; dykes, etc.;

methods of maintaining the direction and gradient of such drivages.

Boring and Winning.—Different systems of boring; choice of methods; cost of boring. Winning coal by inclines, adits, shafts, shafts and crosscut.

Sinking.—Site of Colliery; position of shafts; excavation and shape; blasting with use of safety fuse and electric battery; explosives and detonators, their safe storing and handling; lining the shafts and scaffolding; sinking pit, banking arrangements, bowks, water-barrels, bull chain and hook, etc. Special difficulties in sinking and how to deal with them.

Opening out and methods of working.—Shafts pillars; arching or supporting the pit bottom; quarrying; pillar and stall; double road stall; long wall.

Thick coal.—Methods of working in South Staffordshire and Warwickshire, in Upper Silesia and France; methods of working thick seams by long wall, by inclined slices, and by

horizontal slices, also the Rabatage System.

Timbering and Supporting.—Fixing of props and double timber; chocks or cogs; special methods of timbering to withstand pressure from the roof, sides and floor; securing dangerous holes in the roof due to heavy falls; use of iron or steel girders; stowing and packing; arching.

Gases met with in coal mines.—Their experimental preparation by chemicals and illustration

of their physical and physiological properties; methods of detecting; explosion and gob fires.

Ventilation.—Natural and artificial methods; coursing the air; use of stoppings,

Ventilation.—Natural and artificial methods; coursing the air; use of stoppings, brattices, doors, airbridges, regulators, etc.; measuring the quantity of air, use of thermometer, barometer, water-gauge, anemometer; the friction of air in mines and the elementary theory of

Safety lamps.—Theory of the safety lamp, Sir Humphrey Davy's Experiment; the Davy lamp, the Clanny and Thomas and Williams lamps, the Marsaut and Mueseler lamps; fire-damp

Mechanical Engineering of Collieries .- Winding engines, discussion of the different types, calculation of the dimensions of cylinders, length of stroke, diameter of drum, etc.;

Table No. 5-concld.

strength of winding ropes and chains, detaching hooks, capping winding ropes, care and examination of ropes.

Pumping.—Importance of a good system; measurement of quantities of water; lifting and forcing pumps; pumps for sinking; temporary and permanent pumps; calculation of dimensions; of pumps to perform a given duty, etc., strength of pipes, methods of supporting; different types of joints.

Hauling.—Tramways, tubs and wagons; conveyance by self-acting inclines; single-rope haulage; main and tail; endless rope; endless chain; calculations concerning inclines, sizes of

Surface arrangements.—Boilers, Cornish, Lancashire, and water-tube types; boiler fittings, injectors, and steam-pipes, etc.; boiler explosions, incrustation, corrosion, and priming; calculations on boilers; Heap steads: arrangement of roads around pit bank; simple screening and sizing.

*Transmission of power by steam, compressed air, and electricity; discussing the relative

merits of each system.

Coke.—Its production and composition; different types of ovens; recovery of bye-products.

Table No. 6.

DEPARTMENT OF MINES IN INDIA.

Regulations made by the Board of Examiners under Rule 30 of the rules applying to coalmines made under Section 20 of the Indian Mines Act, 1901, for the conduct of examinations for manager's certificates of competency.

- (1) No member of the Board of Examiners shall act as a local examiner, except in emergent cases.
- (2) When possible one or more members of the Board of Examiners shall attend every examination on at least one of the days.
 - (3) So far as is practicable, the local examiners shall be:-

(a) An Inspector of Mines, who shall be Secretary to the local examiners.

- (b) Two Mining Engineers or Colliery Managers who must be the holders of first class certificates. Provided that a Mining Professor may be appointed instead of one of the Mining Engineers or Managers.
- (4) The remuneration of each local examiner shall be R150 for each examination, and a capitation fee of R2 for each first class candidate and R1 for each second class candidate examined, and travelling expenses and halting allowances on the first class scale under Civil Service Regulations; but an Inspector of Mines, acting as a local examiner, shall not be entitled to any fee or remuneration whatsoever, beyond the travelling expenses and halting allowances due to him in his official capacity.
 - (5) The subjects for examination shall be:-
 - (a) Arithmetic and handwriting.
 - (b) Practical and theoretical coal-mining, including surface and underground arrangements, sinking, timbering, ventilation, gases met with in coal mines, a knowledge of plans, surveying and levelling, and of the various instruments used in mining. Questions may also be asked upon geology, sanitation, hydraulics, explosives, safety lamps and similar subjects. The candidates may also be required to show how to arrange the ventilation and haulage of a mine on a given plan.
 - (c) Practical mechanics, including steam, steam-engines, steam-boilers, pumps and strength of materials; and questions may be asked upon electricity and compressed air as applied to coal mining.
 - (d) The Indian Mines Act, 1901, and rules made under the Act.
- (6) The examinations shall be both written and oral, and the subjects and conditions shall be the same for candidates for both classes of certificates; but the examination questions shall be made suitable for each class of certificate.

Table No. 6-concld.

(7) The following shall be the maximum number of marks given for each subject :-

				F	IBST CLAS	8.	Smo	OND CLASS	s
Subject.				Papers.	Viva voce.	Total.	Papers.	Viva voce.	Total.
(a) Arithmetic and handwriting			•	50		50	50		50
(b) Mining		•		160	60	22 0	140	80	2 20
(c) Mechanics			•	110	40	150	100	50	150
(d) Indian Mines Act .				60	20	80	50	30	80
	То	TAL		380	120	500	340	160	500

(8) No candidate who fails to obtain 66 per cent. of the total number of marks, or 33 of its candidate who lais to obtain 90 per cent. of the total number of marks, or 33 per cent. in either of the subjects of mining or mechanics, shall be passed by the examiners, and if a candidate fails to obtain 33 per cent. of the marks given for either of the subjects of Arithmetic and Handwriting or the Indian Mines Act, any marks he may have obtained in such subjects shall not be included when the total is determined.

(9) Before each examination each candidate shall declare whether he presents himself for a first or second class certificate. No candidate for a second class certificate shall be eligible at that examination for a first class certificate, but a candidate for a first class certificate, who does not reach the necessary standard, may, nevertheless, at the discretion of the local examiners, be recommended to the Board of Examiners for a second class certificate, if, in their opinion, he has done sufficiently well to deserve it.

(10) The Secretary to the local examiners shall report, by registered post, the result of the examination, giving the number of marks obtained by each candidate in each subject, to

the President of the Board of Examiners within one month of the close of the examination.

(11) The questions which the local examiners intend to put in the examination papers

shall be submitted in draft to the Board of Examiners, for approval, at least six weeks before the date of the examination.

(12) At least one examination shall be held annually in the Bengal coalfields; and in other parts of India examinations will be held whenever, in the opinion of the Board of Examiners the number of candidates in a coal-mining centre justifies the holding of an examination.

Table No. 7.

List of holders of certificates as Managers of Coal Mines in British India.

(a) Certificates granted to holders of English certificates of competency.

FIRST CLASS.

				No. of Indian certificate.	Date of Indian certificate.	ļ	No. of English certificate.	Date of English certificate.
furdoch, Adam	•	•	 	63	21st January 1907	-	2792	12th June 1906.
Martin, William Marshall				64 .	27th March 1907		2237	16th June 1903.
Ward, Alex. Houstonne .	•			65	Ditto		258	11th July 1890.
Aurray, Thomas Chapman				66	Ditto		2793	12th June 1906.
Piggford, Thomas Charles			.]	67	Ditto		1425	25th July 1898.
Combey, William			- [68	25th April 1907 .		2564	22nd February 1905.
Heron, Robert	•			69	Ditto .		2884	31st December 1906.
Ward, Percie Overton		•		70	Ditto .		2033	26th May 1902.
Watson, Claude Leslie .	•	• .		71	6th May 1907 .	٠,	1666	23rd February 1900.
tewart, John H	÷			72	27th March 1907	• .	640	8th June 1893.
Wardlaw, John B				73	3rd July 1907 .		2537	29th December 1904.
Chapman, Joseph		•.		74	Ditto .		2518	Ditto.
omerville, Lawrence Reid				75	12th August 1907		2655	5th June 1905.
fackay, Angus		•		76	Ditto .		2641	Ditto.
Pitt, George Norman Ackroyd				77	Ditto .		1556	30th August 1899.
awrie, William	•			78	Ditto .		2887	31st December 1906.
Cirk, Stewart		•		79	Ditto .		2338	13th January 1904.
Chomas, Josiah	•			80	30th August 1907	$ \cdot $	2395	30th May 1904.
Davies, Richard Stanley .				81	Ditto .		2107	22nd September 1902.
Dates, Robert J. W.	•		•	82	Ditto .	•	134	28th March 1889.
Emmerson, George				83	Ditto .		2278	12th September 1903.
Cnox, John	•	•	\cdot	84	Ditto .		1871	19th June 1901.
Aarshall, John Joseph .		•		85	7th November 1907	•	2317	8th January 1904.
ardine, Walter				86 ·	Ditto .		2785	12th June 1906.
Darby, Alexander Whyte .				87	Ditto .	١	2986	14th June 1907.

Table No. 7-contd.

List of holders of certificates as Managers of Coal Mines in British India—contd.

(b) Certificates of service.

FIRST CLASS.

Nam	E.					No. of certificate.	Date of certificate.	Remares.
Panchan, Narayan				•	_	. 101	8th January 1907.	
Owane, Francis Cecil						102	Ditto.	
Marwari, Kam Chandra .	•		•			103	15th January 1907.	
Mukerji, Charu Chandra .						104	Ditto.	
Biswas, Purna Chandra .		٠.				105	Ditto.	
Dutt, Sourindra Nath .						106	Ditto.	
Walji, Lira						107	Ditto.	
Nathu, Sheth Haridas .						108	Ditto.	
Chandra, Ram Ram .	•	:				109	Ditto.	
Bunarjee, Jogo Bundhoo						110	22nd January 1907.	
Mukerjee, Bunwari Lal .						111	Ditto.	
Chuckerbutty, Rajoni Prokas	h .					112	Ditto.	
Chowdhuri, Neelmoni .						113	Ditto.	
Banerjee, Harihor						114	Ditto.	
Ghosh, Ananta Lall						115	Ditto.	
Maltby, Francis Blough .						116	30th January 1907.	· 1
Wood, Arthur Whiffen .		٠.				117	Ditto.	
Lane, Arthur						118	27th March 1907.	
Akhai, Mulji						119	25th April 1907.	
Mukerji, Harish Chandra						120	6th May 1907.	
Kead, Harry Crible .						321	Ditto.	
Martin, Henry Aloysius						122	12th August 1907.	
Mukherjee, Lal Chand .						123	Ditto.	•
Oswald, Thomas Clark .						124	26th November 1907.	
						~ ~		' .
Relia, Meghji Bhimji .						SECOND C	Ass.	
Pal, Basanta Kumar						86	8th January 1907.	
Biddle, Charles John .						87	Ditto.	
Dutt, Sarat Chander .						88	Ditto.	
Ambler, Taaffe Charles .						89	Ditto.	
Lardner, Frederick Charles						90	Ditto.	
Lardner, John Albert .	•					91	Ditto.	
Lardner, James Adolphus (J	unior) .				92	Ditto.	
Stacey, George						93	Ditto.	

Table No. 7-contd.

List of holders of certificates as Managers of Coal Mines in British India—contd.

(b) Certificates of service-contd.

SECOND CLASS.

Name.	,	•	No. of certificate.	Date of certificate.	REMARKS.
Dash, Botto Kristo		•	. 4	15th January 1907.	
Mitchel-Jones, Arthur Hood .			. 95	Ditto.	
Dass, Natabar		•	. 96	Ditto.	
Howji, Doolabhji			. 97	Ditto.	
Banerjee, Tripura Charan .			. 98	Ditto.	
Mawjee, Bira		٠.	. 99	Ditto.	
Bosu, Sachindra Nath			. 100	Ditto.	
Chakravatty, Indra Narayan .			. 101	Ditto.	
Panja, Kali Prasanna			. 102	22nd January 1907.	·
Mukerjee, Beni Madhub			. 103	Ditto.	
Chuckerbutty, Nil Madhub .			. 104	Ditto.	
Topadar, Pratap Chander			. 105	Ditto.	
Roy, Durga Dass			. 106	Ditto.	
Bose, Annada Prashad			. 107	Ditto.	
Bhose, Jasada Dulal			. 108	Ditto.	
Chatterjee, Rishi Kesh			109	Ditto.	
Hazra, Pramatha Nath			. 110	Ditto.	•
Bhattacharjee, Kanti Chandra .			. 111	Ditto.	
Chatterjee, Kedar Nath		•	. 112	Ditto.	
Chatterjee, Radhakrishna .			113	30th January 1907.	
Whiffen, Walter Osborne .		. •	. 114	Ditto.	
Bhosal, Saroda Prosad			. 115	Ditto.	
Mukerjee, Girindra Narayan .			116	Ditto.	
Roy, Sambhu Nath			. 117	Ditto.	
Ben, Preo Nath			. 118	Ditto.	•
Shosh, Preo Nath			. 119	Ditto.	
Sarkar, Surendra Nath			. 120	31st January 1907.	
Jokal, Mawji			. 121	Ditto.	
Mukherjee, Rajoni Kanto		•	. 122	30th January 1907.	
Mukherjee, Promotho Nath .			. 123	Ditto.	
Roy, Gosto Behary			. 124	27th March 1907.	
Roy, Prasanna Kumar			. 125	Ditto.	•
Rai, Sasi Bhushan			. 126	25th April 1907.	
Dossa, Gangji			127	Ditto.	•

Table No. 7-contd.

List of holders of certificates as Managers of Coal Mines in British India—contd.

(b) Certificates of service—concld.

SECOND CLASS.

Name.		No. of certificate.	Date of certificate.	REMARKS.
Tah, Sarat Chandra		128	25th April 1907.	
Ghosal, Hari Prasanna		129	6th May 1907.	
Williams, James Emmanuel		130	Ditto.	
Din, Ahmed		131	Ditto.	
Biddle, Leonard Alexander		132	Ditto.	
Cooper, Albert James		183	Ditto.	
Hancox, Samuel		134	Ditto.	
Wright, George		135	Ditto.	
Robertson, Ivanhoe George Charaley		136	Ditto.	
Amir Ali		137	Ditto.	
Singh, Karam		138	Ditto.	
Barnes, William		139	Ditto.	
Jerome, William Augustus		140	Ditto.	
Rai, Hokoomat		141	Ditto.	•
Woodall, Samuel		142	Ditto.	
Hughes, William		143	Ditto.	
▲llah Ditta		144	Ditto.	
Loving, Osmond Davis		145	Ditto.	
Smith, Duncan Walter Charles		146	Ditto.	
Plant, Joseph		147	Ditto.	
Simpson, Stanley Nevil		148	Ditto.	
Das, Lakhmi		149	Ditto.	
Mohamed Hassan		150 ′	Ditto.	
Mittra, Annoda Prosad		151	3rd July 1907.	
Bose, Kumude Nath		152	12th August 1907.	
Ghose, Fanindra Nath		153	Ditto.	
Mukerjee, Harish Chandra		154	Ditto.	
Mukerjee, Poorendra Nath		155	Ditto.	
Chand, Malik Mehar		156	Ditto.	
Roy, Rohini Kumar		157	Ditto.	
Griffiths, James	•	158	30th August 1907.	,
Roya, Mohendra Narayan		159	Ditto.	
Haloo, Ramji		160	7th November 1907.	

Table No. 7-concld.

List of holders of certificates as Managers of Coal Mines in British India—concld.

(c) Certificates of competency.

FIRST CLASS.

Nамя.					No. of certificate.	Date of certificate.	Ebnabns.	
Pennefather, Alfred Fredrick .						1	27th March 1907.	
Scott, George Duncan						2	Ditto.	
Bapty, George Frederic William						3	Ditto.	·
Warde, Ivan Alexis Townsend						4	Ditto.	
Calland, Richard						5	Ditto.	
Wilkinson, John Bertram .						6	Ditto.	
Murphy, John W						7	Ditto.	
Cooper, Albert James						8	Ditto.	
Loughran, Herbert W						9	Ditto.	ļ
Hodgkinson, Thomas Gerald .					•	10	Ditto.	
Topham, William Henry .						11	Ditto.	
Bennertz, Theodore Hubert .						12	Ditto	
Roberts, Frank Anthony .						13	Ditto.	
Bull, Alfred Collins						14	Ditto.	,
Sam, Eleazer Gregory Seth .			• .		•	15	Ditto.	
Thornton, John William .						16	Ditto.	
Pal, Basanto Kumar .						17	Ditto.	
Blair, David						18	Ditto.	

SECOND CLASS.

						· · · · · ·
Adamson, Harry					1	27th March 1907.
D'Souza, Joseph Donald .					2	Ditto.
Oliver, James Arthur .				-	3	Ditto.
Frizoni, Raphael Luke					4	Ditto.
Cooper, Frank				.	5	Ditto.
Rooke, Reginald George .		,		.	6	Ditto.
Myers, Harold Ernest .				٠,	7	Ditto.
Forbes, Charles Alexander			•		8	Ditto.
Bennett, William Henry					9	Ditto.
Spencer, Alfred James .					10	Ditto.
	1					
·			 			

Table No. 8,

List of Universities and Colleges in England and India approved by the Governor-General in Council for the purposes of Rules 32 and 33 of the Indian Mines Act, 1901.

Name of Institution and Degree or Diploma.	Date.
University of Birmingham in respect of its Degree of B.Sc. in Mining and Diploma in Mining.	11th June 1904.
University College of Bristol in respect of its Senior Diploma in Mining.	16th September 1904.
University of Cambridge in respect of its Diploma in Mining Engineering.	6th June 1905.
University of Durham in respect of its Degree of B.Sc. in Mining	21st December 1903.
Durham College of Science in respect of its Diploma in Mining	29th June 1904.
University of Glasgow in respect of its Degree and Diploma in Mining.	28th September 1904.
Glasgow and West of Scotland Technical College in respect of its Diploma in Mining.	28th June 1904.
University of Leeds in respect of its Degree of B.Sc. in Mining and Diploma in Mining.	21st November 1904.
University of London in respect of its B.Sc. Degree in Mining for Internal Students, subject to the Degree being endorsed by the University with a certificate of four months' practical experience in a mine.	9th June 1905.
Royal School of Mines in respect of its Associateship in Mining	24th March 1904.
University of Oxford in respect of its Diploma B. (for Colliery Engineers) in Scientific Engineering and Mining Subjects.	11th February 1905.
University College of Sheffield in respect of its Diploma in Mining.	15th July 1904.
University College of South Wales and Monmouthshire in respect of its Diploma in Mining.	19th April 1904.
Wigan Mining and Technical College in respect of its Diploma in Mining.	26th August 1904.
Civil Engineering College, Sibpur, in respect of its Diploma in Mining.	22nd February 1907.

Table No. 9. List of Inspection Circles.

	No. 1 Circle.	No. 2 Circle.	• No. 3 Circle.
(a)	All mines in the districts of Palamau, Gaya, Monghyr, Singhbhum, Darjeeling, Ranchi and Sambalpur, and all mines other than coal mines in the district of Hazaribagh, and all mines in the district of Manbhum, which are situated west of a line drawn from Adra Junction at mile 175 of the Bengal-Nagpur Railway to Gobindpur at mile 169 on the Grand Trunk Road and continued across the district in each direction.	(a) All mines in the districts of Burdwan and Bankura to the west of a line drawn from mile 131 on the East Indian Railway main line near Asansol to mile 141 on the Ondal loop near Gaurangdi, and continued across the districts in each direction; and all mines in the district of Manbhum east of a line drawn from Adra Junction at mile 175 on the Bengal-Nagpur Railway to Gobindpur at mile 169 on the Grand Trunk Road, and continued in each direction across the district, and all coal mines in the district of Hazaribagh.	(a) All mines in the districts of Burdwan and Bankura to the east of a line drawn from mile 131 on the East Indian Railway main line near Asansol to mile 141 on the Ondal loop near Gaurangdi, and continued across the districts in each direction, and all mines in the districts of the Sonthal Parganas and Birbhum.
·(b)	All mines in Assam.	(b) All mines in Baluchistan.	(b) All mines in the Presidency of Bombay.
:(c)	All mines in Burma.	(c) All mines in the United Provinces.	(c) All mines in the Central Provinces.
		(d) All mines in the Panjab.	(e) All mines in the Presidency of Madras.
		(e) All mines in Ajmer- Merwara	
			•

Table No. 10.

No. 10724-10740-246.

GOVERNMENT OF INDIA.

DEPARTMENT OF COMMERCE AND INDUSTRY.

GEOLOGY AND MINERALS.

RESOLUTION.

Dated Calcutta, the 18th December 1907.

THE following Royal Warrant is published for general information :-

WHITEHALL, October 17, 1907. .

The King has been pleased to issue a Warrant under His Majesty's Royal Sign Manual to the following effect:—

Edward, R. & I.

Edward the Seventh, by the Grace of God, of the United Kingdom of Great Britain and Ireland and of the British Dominions beyond the Seas, King, Defender of the Faith, Emperor of India, to all to whom these Presents shall come, Greeting!

Whereas We are desirous of distinguishing by some mark of Our Royal Favour the many heroic acts performed by Miners and Quarrymen and others who endanger their own lives in saving or endeavouring to save the lives of others from perils in Mines or Quarries within Our Dominions and in territories under Our Protection or Jurisdiction, We do by these presents for Us, Our Heirs, and Successors institute and create a new Medal to be awarded for such acts of gallantry.

Firstly.—It is ordained that the Medal shall be of two classes which shall be designated and styled "The Edward Medal of the First Class" and "The Edward Medal of the Second Class."

Secondly.—It is ordained that the Edward Medal of the First Class shall consist of a circular Medal of Silver with Our Effigy on the obverse, and on the reverse a design representing the rescue of a miner with the inscription "for courage."

Thirdly.—It is ordained that the Edward Medal of the Second Class shall consist of a Circular Medal of Bronze of a similar design.

Fourthly.—It is ordained that the Medals shall only be awarded to those of Our Faithful Subjects and others who, in saving or endeavouring to save the lives of others from perils in Mines and Quarries within Our Dominions and in territories under Our Protection or Jurisdiction, have endangered their own lives, and that such award shall be made only on a recommendation to Us by Our Principal Secretary of State for the Home Department.

Fifthly.—It is ordained that the names of those upon whom We may be pleased to confer either of these Decorations shall be published in the London Gazette, and that a Register thereof shall be kept in the Office of Our Principal Secretary of State for the Home Department.

Sixthly.—It is ordained that each Medal shall be suspended from the left breast and the riband, of an inch and three-eighths in width, shall be dark blue with a narrow yellow stripe on either side: Provided that when the Medal is awarded to a woman it shall be worn on the left shoulder, suspended from a riband of the same width and colour, fashioned into a bow.

Table No. 10-concld.

Seventhly.—It is ordained that any act of gallantry which is worthy of recognition by the award of the Edward Medal, but is performed by one upon whom the Decoration has already been conferred may, on a recommendation to Us by Our Principal Secretary of State for the Home Department, be recorded by a Bar attached to the riband by which the Medal is suspended; and for every such additional act an additional Bar may be added.

Eighthly.—In order to make such provision as shall effectually preserve pure these most honourable Decorations it is ordained that if any person, on whom either of such Decorations is conferred be guilty of any crime or disgraceful conduct which, in Our judgment disqualifies him for the same, his name shall, by an especial Warrant under Our Royal Sign Manual, be forthwith erased from the Register of those upon whom the said Decoration shall have been conferred and his Medal shall be forfeited. And every person to whom the said medal is given shall before receiving the same, enter into an agreement to return the same, if his name shall be so erased as aforesaid under this regulation. It is hereby further declared that 'We, Our Heirs and Successors, shall be the sole judges of the circumstances demanding such forfeiture, Moreover, We shall at all times have power to regrant a Medal to any person whose Medal may at any time have been forfeited.

Given at Our Court at Saint James's, the thirteenth day of July, one thousand nine hundred and seven, in the seventh year of Our Reign.

By His Majesty's Command,

H. J. GLADSTONE.

ORDERED that the paper be published in the Supplement to The Secretary to the Government of Madras, Revenue Department. """ "Bombay" "" "Chief Secretary to the Government of Bengal. """ "the Panjab. """ "Burma. Chief Secretary "" Burma. Chief Secretary "" Burma. Chief Secretary "" Burma. Chief Secretary "" Burma. Chief Commissioner, Central Provinces. Honourable the Chief Commissioner, Central Provinces. Honourable the Resident at Mysore and Chief Commissioner of Coorg. Chief Commissioner of Ajmer-Merwara. Honourable the Agent to the Governor-General and Chief Commissioner, No West Frontier Province. Agent to the Governor-General in Baluchistan.	that copies be forwarded to the Local Governments and Administrations noted in the margin, to the Finance and Foreign Departments, the Railway Board, the Chief Inspector of Mines in
---	---

W. L. HARVEY,

Secretary to the Government of India.

APPENDIX IV.

ADDITIONS TO THE ACT.

No. 3952-36.

GOVERNMENT OF INDIA.

DEPARTMENT OF COMMERCE AND INDUSTRY.

GEOLOGY AND MINERALS.

NOTIFICATION.

Simla, the 10th May 1907.

In exercise of the power conferred by section 20 of the Indian Mines Act, 1901 (VIII of 1901), the Governor General in Council is pleased to make the following rule for application to all mines in British India in supersession of the Rule published with the Notification of the Government of India in the Department of Revenue and Agriculture, No. 3842—86-15, dated the 8th December 1904.

RULE.

Form of Annual Return.

The following form shall be correctly filled up in duplicate by the managing agent, or if there is no managing agent, by the owner, agent or manager of a Mine, and one copy forwarded to the Chief Inspector of Mines and the other to the District Magistrate not later than the 1st February in each year.

I.

Year ending on the 31st December 190 .

1. Name of Mine.		Owner.
2. Date of opening.		Managing Agent.
3. Date of closing.	6. Name and postal address of	Agent.
4. Nature of moving power.		
5. Situation District.		Manager.
of Mine. Province.		Assistant or Under Manager.

II.

Average number of persons employed daily during the year ending on the 31st December 190 .

-		BELOW	GROUND.			Аво₹в	GROUND.		
Name or No, of pit or sreavation.	Mals adults.	Female adulta.	Children under 12,	Total,	Male adults.	Female adults.	Children under 12,	Total.	Gross total below and above ground.
1	2	8	4	5	6	7	8	9	10
								•	
		·							
Total .									

III.

Output of Mineral during the year ending on the 31st Necember 190 .

	Depth from the		I			IN CAR	S OF GOAL	CINES.
Name or No. of pit or excavation.	Depth from the surface of the lowest point of the seam or vein worked, in feet.	Name of mineral worked.	Total amount of mineral raised.	Total value of mineral at the mine.	Number of days worked.	No. of coke ovens.	System of coking adopted, vis., bee-hive, Simon- Carves, etc.	Tons of soke pro- duced.
1	3	*	, 4	5	8	7	8	9
		: "						
							}	
							1	
		·						
								· ·
TOTAL .								

IV.

Accidents and inspections.

No. of a	BBPABATE A	COIDENTS	No. or	_	oracino ana viope		No.	F INSPECT	ONE.
Patal.	Serious.	Total.	Кіпед.	Seriously injured.	No. of prosecutions under the Act, with the section under which the prosecu- tion was insti- tuted.	No. of persons convicted under the Ack, with the sections under which the convic- tions were obtained.	By District Officers.	By Mines Inspector.	Total.
1	3	. 3	4	5	6	7	*8	•9	•10
		•							
		-							
					,		:		

It is optional to supply the information required by columns 8, 9 and 10. They will be filled in by the Mines Department when deft blank by Mine Agents or Owners.

Agent, Owner, Agent, or Manager.	·		
			190
		•	

NOTES AND INSTRUCTIONS.

(1) Failure to forward a correct return to the Chief Inspector of Mines not later than the 1st Vebruary in each year, will render the managing agent, owner, agent, or manager liable on conviction to a penalty which may extend to Rs. 500.
 (2) It will greatly facilitate the preparation of the statistics if the return is despatched as soon as possible at the close of the year.
 (i) The output should be given—

 (a) in troy ounces in the case of gold;
 (b) in carats in the case of gem-stones;

(c) in cwts., -- or in cwts. and lbs. where the circumstances require greater particularisation in order to give an accurate estimate of small outputs,—in the case of alum, amber, asbestos, chromite, corundum (not being gem corundum), graphite, jadestone, mica, steatite and tin ore; and

(d) in tons, in the case of clays, coal, coke, iron-ore, limestone, magnesite, manganese-ore,

other unspecified metalliferous ores, salt and slate.

(4) The total amount of mineral raised during the year must be given including, in the case of coal mines, the colliery consumption and the coal made into coke.

(5) The value of the mineral given should be based on the actual or estimated wholesale price of the mineral at the pit's mouth. In the case of coal sold into wagons at the colliery the cost of loading should be deducted from the selling price.

(6) In the case of mica mines a "plot" is to be regarded as a "pit" for the purposes of statements Nos. II and III and the figures to be entered in columns 4 and 5 of statement

No. III relate to the quantity and value of marketable mica consigned.

(7) The average number of persons employed daily should be obtained by dividing the aggregate number of daily attendances (permanent and temporary) by the number of working days.

(8) Every person of or above the age of twelve years should be entered as an adult.

B. ROBERTSON.

Offg. Secretary to the Government of India.

No. 3953-3966-36

Copy forwarded in continuation of letter No. 8497-8507-92-Geology and Minerals. dated 26th October 1906, to-

The Secretary to the Government of Madras, Revenue Department,

The Secretary to the Government of Bombay, Revenue Department,

The Chief Secretary to the Government of Bengal,
The Chief Secretary to the Government of the United Provinces.
The Chief Secretary to the Government of the Panjab,

The Revenue Secretary to the Government of Burma,

The Chief Secretary to the Government of Eastern Bengal and Assam,

The Hon'ble the Chief Commissioner of the Central Provinces,

The Hon'ble the Resident in Mysore and the Chief Commissioner of Coorg,

The Chief Commissioner of Ajmer-Merwara,
The Hon'ble the Agent to the Governor General and Chief Commissioner, North-West Frontier Province.

A copy is forwarded to the Foreign Department, for information and communication to the Agent to the Governor General in Baluchistan in continuation of the endorsement from this. Department, No. 8508-92, dated the 26th October 1906.

A copy is also forwarded to the Chief Inspector of Mines in India
Director General of Commercial Intelligence for information.

By order,

M. M. S. GUBBAY,

Offg. Under Secretary to the Government of India,

No. 7861-36.

GOVERNMENT OF INDIA.

DEPARTMENT OF COMMERCE AND INDUSTRY.

GEOLOGY AND MINERALS.

NOTIFICATION.

Simla, the 19th September 1907.

In exercise of the power conferred by section 20 of the Indian Mines Act, 1901 (VIII of 1901), the Governor General in Council is pleased to make, in supersession of the rules published with Notifications Nos. 3352-45-32, and 3938-35, dated the 27th December 1901, and 23rd May 1905, respectively, the following rules for application to all mines in British India:—

1.—When an accident occurs in or about a mine causing loss of life or serious* bodily injury, or when an accidental explosion occurs in a mine, the owner, agent or manager of the mine shall give notice of the accident to the Chief Inspector of Mines by despatching to the Magistrate of the district or to the Sub-divisional Magistrate, for transmission to the Chief Inspector of Mines, a notice in the form set forth below, within 24 hours of the occurrence of such accident:

No.

NOTICE OF ACCIDENT.

Indian Mines Act, 1901.

From-

To-The Chief Inspector of Mines, through the District Magistrate of

Dated

190

Sir,

I have the honour to furni which has occurred at the	sh the following particulars Mine:—	of	Re	atal rious accident n accidental explosion
Situation of the Mine. 1. (Village, Station, District, Province) .				
2. Mineral worked				
3. Name and postal address of owner .		r		

^{*} Note. — An injury is said to be serious which involves or will in all probability involve the loss of, or permanent injury to any limb, or to the sight or hearing, or fracture of any limb, or enforced absence from work for 20 days, or which is declared by any medical officer to be serious (Circular No. 42-70-6, dated 4th September 1902, of the Government of India in the Department of Revenue and Agriculture.)

ons.		0
Injured.	Age,	Occupation,
		•
<u> </u>		
		Injured.

I have the honour to be, SIR,

Your most obedient servant,

Owner,

Agent,

Manager.

2. For the purposes of entry No. 8 in the form of notice prescribed by rule 1, one or other of the following terms shall be used, namely:—

- (1) Explosions of fire-damp; (2) falls of roof; (3) falls of side; (4) in shafts (overwinding); (5) in shafts (ropes and chains breaking); (6) in shafts (whilst ascending or descending by machinery); (7) in shafts (falling into the shaft from the surface); (8) in shafts (falling from part of the way down); (9) in shafts (things falling from the surface); (10) in shafts (things falling from part of the way down); (11) in shafts (miscellaneous); (12) suffocation by gases; (13) by explosives; (14) irruptions of water or falling into water; (15) haulage; (16) by underground machinery; (17) sundries underground; (18) by surface machinery; (19) surface boilers or pipes bursting; (20) on surface railways or tramways belonging to the mine; (21) miscellaneous on surface.
- 3. When any person dies from the result of an injury already reported as serious under rule 1, the owner, agent or manager of the mine shall send notice, within 24 hours of his being informed of the death, to the Chief Inspector of Mines, through the Magistrate of the district or the Sub-divisional Magistrate.
- 4. When a mine, seam or vein has been abandoned for more than one month, or the working thereof discontinued for more than two months, the owner of the mine, seam or vein shall, within seven days after the expiry of such period, send notice to the Chief Inspector of Mines specifying the name and situation of the mine, the name of the owner and the date and cause of abandonment or discontinuance.
- 5. When a mine, seam or vein is re-opened after abandonment or discontinuance, the owner shall send notice to the Chief Inspector of Mines within one month after the date of re-opening.
- 6. When a change occurs in the name of a mine, or of an owner or agent of a mine notice of the change shall be sent by the owner, agent or manager, to the Chief Inspector of Mines within one month after such change.

B. ROBERTSON,

Nos. 7862-7877-36.

Copy forwarded to-

The Secretary to the Government of Madras, Revenue Department.

The Secretary to the Government of Madras, Revenue Department.
The Secretary to the Government of Bombay, Revenue Department.
The Chief Secretary to the Government of Bengal.
The Chief Secretary to the Government of the Panjab.
The Revenue Secretary to the Government of Burma.
The Chief Secretary to the Government of Eastern Bengal and Assam.
The Honourable the Chief Commissioner, Central Provinces.
The Honourable the Resident and Chief Commissioner of Coorg.
The Chief Commissioner of Aimer-Merwara.

The Chief Commissioner of Ajmer-Merwara.

The Honourable the Agent to the Governor-General and Chief Commissioner, North-

West Frontier Province.

The Honourable the Agent to the Governor-General in Baluchistan.

A copy is forwarded to the Foreign Department, for information.

Finance Department,
Chief Inspector of Mines,
Railway Board,
Secretary, Indian Mining Association. A copy is also forwarded to the

> By order, etc., M. M. S. GUBBAY,

Offg. Under Secretary to the Government of India ...

No. 10014-100,

GOVERNMENT OF INDIA.

DEPARTMENT OF COMMERCE AND INDUSTRY.

GEOLOGY AND MINERALS.

NOTIFICATION.

Calcutta, the 4th December 1907.

In exercise of the power conferred by section 20 (2) (v) of the Indian Mines Act, 1901 '(VIII of 1901), the Governor General in Council is pleased to make the following rules for application to all mines in British India:—

Rules.

(I) If the owner, agent or manager of any mine intends to extend any mining operation under his control at or to any point within fifty yards of any railway subject to the provisions of the Indian Railways Act, 1890, he shall give the Chief Inspector of Mines and the Railway Administration concerned notice in writing of his intention so to do 60 days before the commencement of such extension.

(II) If the operations in respect of which notice is given under rule I are not commenced within twelve months from the expiry of the period of 60 days therein referred to, the notice shall be held to have expired and a fresh notice shall be given by the owner, agent or manager

shall be held to have expired and a fresh notice shall be given by the owner, agent or manager of the mine under rule I.

(1II) The notice to be given under rule I shall specify the position of the working of the mine in relation to the railway in question, the manner in which it is proposed to carry out the intended new operations, the limits to which it is proposed to carry the said operations, and whether the operations are actually in progress,—and shall include a plan showing the existing and the intended mining operations in so far as they affect the railway in question.

W. L. HARVEY,

Secretary to the Government of India.

Nos. 10015-10031-100.

The Governments of Madras, Bombay and Burms, Revenue l'epartment.
The Governments of Bengal, the United Provinces, the Panjab and Eastern
Bengal and Assam.
The Horrible the Chief Commissioner, Central Provinces.
Ajmer-Merwars.

"the Resident in Mysore and Chief Commissioner, Coorg.
the Agent to the Governor-General and Chief Commissioner, NorthWest Frontier Province.
The Hon'ble the Agent to the Governor-General in Baluchistan.

A copy is also forwarded to the Finance Department,

Chlef Inspector of Mines in India.
Ratinary Board.
Secretary, Indian Mining Association.

A copy is forwarded to the Local Governments and Administrations, noted in the margin,* and to the Foreign Department for informa-

By order, etc.,

M. M. S. GUBBAY,

Under-Secretary to the Government of India.

APPENDIX V.

List of Coal Mines worked under the Indian Mines Act, 1901, in British India.

Name of Gwner or Company arranged in alphabetical order, and postal address.	and number of separate Mines as defined by Rule 27.	Situation of Mine.		Assistant	Name and address	D-44			1
			Name of Manager, and No. and Class of his Certificate, Authorization or Permit.	Manager and No. and Class of his Certificate,	Managing Agent.	Date of establishment of Special Rules.	Below ground.	Above ground.	Remarks.
		Bengal-Jh	aria Coalfield (No. 1	Inspection C	Circle).			<u> </u>	
Agabeg Bios	Jogta (4 mines).	Jogta, Sijua, E. I. R.	Wilfred Hullock, 1st class service No. 49. Authorization, No. 189, to act as manager of more than one mine	•••			534	195	
Agnrwala, Jaganuath Ramjus Jharia P. O.	Khas Jharia .	k has Jharia, Jharia, E. I. R.	O. S. Lethorn, 2nd class service, No. 47.				38	33	
	Godhur	Godhur, Kusunda, E. I. R.	***						
	Chandrabad (2 mines).	Chaudrabad, Jharia, E. I. R.	Rup Lal Agarwala, Permit No. 119. Au- thorization, No. 182, to act as manager of more than one mine.			•••	. 	. 25	
	Futtebpur	Futtehpur, Jharia, E. I. R.	O. S. Lethorn, 2nd class service, No. 47.			***	44	22	
A.dih Coal Co., Ld. (See column No. 7).	Bhutgoria	Bhutgoria, Jharia, E. I. R.	D. Bone, 1st class service, No. 9. Authorization, No. 127, to act as manager of	***	MacNeill & Co. 2, Clive Ghat Street, Calcutta, or Post Box No. 15.		420	185	
Angarpatra Colliery Co. (Virgi	Angarpatra	Angarpatra, Katrasgarb, E.I.R.	more than one mine.			***	159	17	
Akhai & others). Katrasgarh P. O.	Kantaphāri .	Kantapahari, Katrasgarh, E.I.R	Purshetam Bhimji, 1st class service, No. 65.			• •••	ا		
Angarpatra (South) Coal Co. (Bejoy Krishna Banerji & Son) 22, Nayanchand Dutt Street, Calcutta.	Kantapahari	Kantapahari, Katrasgarb, E.I.R.	J. K. Chowdhuri				81	17	
(See column No. 7).	Nudkhurki (East) .	Nudkhurki	•••	.	Lyall, Marshall & Co., 25, Mangoe Lane, Calcutta, or Post Box No. 6.	•			W V. Hannaford, Agent
Bagchi, R. N. Jharia P. O.	Dobari (5 mines).	Dobari, Jharis, E. I. B.	2nd class service, No. 36. Authorization, No. 186, to act as		<i></i>		60	68	
	Agarwala, Lachmi Narayan Jharia P. O. Agarwala, Ramjus Jharia P. O. Adih Coal Co., Ld. (See column No. 7). Angarpatra Colliery Co. (Virgi Akbai & others). Katragarh P. O. Angarpatra (South) Coal Co. (Bejoy Krishna Banerji & Son) 22, Nayanchand Dutt Street, Calentta.	Agarwala, Lachmi Narayan Jharia P. O. Agarwala, Lachmi Narayan Jharia P. O. Adih Coal Co., Ld. (See column No. 7). Angarpatra Colliery Co. (Virgi Akhai & others). Katrasgarh P. O. Angarpatra (South) Coal Co. (Bejoy Krishna Banerji & Son) 22, Nayanchand Dutt Street, Calcutts Calcutts Calcutts Auckland Coal Co., Ld. (See column No. 7). Bagchi, R. N. Godhur Chandrabad (2 mines). Ghurden Chandrabad (2 mines). Kantaphari Kantaphari Kantaphari Kantaphari Nudkhurki (East) .	Agarwale, Lachmi Narayan Jharia P. O. Adarahada . (2 mines). Futtehpur . Futtehpur, Jharia, E. I. R. Bhutgoria . Bhutgoria, Jharia, E. I. R. Angarpatra Colliery Co. (Virgi Akhai & others). Katrasgarh P. O. Angarpatra (South) Coal Co. (Bejoy Krishna Banerji & Son) 22, Nayanchand Dutt Street, Calcutta. Auckland Coal Co., Ld. (See column No. 7). Angarpatra . Kantapahari . Kantapahari . Kantapahari, Katrasgarh, E.I.R. Mudkhurki (East) . Nudkhurki . Dobari . Chandrabad .	Agarwala, Jaganuath Ramjus Jharia P. O. Agarwala, Lachmi Narayan Jhavia P. O. Godhur Godhur Godhur, Kusunda, E. I. R. Chandrabad Godhur, Maria	Agarwala, Jaganuath Ramjus Jharia P. O. Jharia P. O. Godhur Godhu	Agnrwala, Jagannath Ramjus Jharia P. O. Godhur Godhur Godhur, Kusunda, E. I. R. Chandrabad, Jharia, E. I. R. Chandrabad, Jh	Agravala, Jaganuath Ramjus Jharia P. O. Godhur . Godhur . Godhur Kusunda, E. I. R. Chandrabad . (2 mines). Chandrabad . (3 mines). Chandrabad . (3 mines). Chandrabad . (3 mines). Chandrabad . (4 mines). Chandrabad . (5 mines). Chandrabad . (6 mines). Chandrabad . (8 mines). Chandrabad . (9 mines). Chandrabad . (1 mines). Chandrabad . (2 mines). Chandrabad . (2 mines). Chandrabad . (3 mines). Chandrabad . (4 mines). Chandrabad . (5 mines). Chandrabad . (6 mines). Chandrabad . (8 mines). Chandrabad . (9 mines). Chandrabad . (9 mines). Chandrabad . Chandrabad . (9 mines). Chandrabad . Chandrabad . (9 mines). Chandrabad . Cha	Agarwala, Jagannath Rawjus Jharia P. O. Agarwala, Lachmi Narayan Jharia P. O. Godhur	Agarwala, Lachmi Narayan Jharia P. O. Ghandrabad, Jharia, J. L. R. Jharia P. O. Ghandrabad, Jharia, E. I. R. Jharia P. O. Magarpatra Colliery Co. (Virgi Akhioria, Jharia, E. I. R. Angarpatra Colliery Co. (Virgi Katrasgarh, E. I. R. Angarpatra (South) Coal Co. (Bejoy Krishna Banerij & Son) Za. Nayandhand Dutt Street, Calcutta. Machalad Coal Co., Ld. (See column No. 7). Magarpatra South Coal Co. (Bejoy Krishna Banerij & Son) Za. Nayandhand Dutt Street, Calcutta. Machalad Coal Co., Ld. (See column No. 7). Magarpatra P. O. Mandrabadi P. O. M

12		Bagdiggi .	Bagdiggi, Jharia, E. I. R.	Keshab Chandra Sarkar, 2nd class service, No. 25.]		• •••		*****	
13	Bagdiggi-Kujama Collieries, Ld. (See column No. 7)	Kujama)	Jnanendra Nath Mukher- ji, 1st class service,	}	M. L. Laik and Banerji, 7. Swallow Lane, Cacutta.				
14	} ` ` {	Kujama (South) .	Kujama, Jharia, E. I. R.	No. 91. Surendra Nath Bose	· }		•••	62	38	
15	Banerji & Co., Harish Chandra Katrasgarh P. O.	Chandore	Chandere, Sijua, E. I. R.	Krishna Chandra Ghosal, Permit, No. 94.		***	. •••	26	6	
16	Banerji, Bepin Behari	Kesalpur (New) .	Kesalpur, Katrasgarh, E. l. R.	Rajendra Nath Biswas, Permit, No. 128.			***	40	23	And the state of the state of
17	Banerji's Coal Concern, J. L. (See column No. 7).	Surataur (New) .	Jbaria Khas, Jharia, E. I. R	Girendra Narayan Mu- kherji, 2nd class ser- vice, No. 116.	141	M. L. Laik and Banerji, 7, Swallow Lane, Calcutta.		92	21	•
.18	Bansdeopur Coal Co (P. H. Creet). Kusunda P. O.	Bansdeopur	Bansdeopur, Kusunda, E. I. R.	G. H. Creet, 1st class service, No. 43.	•••	•••	***	207	240	
19	Bansjora Coal Co. (See column No. 7)	Bansjora (5 mines).	Banejora, Sijua, E. I. R.	G. F. W. Bapty, 1st class competency, No. 3. Authorization,	***	McLeod & Co., 31, Dal- housie Square, South,	***	132	114	
		. was	Amagina and a second	No. 3. Authorization, No. 163, to act as manager of more than one mine.		Calcutta, or Post Box No. 78.				,
20	Barakar Coal Co., Ld. (See column No. 7).	Loyabad (10 mines).	Loyabad, Kusunda, E. I. R.	B. S. Bennertz, 1st class service, No. 21. Autho- rization, No. 39, to act as manager of more than one mine.	· ···	Bird & Co., 101-1, Clive Street, Calcutta, or Post Box No., 46,		820	640	
21	Barakar (North) Coal Co	Lodna	Lodna, Jharia, E. I. R	Joy Krishna Mitter, 1st class service, No. 40.	•••			410	161	•
22	Barari (East) Coal Co. (Tricumji Jiban Dass). 25, Pollock Street, Cal	Jinagora	Jinagora, Jharia, E. I. R.	Govardhan Dass Manishanker, 1st class service, No. 76. Autho-	•••			145	16	
23	cutta.	Parbad	Parbad, Jharia, E. I. R.	risation, No. 45, to act as manager of more than one mine.			. ***	24	6	
24	Barwabera Coal Co., (Khiti Bhusan Mukherji) Jharia P. O.	Barwabera (New) .	Barwabera	Ram Hari Chatterji	eredereda et Gorina		···		•••	
25	1	Banstakola (3 mines).	Banstako'a, Jharia, E. I. R.	Josiah Thomas, 1st class competency, No. 80, in lieu of English certificate. Authori-		Balmer, Lawrie & Co., 103, Clive Street, Cal- cutta, or Post Box No. 4.		204	106	
				zation, No. 120, to act as manager of more than one mine.						

APPENDIX V—contd.

List of Coal Mines worked under the Indian Mines Act, 1901, in British India—contd.

am by	Name of Owner or Company arranged in alphabetical order, and	Name of Mine and number		Name of Manager, and No.	Name of Assistant	Name and address	Date of	PRESQUE 1	MATORED	
Serial numbe	in airbabetical order, and postal address.	and number of separate Mines as defined by Bule 27.	Situation of Mine.	Certificate, Authorization or Permit.	Manager and No. and Class of his Certificate.	of Managing Agent,	establishment of Special Bules.	Below ground.	Above ground.	Remarks.
			Bengal—Jharia	Coalfield (No. 1 Ins	spection Circ	le)—cont d.				
2;	Bengal Bhatdih Coal Co., Ld . (See column No. 7).	Bhatdih (8 mines).	Murulidib, Katrasgarb, E. Į. B.	H. M. Bull, 1st class service, No. 23. Autho- rization, No. 59, to act as manager of more than one mine.		Bengal Coal Co. Ld., 5, Fairlie Place, Calcutta, or Post Box No. 117.		74	51	
27	Bengal (Central) Coal Co., Ld	Kantapahari (West)	Kantapahari, Katrasgarh, E.I.R.	Meghji Bhimji Belia .				71	5	•
28	Bengal Coal Co., Ld., 5, Fairlie Place, Calcutts, or Post Box No. 117.	Murulidih .	Murulidih, Katrasgarh, E. I.R.	H. M. Bull, 1st class service, No. 28. Autho- rization, No. 59, to act as manager of more than one mine.		See column No. 2.		404	350	•
29	Post Box No. 117.	Puddugora	Puddugora, Katrasgarb, E.I.R.	A. M. Thaddens, 1st class service, No. 7.	·	ľ				
80	Bengal Iron & Steel Co., Ld. (See column No. 7).	Nooncodih	Nooncodih, Jharia, E. I. R.	J. H. Stewart, 1st class competency, No. 73, in lieu of English certificate.		Martin & Co., 6 & 7, Clive Street, Calcutta, or Post Box No. 28.		246	109	
31	Bengal Nagpur Coal Co., Ld (See column No. 7).	Bhuggutdih .' (4 mines).	Bhuggutdih, Jharia, E. I. R	W. O. Mitchell, 1st elass service, No. 8. Authorisation, No. 108 to act as manager of more than one mine.		Andrew Yule & Co., 7, Clive Bow, Calcutta, or Post Box No. 150.		526	170	
32	Bhalgora Coal Co., Ld	Bhalgora	Bhalgora, Jbaria, E. I. R	J. Parker, 1st class competency, No 99, in lieu of English certi- floate.		Sircar, Barnard & Co., 2, New China Bazar Street, Calcutta, or	11	502	260	R. Barnard, Superin-
33		Simlabahal	Simlabahal, Jharia, E. I. B	D. A. Anderson, 1st class competency, No. 97, in lieu of English certificate.	 ·	Post Box No. 286.				tending Engineer.
84	Bhattacharji, U. C	Pandedih	Pandedih, Sijua, E. I. B.	W. C. Bhattacharji .				14	3	1
35	Bhulanbarari Coal Co., Ld (See column No. 7).	Bhulanbarari . (6 mines).	Bhulanbarari, Jharia, E. I. R.	J. A. Oliver, 1st class competency, No. 18. Authorization, No. 23, to act as manager of more than one mine.		F. W. Heilgers & Co., 186, Canning Street, Calcutta, or Post Box No. 185.		495	388	

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36	Biswas, P. K. Katrasgarh P. O.	Ramkanali	Ramkanali, Katrasgarh, E. I. R.		*	•••	•••	···	•••	
97	Borrea Coal Co., Ld (See column No. 7).	Bhagaband (5 mines),	Bhagaband, Jharia, E. I. B	S. H. Seddon, 1st class service, No. 72. Authorization, No. 106, to act as mana- ger of more than one mine.		F. W. Heilgers & Co., 136. Canning Street, Calcutta, or Post Box No. 185.		616	308	
99	11	Augarpatra Kantapahari	Angerpatra, Katrasgarh, E. I. R. Kautapahari, Katrasgarh E. I. R.	Rajani Kanto Mukherji, 2nd class service, No. 132. Authoriza- tion. No. 95, to act as manager of more than one mine.	-10			103	44	.
40]	Kesalpur	Kesalpur, Katrasgarh, E. I. R.	Purna Chandra Burmon, 2nd class service, No. 72.	.,,		·	\$2	21	
41	Bose, Satish Chandra Nowagarh P. O.	Bamongarh .	Bamongarh	Bansi Dhar Chattoraj .				36	26	-
42	B. R. & N. Coal Co Jharia P. O.	Joyrampur .	Joyrampur, Jharia, E. I. R.	Bira Mavji, 2nd class service, No. 99.	Roja Valgee .			43	25	
43	Budruchak Coal Mining Co., Ld. (See column No. 7).	Budruchak (6 mines).	Budruchak, Sijua, E. I. R.	J. W. Nierses, 1st class service, No. 19. Authorization, No. 151, to act as ma- nager of more than one mine.	144	Arathoon, Ld., 1, Vansit- tart Row, Calcutta, or Post Box No. 217.		153	133	75
. 44	Bulliari Coal Co. (Seth Ranchhoddas Trikamji Jiwandas). Jharia P. O.	Bulliari	Bulliari, Jharia, E. I. R.	Seth Haridas Naithu, 1st class service, No. 108.				171	115	
45	Bulliari Coa Concern (Khora Ramji). Jharia P. O.	Bulliari	Bulliari, Jharia, E. I. R.	Mulji Akhoy, 1st olass service, No. 119.	Nogha Teja			97	69	
46	Burragarh, Coal Co., Ld (See column No. 7).	Burragarh	Burragarh, Jharia, E. I. B	J. B. Wardlaw, 1st class competency, No. 73, in Iteu of English certificate.	••••	Sirear, Barnard & Co., 2, New China Bagar Street, Calcutta, or Post Box No. 286.		145	138	
47	Busserys Coal Co., Ld (See column No. 7).	Busserys	Busserya, Kusunda, E. I. R. ,	Butto Kristo Dash, 2nd class service, No. 94.	•••	Bhola Nath Dash & Co., Lalbagan, Chanderna- gore P. O.		198	111	
48	Chakrabarty, Krishnajiban 40, Clive Street, Calcutta.	Jinagora	Jinagora, Jharis, E. I. R.	Upendra Nath Chatterji, Permit, No. 82.				14	n	
F 49	Chandore Coal Co. (P. K. Roy & others). Katrasgarh P. O.	Chandors (2 mines).	Chandore, Katrasgarb, E. I. R.	Dhon Kristo Mazumdar, Permit, No. 126.		•	· , ••	58	10	

APPENDIX V-contd.

100	Name of Owner or Company arranged	Name of Mine and number		Name of Manager, and No. and Class of his	Name of Assistant	Name and address	Date of	Presons n	WALOZED	_
- Oct. 181	Name of Owner or Company arranged in alphabetical order, and postal address,	of separate Mines as defined by Rule 27.	Situation of Mine,	Certificate, Authorization or Permit	Manager and No. and Class of his Cortificate.	of Managing Agent.	establishment of Special Rules.	Below ground.	Above ground,	REMARES
			Bengal-Jharia	Coalfield (No. 1 ln	spection Circ	:le)—contd.				
50	Chandra, Girish Chandra Katrasgarh P. O.	Ramkanali (2 mines).	Ramkanali, Katrasgarb, E. I.R.	Nagendra Nath Dass, Permit, No. 46.	[N4		24	6	
51	Chandrs, Haresmal Ram Katrasgarh P. O.	Tettulia (2 mines).	Tettulia, Katrasgarh, E. I. R.	Jogadamba Prasad Lala, 2nd class service, No. 53. Authorisa- tion, No. 32, to act as manager of more than one mine.				180	80 ~ ,	
52	Chatterji, Singh & Co. (Rajendra Nath Chatterji & Gour Mohan Singh). Nowagarh P. O.	Borora , .	Borora	Romesh Chandra Das Gupta.	-			3	2	
58	Choudhuri, Satya Taran Sijua P. O.	Pandedih	Pandedih, Sijus, E. I. R.	Manmatha Nath Mu- kherji, Permit, No. 101.	·	in the second se		50	16	
3	Chuni Lal Coal Co	Bulliari	Bulliari, Kusunda, E. I. R.	Ram Chandra Marwari, Ist class service, No. 103. Authoriza- tion, No. 29, to act as manager of more than one mine.	777		•••	101	,40 . ".	,
5	Chotto Lal Kutchi , Sijua P. O.	Pandedih e .	Pandedih, Sijga, E, I, R.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		***		19.5	rac.	
6	C. M. & Co. (Chimanlal Mangaldas Keshan	Kendwadih	Kendwadih	Bhaichand Naku Doshi		***	***	28	40	,
7	Lal Parekh). Nowagarh P. O.	Koradih	,	Bepin B. Sircar, 2nd class service, No. 78.	•••	***	: ***	55	24	
3	Das, L. H.	Kujama	Kujama, Jharia, E. I. R.	Lira Walji, 1st class		***		130	110	
• -	Jharia P. O.	Paudeybera	Kujama, Jharia, E. I. R.	service, No. 107.				65	34	
9	Das, R. B Kusunda P. O.	Gararia	Gareria, Kusunda, E. I. R.	Ashutosh Dutta, Authorization, No. 10, to manage the mine		•••		50	34	

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Oheriaĵoba Coal Co. (B. B. Bose), Kusunda P. O.	Dheriajoba Dheriajoba, Kusunda, E. I. R.	Khudi Ram Banerji, Permit, No. 134.		···	· · · · · · · · · · · · · · · · · · ·	23	9
Dobari Coal Co. (S. B. Banerji & R. K. Sahana). (See column No. 7).	Dobari Dobari, Jharis, E. I. R. Ganhudi Ganhudi	Natubar Dass, 2nd class service, No. 96. Authorization,		Woomesh Chander Banerji, 38, Chuns- pukur Lane, Calcutta.	***	10	5
,	, , ,	No. 137, to act as manager of more than one mine.		panti Dane, Calcutta.		40	20
Dose, Ganji & Khunji Jharia P. O.	Futtehpur, Jharia, E. I. R.	Ganji Dosa, 2nd class service, No. 127.	•••			17	11
Dumra Coal Co	. Pinalgoria Pinalgoria	Ram Recha Singh, Permit, No. 121.		***		13	13
66 Dutt, B. L. Katrasgarh P. O.	Ramkanali, Katrasgarh,	Bihari Lall Dutt, Ist class service, No. 70.	 •	tox		18	3
67	Brahmanbarari & Brahmanbarari & Bhulun- Bhulanbarari. Brahmanbarari & Bhulun- barari, Jharia, E. I. R.	H. G. Fleury, 1st class service, No. 35.	E. Miller). 	*1*	1,283	05
East Indian Coal Co., Ld. (See column No. 7).	Bulliari and Bulliari & Khaira, Kusunda, E. I. R.	R. G. M. Bathgate, 1st class compe- tency, No. S. in lieu of English		Jardine, Skinner & Co., 4, Clive Row, Calcutta, or Post Box No. 51.	···	430	49
69	Kendwadih, Kusunda, E. I. B.	certificate.		Of Tost Box No. 51.			J. J. Turnbull, Agent.
_	1		;		i i		77
70	Sutikdih Sutikdih	H. G. Fleury, 1st class service No. 35.	(.		135	46
71	Bhowra (9 mines). Bhowra, Jharia, E. I. R.	R. J. Browne, 1st class competency, No. 17, in lieu of English certificate, Authoriza- tion, No. 171, to act				742 1	26
72 Eastern Coal Co., Ld. (See column No. 7).	Kankani Kankani Siina E I R.	as manager of more than one mine.		Mackinnon, Mackenzie & Co., 16, Strand, Calcutta, or Post Box		.	
	Kankani, Sijua, E I. R.	A. B. Crole, 1st class competency, No. 49, in lieu of English certi- ficate.		No. 163.	•••	522	48
73 .]j	Pootki (2 mines). Pootki, Jharia, E. I. R.	R. J. Browne, 1st class compstency, No. 17,		} ```	•••	•••	
•		in lieu of English certificate. Authori- zation, No. 171, to act as manager of	421 421	n majnetara. Branky aj m			V 15 ,
74 Empire Coal Co., Ld. (See column No. 7).	Sudamdih . Sudamdih, Jharia, E I. R.	more than one mine. T. Thompson. 1st class		Williamson, Magor & Co.,	١	72 1	· 04

List of Coal Mines worked under the Indian Mines Act, 1901, in British India-contd.

nber.		Name of Mine		Name of Manager and No.	Name of Assistant	V	Date of	Pansons	MATOLED	•
Serial number	Name of Owner or Company arranged in alphabetical order, and postal address.	of separate Mines as defined by Rule 27.	Situation of Mine.	and Class of his Certificate, Authorization or Permit.	Manager and No. and Class of his Certificate.	Name and address of Managing Agent.	establishment of Special Rules.	Below ground,	Above ground.	Remarks.
			Bengal - Jha	ria Coalfield (No.	Inspection	Circle)—contd.				
75	Equitable Coal Co., Ld. (See column No. 7).	Hariladib	Hariladih, Jhavis, E. I. R.	D. Bone, 1st class service, No. 9. Authorization, No. 127, to act as manager of more than one mine.		MacNeill & Co., 2, Clive Ghat Street, Calcutta, or Post Box No. 15.		270	67	
76	Ghansham Das Coal Co. Nowagarh P. O.	Pinalgoria	Pinalgoria	Ramtaran Roy, Permit, No. 124.				12	16	
77	Ghela Panchan & Co Jharia P. O.	Joyrampur (Lower).	Joyrampur, Jharia, E. I. R	Novendra Nath Bose, Permit, No. 117,				56	24	ı
78	Ghosal, Chatterji & Co Sijua P. O.	Khas Paredih .	Khas Paredih	Moheswar Ghosal, Per- mit, No. 139.		*****		81	9	
79	Ghosh, Akshaya Kumar Katrasgarh P. O.	Dharmuband .	Dharmuband	Bhola Nath Misra . Permit, No. 114.	i			14	10	
80	Gobindpur Coal Co., Ld., Katrasgarh P. O.	Gobindpur (3 mines).	Gobindpur, Katrasgarb, E. I. R.	Geo. St. J. D. Wills, 1st class service, No. 68. Authorization, No. 83, to act as manager of more than one mine.		F. W. Heilgers & Co., 136, Canning Street, Calcutta, or Post Box No. 185.		86	110	
81	Gobindpur (South) Colleries, Ld (See column No. 7).	Gobindpur (South).	Gobindpur, Katrasgarh, E. I. R.	Jagabandhu Banerji, 1st class service, No. 110.		M. L. Laik & Banerji, 7, Swallow Lane, Calcutta		136	84	Formerly owned by R. B. Singh.
82	Gopalichak Coal Co., Ld. (See column No. 7).	(lopalichak, (2 mines).	Gopalichak, Jharia, R. I. B	M. J. Adamson, 1st class service, No. 51. Authorization, No. 155, to act as manager of more than	•••	McLeod & Co., 31, Dalhousie Square, South, Calcutta, or		450	280	
83	1 ' 11	Gopalichak (West) (3 mines).	Kurkend, Kusunda, E. I. R.	one mine.		Post Box No. 78.		295	. 59	
. 84	Gorain, N. L., and others Jharia P. O.	Jairamdih		Hasaraj Sikdar, Permit, No. 88.		** ***		85	18	
85	Gorain, Bam Banu	Kendwadib	Kendwadib, Jharia, E. I. B	Bhola Nath Ghesh, . Permit, No. 115.	•••			31	14	
86	G. P. C. & Co.,	Jinagora	Jinagora, Jharia. E. I. R.	Govs Petha				80	30	

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87	Hariladih Coal Co., Ld (See column No. 7).	Burragarh	Burragarh Jharis, E. I. R.	Geo. Miller, 1st class competency, No. 57, in lieu of English certificate.		MacNeill & Co., 2, Clive Ghat Street, Calcutta, or Post Box			Figures included in that of Kendwadih.
88	j	Keudwadih	Kendwadib, Jharia, E. I. B	D. Bone, 1st class service, No. 9. Authorization, No. 127, to act as manager of more than one mine.		No. 15.		272	81 Includes figures for Burrsgarh.
89	Hockly, W. A Jharia P. O.	Ramkanali	Ramkanali, Katrasgarh, E. I. R.	E. Lightle, Permit, No. 25.	***	······· ,			
90	Howji, Tribhuban Dass Kusunda P. O.	Gararia	Gararia, Kusunda, E. I. R.	Dollabji Howji, 2nd class service, No. 97.	Ramji Furush- uttum.	******		91	70
91	Huntodih Coal Co., Ld. (See column No. 7).	Huntodih (9 mines).	Huntodih, Katrasgarb, E. I. R.	A. G. Hailes, 1st class service, No. 61. Au- thorizations, Nos. 103 and 109, to act as manager of more than one mine.		Shaw, Wallace Co., 20, Strand Road, Calcutta, or Post Box No. 70.		108 1	61
92	Indian Collieries Syndicate, Ld. (See column No. 7).	Jamadoba	Jamadoba, Jharis, E. I. R.	R. H. Dundas, 1st class competency, No. 88, in lieu of English certificate.	B. Fleming .	Kilburn & Co., 4, Fairlie Place, Calcutta, or Post Box No. 61.		1,845 4	79
98	Jharia Coal Association (S. K. Mukherji) Sijua P. O.	Pandedih	Pandedih, Sijua, E. I. R	Jamini Nath Bhatta- charji, Permit, No. 98.		****			·
94	Jharia Coal Syndicate (See column No. 7).	Emampahari .	Kujama, Jheria, E. I. B.	Sashi Bhusan Mukherji, Permit, No. 110.	,**	Surendra Nath Sen, Koila Bose's Lane, Ramkrishna- pur, Howrah P. O.		28	14
95	Jharia Coal Syndicate, Ld (See column No. 7).	Dheriajoba	Dheriajoba, Kusunda, E. I. R.	F. Miller, 1st class competency, No. 29, in lieu of English certificate.		Jardine, Skinner & Co., 4, Clive Row, Calcutta.		190	55
96	Jharia Colliery Co., Ld. (See column No. 7).	Bhaga	Bhaga, Jharia, E. I. R	W. A. Hockly, 1st class service, No. 39.	T. Simpson .	Hoare, Miller & Co., 38, Strand Road, Cal- cutta, or Post Box No. 63.	•••	202 1	17
97	Jharia (East) Coal Co., Ld	Jharia (East) or Goluckdih.	Goluckdih, Jharia, E. I. R	E. A. Whyte, 1st class service, No. 74.		Shaw, Wallace & Co., 20, Strand Road, Cal- cutta, or Post Box No. 70.		170	Previously owned by the Great Eastern Coal Co.
98	Jharia Katras Coal Co (Bihari Lal Trigunait) Katrasgarh P. O.	Braroabara	Braroabars, Katrasgarh, E. I. R.	Prankishore Trigunait, Permit, No. 140.	***	be# 184		15	20
9 9	Jharia (South) Coal Co Bhujndih P. O.	Kandra (Upper) .	Upper Kandra	Valamji Nensi					

APPENDIX V-contd.

numpe	Name of Owner or Company arranged	Name of Mine and number		Name of Manager and No.	Name of Assistant	Name and address	Date of	PERSONS B	METOXED	
Gardal nu	Name of Owner or Company arranged in alphabetical order and postal address.	of separate Mines as defined by Rule 27.	Situation of Mine.	and Class of his Certificate, Authorization or Permit,	Manager and No. and Class of his Certificate.	Managing Agent.	establishment of Special Rules.	Below ground.	Above ground.	REMARKS.
			Bengal—Jharis	Coalfield (No. 1 I	spection Ci	rcle)—contd.			٠.	
100	John and Arrateon Kusunda P. O.	Ramgarh	Tetturia Ramgarh	Ashutosh Ghosh	••• ,			8	5	
101	Joyrampur Coal Co Jharia P. O.	Joyrampur	Joyrampur, Jharis, E. I. R.	Ramji Halu, 2nd class service, No. 160.				100	30	
102	Joyrampur Coal Concern (J. K. Mukherji) 53, Chunapukur Lane, Calcutta.	Joyrampur	Joyrampur, Jharia, E. I. R.	Puranjan Mukherji . Permit, No 58.		******		35	26	
103	Jumoni Coal Co., Ld. (See column No. 7).	Madhuband (6 mines).	Madhuband, Katrasgarb, E. I. R.	L. St. J. Kelly, 1st class service, No. 42. Authorization, No. 99, to act as manager of more than one mine.	,,,	Bird & Co., 101-1, Clive Street, Calcutta, or Post Box No. 46.		339	265	H. C. Vensey, Agent.
104	Kabiraj, R. C. Sijua P. O.	Pandedih	Pandedih, Katrasgarh, E. I. R.		•••					
105	Kanga & Co. Kusunda P. O.	Alkusa	Alkusa, Kusunda, E. I. R.	Ananta Ram Bhor, 2nd class compet-	· · · · · · ·		·	175	109	
106	Lusunda P. U.	Kisks	Kiska, Kusunda, E. I. R.	enoy, No. 26.		 				1
107	Katras Oriental Coal Syndicate Katrasgarh P. O.	Pandedih .	Pandedih, Katrasgarh, E. I. R.	Bepin Behari Roy, Per- mit, No. 71		*****		16	11	
108	Kendwadih Coal Co. Gajadhar Marwari, Nogendra Nath Mandal and Mukundaram Rai) Nowagarh P. O.	Kendwadih	Kendwadib, Jharia, E. I. R.	Mukunda Lall Mondal, 2nd class service, No. 77.	***			. 18	19	
109	Kessurgurah Coal Co. (See column No. 7).	Kessurgurah .	: •••••	Kumuda Nath Bose, 2nd class service, No. 152.		M. L. Laik & Bauerji, 7, Swallow Lane, Cal- cutta.		60	30	
110	Khaira Coal Syndicate, Ld (See column No. 7).	Khaira	Khaira, Kusunda, E. I. R.	F. Miller, 1st class competency, No. 29,		Jardine, Skinner & Co., 4, Clive Street, Cal- cutta, or Post Box No.		180	40	
111	(See column No. 7).	Kurkend .	Kurkend, Kusunda, E. I. R.	in lieu of English certificate.	•	51.	,			
112	Khan Brothers	Kujama	Kujama, Jharia, E. I. R.	Abass Khan		Dr. G. N. Khan, 33, Canning Street, Calcutta.		29	76	
118	Khan, Rahim Feroz Katrasgarh P. O.	Tundu	Tundu, Katrasgarb, E. I. R	Rauf Khau, Permit, No. 33.	•••			46	22	

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114	Khandesh, Berar and Gujrat Coal Concern (Rastamji Ardesir Maca- dam.) Jharia P. O.	Chandrabad (2 mines).	Jharia, Jharia, E. I. R.	Nowroji Nosserwanji Ghandi.			***	55	10	
115	Khas Jharia Coal Co Jharia P. O.	Phularibad	Khas Jharia, Jharia, E. I. R	Jnanendra Nath Mukher- ji, 1st class service, No. 91.		******	•••	108	44	
116	Khas Jharia Colliery Co (See column No. 7).	Khas Jharia .	Khas Jharia, Jharia, E. I. R	John Wilson, 1st class competency, No. in lieu of English certificate.		F. W. Heilgers & Co., 136, Canning Street, Calcutta, or Post Box No. 185.	1**	300	160	G. M. Darby, Agent.
117	Khengarji Triku & Co Jharin P. O.	Joyrampur	Joyrampur, Jharia, E. I. R.	Mawji Rudra, Permit, No. 36.		100 -110	***	48	19	
118	Khimji Moorji & Co Jharia P. O.	Joyrampur	Joyrampur, Jharia, E. I. R	Gowamul Khimji, Permit, No. 112.				50	25	
119	Khora Ramji Kutchi Jharia P. O.	Jharia Khas .	Jharia Khas, Jharia, E. I. R.		***			77	40	
120	Koondoo, Sunda Charan 4, Sambhu Babu's Lane, Calcutta.	Kesalpur	Kesalpur, Katrasgarh, E. I. R.	Charu Chandra Banerji, Permit, No. 72.		•		29	20	
121	Kor, Sri Hari Jaydebkenduli P. O., Birbhum.	Dobari	Dobari, Jharia, E. I. R.	Dhon Hari Kor	<u></u>			27	12	•
122	Kujama (North) Coal Co Jharia P. O.	Kujama	Kujama, Jharia, E. I. R.		***	*****	r**	72	48	Lately Sainthia Coal Company's Muhuri- band Colliery.
123	Kurkend (Central) Coal Co., Ld. (See column No. 7).	Kurkend	Kurkend, Kusunda, E. I. R. ,	D. A. Whyte, 1st class service, No. 45.		Anderson, Wright & Co., 22, Strand Road, Cal- cutta, or Post Box No. 140.		336	325	
124	Kurkend Coal Co. (P. C. Roy and others) Kusunds P. O.	Kurkend	Kurkend, Kusunda, E. I. R. ,	Indra Narayan Chandra, 1st class service, No. 89. Authorization, No. 185, to act as manager of more than one mine.	***			120	40	
	Kusunda and Nayadi Collieries, Ld. (See column No. 7.)	Kusunda and Nayadi.	Kusunda, Kusunda, E. I. R	C. L. Phillips, 1st class service, No. 100.	G. John, 1st olass service, No. 44.	Martin & Co., 6 and 7, Clive Street, Calcutta, or Post Box No. 23.	***	1,604	680	
126	Lakorka Coal Co., Ld (See column No. 7).	Lakorka	Lakorka, Katrasgarh, E. I. R.	Lalit Mohan Chowdhuri, 1st class service, No. 33.		M. L. Laik and Banerji, 7, Swallow Lane, Cal- cutta,	••• •	311	251	
127	Lall, Daroga	Belanjabad	Belanjabad	Ram Ranjan Sikdar			••• •••	6	15	·

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APPENDIX V-contd.

List of Coal Mines worked under the Indian Mines Act, 1901, in British India-contd.

nber.	Name of Owner or Communication	Name of Mine and number		Name of Manager and No.	Name of Assistant	Name and address	Date of	Pausons n	REPOSED.	
Serial numb	Name of Owner or Company arranged in alphabetical order, and postal address.	of separate Miges as defined by Rule 27.	Situation of Mine.	and Cines of his Certificate, Authorization or Permit,	Manager and No. and Class of his Cortificate.	Managing Agent.	establishment of Special Rules.	Below ground.	Above ground.	Rymares.
			Bengal-Jharia	Coalfield (No. 1 In	spection Cir	cle)—contd.				
128)	Chasnalla	Chasnalla, Jharia, E. I. R.	T. C. Murray, 1st class service, No. 66.]		52	198	
129	Lodna Collicry Co., l.d (See column No. 7).	Lodus (5 mines)	Lodna, Jharia, E. I. R.	H. J. Chambers, 1st class competency, No. 10, in lieu of		Turner, Morrison & Co., 6, Lyons Range, Cal- cutta, or Post Box No. 68.	***	1,087	817	,
130 j	jį	Madhuband	Madhuband	English certificate.	i	j				
131	Lutchipur Coal Co., Ld. (See column No. 7).	Choitodih (10 mines).	Choitodih, Katrasgarh, E. I. R.	T. C. Barker, 1st class service, No. 67. Authorization, No. 40, to act as manager of more than one mine.		Bird & Co., 101-1, Clive Street, Calcutta, or Post Box No. 46.		234	450	H. C. Veasey, General Manager.
132	Mahato, Baidya Nath	Bahiardih		Dawrika Prasad Lala, Permit, No. 87.		******				
133	Manbhum (New) Coal Co., Ld. (See column No. 7).	Ganzlatan (2 mines).	Gauziatau, Sijua, E. I. R	T. C. Piggford, 1st class competency, No. 67, in lieu of English certificate. Authori- zation, No. 148, tojact as manager of more than one mine.	***	Octavius Steel & Co., 14, *Old Court House Street, Calcutta, or Post Box No. 55.	***	168	110	
134	Marine Coal Co., Ld (See column No. 7).	Kurkend (East) .	Kurkend, Kusunda, E. I. R	R. F. Augier, 1st class service, No. 26.		McLeod & Co., 31, Dalhousic Square, South, Calcutta, or Post Box No. 78.	***	55	110	(Lately owned by the East Kurkend Coal Company.
135	Motirem Coal Co. Kusunda P. O	Kurkend	Kurkend, Kusunda, E. J. R	Ram Chandra Marwari, 1st class service, No. 103. Authoriza- tion, No. 29, to act as manager of more than one mine.				170	30	
186	Mucheridih Coal Syndicate (See column No. 7).	Mucheridih . (7 mines).	Mucheridih , ,	W. H. Topham, 1st class competency, No. 11. Authorization, No. 119, to act as manager of more than one mine.		Bagram & Co., 14/2 Clive Street, Calcutta.		125	121	

137	Mukherji & Co., K. L	Tettulia	Tettulia, Katrasgarlı, E. I. R	Poolin Beharî Mittra, 1st class service, No. 56.	* 454			•		
138'	Mukherji & Co., S. K Sijus P. O.	Pandedih	Pandedih, Sijua, E. I. R	Nanda Lal Mukherji .	***			52	13	
139	Muttigurra Coal Co., Ld (See column No. 7).	Muttigurra	Muttigurra	F. B. Foster, 1st class service, No. 47.	•••	Octavius Steel & Co., 14 Old Court House Street, Calcutta, or Box No. 55.				
140	Nandi, Maharaja Manindra Chandra, Cossimbazar P. O., Murshidabad.	Ekra Khas	Ekra, Kusunda, E. I. R.	Basanto Kumar Roy, Ist class service, No. 86.			·	400	62	Monmotho Nath Roy. General Manager.
141	Nanji, Khanji & Sanji Jharis P. O.	Kujama	Kujama, Jharia, E. I. R.	Valji Kheta, 2nd class service, No. 75.				88	•••	
142	National Coal Co. (Badha Kinkur Chattoraj) Katrasagarh P. O.	Chandore	Chandore, Sijua, E. I. R.	Upendra Nath Nandi, Permit, No. 131.				15	4	
143	North-West Coal Co., Ld (See column No. 7).	Ena. (2 mines).	Ens, Jharis, E. I. B	W. C. Heysham, 1st class service, No. 79. Authorization, No. 101, to act as manager of more than one mine.		Andrew, Yule & Co., 7, Clive Row, Calcutts, or Post Box No. 150.	•••	130	80	,
144	Nowagarh Coal Co., Ld. (See column No. 7).	Katras (13 mines).	Katras, Katrasgarh, E. I. R.	T. K. Pleischer, 1st class service, No. 10, Authorization, No. 35, to act as manager of more than one mine.		Bird & Co., 101-1, Clive Street, Calcutta, or Post Box No. 46.		640	437	H. C. Veasey, General Manager.
. 145	Nudkhurki Coal Co (See column No. 7).	Nudkhurki . (14 mines).	Nudkhurki	Gopal Chandra Bhutta- charji, 1st class service, No. 77. Authoriza- tion, No. 165, to act as manager of more than one mine.	ĺ	Shragers, Ld., 7, Swallow Lane, Calcutta	•	96	. 26	
146	Pain, B. L	Chandore	Chandore Sijua, E. I. R	Narendra Nath Roy, Permit, No. 8.	•••			35	. 24	
147	Pandakanali Ceal Co., Ld (See column No. 7).	Paudakanali (3 mines).	Pandakanali	B. S. Field, 1st class compstency, No. 92, in lieu of English certi- ficate. Authoriza- tion, No. 176, to act as manager of more than one mine.		Bird & Co., 101-1, Clive Street, Calcutta, or Post Box No. 46.				E. S. Bennertz, Agent.
148 K 19	Pandedih Coal Syndicate (Bajrangbali Singh, Mit Narayan Singh & Munshi Lal Mistri) Katrasgarh P. O.	Pandedih	Pandedih, Sijus, H. I. R.	Raghu Nath Lal		944		18	5	

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List of Coal Mines worked under the Indian Mines Act, 1901, in British India—contd.

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nber.	Name of Owner or Company arranged	Name of Mine and number of		Name of Manager and No.	Name of Assistant		Date of	Раволя в	MPLOYED	
Berial number.	in alphabetical order and postal address.	separate Mines as defined by Rule 27.	Situation of Mine.	and Class of his Certificate, Authorization or Permit.	Manager and No. and Class of his Certificate.	Name and address of Managirg Agent.	establishment of Special Rules.	Below ground,	Above ground.	Remarks,
			Bengal-Jharia	Coalfield (No. 1 In	spection Cir	cle)—contd.				•
149	Pandeybera Colliery Co. (Daya Sankar Shamji) Jhavia P. O.	Pandeybera .	Kujama, Jharia, E. I. R.	Daya Sankar Shamji, 2nd class service, No. 19.		···		51	87	
150	Parasea Collieries, Ld (See column No. 7).	Nichitpur	Nichitpur	F. L. Cork, 1st class service, No. 30.	 `	Shaw, Wallace & Co., 20, Strand Road, Calcutta, or Post Box No. 70.	•		·. .	,
151	Parelgaria Coal Co. (Komolram Marwari) Kusunda P. O.	Parelgaria	Damra	Kishory Mohan Chatterji.	***	***		20	26	
152	Patel & Co. Kusunda P. O.	Kusunda	Kusunda, Kusunda, E. I. R.	Keshob Chandra Mitter, 2nd class service, No. 60.				70	56	
153	Pholaritand Cosl Co., (See column No. 7).	Phularitand . (4 mines).	Phularitand	Rhys Davies, 1st class competency, No. 48, in lieu of English certificate. Authorization, No. 177, to act as manager of more than one mine.		N. C. Sircar & Sons. 5, Clive Ghat Street, Calcutta, or Post Box No. 285.		102	20	84
154	Pipratand Coal Co., Ld. (See column Nc. 7).	Pipratand	Pipratand	John Marshall, 1st class competency, No. 85, in lieu of English certi- ficate.		Williamson, Magor & Co., 4, Mangoe Lane, Cal- cutta, or Post Box No. 177.		63	46	
155 156	Premji and Devahi Hamir Jharia P. O.	Durgapur Fuitehpur	Durgapur, Jharia, E. I. R Futtehpur, Jharia, E. I. R	Devshi Hamir, 2nd class service, No. 1. Authorization, No. 178, to act as manager of more than one mine.	}			90	70	
157	Rahu and Son, Sasi Bhusan (See column No. 7).	Godhur (4 mines).	Godhur, Kusunda, E. I. R.	Purns Chunder Biswas 1st class service, No. 105. Authorization, No. 87, to act as mana ger of more than one			,	151	59	Lately owned by Mylne & Co.
158	Ranidih Coal Co. (Sasi Bhusan Chatterji.) (See column No. 7).	Ranidih (4 mines).	Ranidih, Katrasgarh, E. I. R	mine. H. O. Hailes. Permit, No. 116. Authoriza- tion, No. 174 to act as manager of more than one mine.		S. Chatterji & Sons, 50, Nandaram Sen's Street, Calcutta.				

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159		Kustore No. 1, District. (Workings at Ganhudi and North of Alkusa.)		(S. Kirk, 1st class competency, No. 79, in lieu of English certificate.		•••••		226	135	
160	Ranigavj Coal Association, Ld. (See column No. 7).	Kustore No. 2, District. (Workings North of Kustore and South of Alkusa.)	Kiska, Kusunda, E. I. R	J. B. Wilkinson, 1st class competency, No. 6. Authorization, No. 114 to act as manager of more than one mine.		Kilburn & Co., 4, Fairlie Place, Calcutta, or Post Box No. 61.	•••	14	142	
161	J	Kustore No. 3 District. (15 and 16 seams.)		B. F. Campbell, 1st class competency, No. 56, in lieu of English certificate.				163	135	
162	Reliance Coal Co., Ld (See column No. 7).	Mudidih (8 mines).	Mudidih, Sijus, E. I. R.	A. A. V. Sam, 1st class service, No. 48. Au- thorization, No. 41, to act as manager of more than one mine.	`	Bird & Co., 101-1, Clive Street, Calcutta, or Post Box No. 46.	***	750	396	
168	R. M. R. Coal Concern Jharia P. O.	Joyrampur	Joyrampur, Jharia, E. I. R	Mavji Gokal, 2nd class service, No. 121.			. 	70	27	
164	Roy, J. K	Kusunda	Kusunda, Kusunda, E. I. R	D. W. C. Smith, 2nd class service, No. 146.		******		60	40	
165	Roy, Moheswar & Srikontho Kusunda P. O.	Gararia	Gararia, Kusunda, E. I. R.	Brojo Kishore Sen, Permit, No. 35.				43	53	
166	Roy, P. C. Kutrasgarh P. O.	Gansadih	Gansadih	Indra Narayn Chandra, 1st class service, No. 89. Authoriza- tion, No. 185, to act as manager of more than one mine.			•••• ·	70	30	
167		Ramkauali .	Ramkanali, Katrasgarh, E. I. R.	Gosto Behari Mozumdar, Permit, No. 132.	•••	······	·	55	14	
1 6 8] 	Surateur .	Jharia Khas, Jharia, E. I. R	Pran Krishna Mozum- dar, 2nd class service, No. 80.		******	•••	46	46	
169	Sanker, T. R	Gararia	Gararia, Kusunda, E. I. R.	Chuni Lal		241 +34				
170	Scal, K. B Jhavia P. O.	Surataur	Jharia Khas, Jharia, E. I. R.	Ananta Lal Mukherji .	Hari Prafulla Mukherji. 2nd class competency, No. 17.			165	44	
171	Selected Coal Co. (Kalianji Shamji). (See column No. 7).	Kusunds	Kusunda, Kusunda, E. I. B	Deoram Purshotam Vankani, 2nd class service, No. 30.	. 	Kanji Monji & Co., 210, Harrison Road, Calcutts.		99	38	

APPENDIX V-contd.

mber.		Name of Mine	1	Name of Manager	Name of			PRESONS 1	REPOSED	
Serial nur	Name of Owner or Company arranged in alphabetical order and postal address.	and number of separate Mines as defined by Rule 27.	Situation of Mine.	and No. and Class of his Certificate, Authorization or Permit.	Assistant Manager and No. and Class of his Certificate,	Name and address of Managing Agent.	Date of establishment of special Rules.	Below ground.	Above ground.	Венария.
			Bengal-Jhari	a Coalfield (No. 1	Inspection C	Circle)—contd.				
172	Sendra Coal Co., Ld (See column No. 7).	Sendra (2 mines).	Sendra, Sijua, E. I. R	N. Miller, 1st class service, No. 50. Authorisation, No. 141, to act as manager of more than one mine.		F. W. Heilgers & Co., 136, Canning Street, Calcutta, or Post Box No. 185.		137	88	,
73	Sijua Coal Co., Ld (See column No. 7).	Sijus	Sijua, Sijua, E. I. R.	Joseph Miller, 1st class service, No. 80. Au- thorization, No. 157, to act as manager of more than one mine.	414	Balmer, Lawrie & Co., 103, Clive Street, Calcutta, or Post Box No. 4.		311	662	
174	Singh & Co., Atma	Khalsa	Bodors	149444				30	10	
175	Singh, Bir Katraagarh F. O.	Kesalpur (Imperial) (3 mines).	Kesalpur, Katrasgarh, E. I. R.	Ramantar Singh, Permit, No. 120. Authorization, No. 188, to act as manager of more than one mine.			.	• •••		
176	Singh, Gour Mohan, Baroragarh, Nawagarh P. O.	Mandra Khas .	Mandra	Ròmesh Chandra Das Gupta. Permit No. 111.	•••					
177	Singh, Jit Narayan and Mit Narayan. Katrasgarh P. O.	Mandra .	Mandra	Sahid Khan	. ***					
. 178	Singh, Jorahar	Pandedih	Pandedih, Sijua, E. I. R.		****					
179	Sinidih Coal Co., Ld (See column No. 7).	Sinidih (8 mines).	Sinidih	John White, 1st class competency, No. 31, in lieu of English certi- ficate. Authorization, No. 180, to act as manager of more than one mine.	.	Williamson, Magor & Co., 4, Maugoe Lane, Cal- cutta, or Post Box No. 177.	***	134	235	
180	Sinidih Coal Concern (See column No. 7).	Sinidih	Sinidib	Noni Dhon Bhattacharji	· ··	Dr. G. N. Khau, 33, Canning Street, Cal- cutta.		50	-50	

161	Sircar, R. B. Kusunda P. O.	Kurkend	Kurkend, Kusunds, E. I. R	Mathura Nath Ghosh, 2nd class service, No. 8.					
182	Smith, C. J (See column No. 7).	Bagdiggi (8 mines)	Bagdiggi, Jharis, E. I. R.	J. W. Murphy, 1st class competency, No. 7. Authorization, No. 150, to act as mana- ger of more than one mine.		Hoare, Miller & Co., 38, Strand Road, Cal- cutta, or Post Box No. 63.		551 181	
188	Sowardih Coal Co (N. L. Gorain and others) Jharia P. O.	Sowardib	Sowardih, Jharis, E. I. R.	Hari Prosauna Ghose .		1		152 125	
184	Srimaui, J. N.	Angarpatra	Angarpatra, Sijua, E. I. R.	Rakhal Das Mukherji, 2nd class service, No. 76.				110 85	
185	Katrasgarh P. O.	Kantapahari .	Kantapahari, Sijua, E. I. R.	Sasi Bhusan Banerji. Permit, No. 58.				80 20	
186		Benahir	Benahir, Jharis, E. I. R.	G. M. Darby, 1st class service, No. I.	S. B. Banerji			400 250	
187	Standard Coal Co., Ld (See column No. 7).	Hariladih	Hariladih, Jharis, E. I. R.	N. Miller, 1st cliss service, No. 50. Authorization, No. 14 to act as manager of more than one mine.		F. W. Heilgers & Co., 136, Cauning Street, Calcutta, or Post Box No. 185.		135 95	G. M. Darby, Agent.
188	} .	Jharia Khas.	Jharia Khas, Jharia E. I. R	Walter Jardine, 1st class competency, No. 86, in lieu of English certificate.]		425 230	87
189	Sudamdih Coal Co., Ld	Sudamdih	Sowardih, Jharia, E. I. B.	W. T. S. Gibson		N. C. Sirear & Sons, 5, Clive Ghat Street, Cal- cutta, or Post Box No,	, 	87 51	
190	Sudamdih Coal Co., Ld. Kusunda P. O.	Kurkend	Kurkend, Kusunda, E. I. B.	John Knox, 1st class competency, No. 84, in lieu of English certi- ficate.		285.	***	220 78	Lately owned by the Jewel Coal Co.
191	Sudriadih Coal Co., Ld Nowagarh P. O.	Sudriadih	Sudriadih, Katrasgarh, E. I. R.	W. Combey, 1st class competency, No. 68, in lieu of English certi- ficate.	ı	Shaw, Wullace & Co., 20, Strand Road, Cal- cutta, or Post Box No. 70.		110 135	
192	Tandabari Coal Syndicate Sijua P. O.	Tandabari (4 mines).	Tandabari	Ras Behari Basu, Per- mit, No. 96.				72 91	
193	Tentulis Colliery Co. Katrasgurh P. O.	Tentulia (6 mines).	Tentulis	Gosto Behary Roy, 2nd class service, No. 124. Authorization, No. 161, to ast as manager of more than one mine.		D. N. Ghosh & Bros., North Bantra, Howrah.		106 50	E. M. Patterson, Mauaging Director.

APPENDIX V-contd.

oper.	Name of Owner or Company arranged	Name of Mine and number of		Name of Manager and No. and Class of his	Name of Assistant	Name and address	Date of	PERSONS		
Serial number.	Name of Owner or Company arranged in alphabetical order and postal address.	separato Mines as defined by Rule 27.	Situation of Mine.	and Class of his Certificate, Authorization or Permit.	Manager and No. and Class of his Certificate.	of Managing Agent.	establishment of Special Rules.	Below ground.	Above ground.	REMIRES.
			Bengal-Jharia	Coalfield (No. 1 Ins	ection Circ	le) -concld.				
194	Tetturia (New) Coal Co., Lul Katrasgarb P O.	Tetturia (6 mines).	Tetturia, Kutrasgarb, E. I. R.	Geo. Emmerson, 1st class competency, No. 83, in lieu of English certificate. Authorization, No. 162, to act as manager of more than one mine.	***	Shaw, Wallace & Co., 20, Strand Road, Cal- cutta, or Post Box No. 70		787	188	• ,
195	Tetturia (West) Collieries, Ld. (C. M. Carapiet) Katrasgarh P. O.	Tetturia .	Tetturia, Katrasgarh, E. I. R.	R. S. Ashcroft, Authorization, No. 4, to manage the mine temporarily.	*,*			112	102	
196	Titulmuri Coal Co., Ld Sijua P. O.	Titulmuri (3 mines).	Titulmuri, Sijua, E. I. R	E. G. Seth Sam, 1st class service, No. 75. Authorization, No. 42 to act as manager of more than one mine.				400	135	C. H. Armstrong, Managing Director.
197	Trigunait, Bhubaneswar Sijua P. O.	Paudedih	Pandedih, Sijua, E. I. R	Sasi Bhusan Ghosh, 2nd class service, No. 52.						Figures included in M. Trigunait's Angar- patra and Kantapahari collieries.
198	Trigunsit, Brojo Bhusan . Katrasgarh P. O.	Chandore	Chandore, Sijua, E. I. R	Sasi Bhusan Ghose, Permit, No. 93.				71	41	conteries.
199	Language 1. C.	Ramkanali	Ramkanali, Katrasgarh, . E. I. R	Bisesswar Roy, Permit, No. 107.)			33	22	
200	Trigunait Brothers Coal Co Katrasgarh P. O.	Angarpatra	Angarpatra, Sijua, E. I. R.	Mukunda Lall Missra, 2nd class service, No. 163.				196	115	
201	}	Chandore	Chandore, Sijus, E. I. R.	1			Ì			}
	Trigunait, Mukteswar			Sasi Bhusan Ghosh, 2nd class service, No. 52.				154	91	Includes figures for B. Trigunnit's Pandedih Colliery.
202)	Kantapahari .	Kantapahari, Sijua, E. I. R	לן]			
208	Trigunait, Sudarsan Katrasgarh P. O.	Chandore , .	Chandore, Sijua, E. I. R. Pandedih, Sijua, E. I. R.	Sorbeswar Chatterji, Permit, No. 100. Authorization, No. 47, to act as manager of more than one mine.				44		

205	Union Coal Co., Ld	Angarpatra (6 mines.)	Augarpatra Sijua, E. I. R.	R. Purdy, 1st class service, No. 93, in lieu of English certificate. Authorization, No. 169, to act as manager of more than one mine.	m	Williamson, Magor & Co., 4, Mangoe Lane, Calcutta, or Post Box No. 177.		140	40		
208	Verskotah Syndicate, Ld Jharia P. O.	Verakotah	Verakotah, Jharia, E. I. R	H. J. L. Belletti, 1st class service, No. 3.		H. J. L. Belletti, Jharia		:	•••		
207	Vithalram Coal Co (See column No. 7).	Bodera	Bodora	Narotam Hari Shunkar, Ojha, Permit, No. 156.		Dr. G. N. Khan, 33, Can- ning Street, Calcutta.	***		•••		
208	Vurma Coal Co	Pinalgoria	Pinalgoria	Sankar Singh, Permit, No. 59.		Jamuus Pressed and Jata- ram Lal, Katrasgarh P.O.	•••	8	10	,	
209	Western India Coal Trading Co Nowagarh P. O.	Western India .	Nudkhurki ,			K. Desai & Co., Nadiad P. O., B. B. & C. I. R.		62	43	hakoro, Agent.	
			Bengal—Ra	niganj Coalfield (No	. 2 Inspectio	on Circle).					
1	Abdul Karim & Bros	Kapasara (10 Bighas plot.)	Kapasara, Mugma, E. I. R.	Gupat Nath Missir, Permit, No. 141.				29	11	•	
2	Barakar F. U.	Kapasara (15 Bighas plot.)	Kapasara, Mugma, E. I. R	Ahmed Yusuf, Permit, No. 142.		,·			•••	•	
9	Adam Joosah & Co Barakar P. O.	Каразага	Kapasara, Mugma, E. I. R	Ashutosh Misera, Permit, No. 104.		*** ***		15	5		89
4	Ahmed Yusuf	Egarcoor	Egarcoor, Mugma or Barakar, E. I. R.	Trimbaklal Umiashanker Dholakia.				12	3		
5	Aldih Coal Co., I.d (See column No. 7.)	Aldih (3 mines.)	Aldih, Sitarampur, E. I. R	W. M. Martin, 1st class competency, No. 64, in liou of English certi- ficate. Authorization, No. 128, to act as manager of more than one mine.		MacNeill & Co., 1/2, Clive Ghat Street, Calcutta, or Post Box No. 15.		707	157	W. Miller, Superintendent.	
6	Annapurna Coal Co. (Ram Bondhu Maji and Lachmi Narayan Marwari) Kulti P. O.	Birsingpur	Birsingpur	Gouri Sankar Boy Chowdhury, 2nd class service, No. 73.				17	26		
7	Banerji, Bidhu Sekhar Salanpur P. O.	Sabanpur . (3 mines.)	Sabanpur	Gobordhan Banerji, Permit, No. 97. Au- thorization, No. 160, to act as manager of more than one mine.				21	14		
8	Baraboni Coal Concern, Ld	Chinchuria	Chinchuria, Baraboni or Asansol, E, I, R.	Pulin Behari Mittra, 1st class service, No. 56.	***	N. C. Sircar & Sons, 5, Clive Ghat Street, Calcutta, or Post Box		221	277	W. Burt, Superin- b tending Engineer.	
z 9	See column No. 7.)	Nuni	Nuni, Sitarampur or Asansol, E. I. B.	Authorization, No.144 to act as manager of more than one mine		No. 285.		146	112	J.	

APPENDIX V—contd.

mber	Name of Owner or Company arranged	Name of Mine		Name of Manager, and No. and Class of his	Name of Assistant	V	Date of	Ривновн	employed	
Serial number	Name of Owner or Company arranged in alphabetical order, and postal address.	of reparate Mines as defined by Bule 27.	Situation of Mine.	and Class of his Certificate, Authorisation or Permit,	Manager and No. and Class of his Certificate.	Name and address of Managing Agent.	establishment of Special Rules.	Below ground.	Above ground.	R _h wares.
,			` Bengal—Raniga	nj Coalfield (No. 2	Inspection C	Circle)—contd.				
10	Baraboni Coal Concern, Ld (See column No. 7.)	Sudih	Sudih	Purna Chundra Gau- guli, 2nd class ser- vice, No. 49.		N. C. Sirear & Sons, 5, Clive Ghat Street, Calcutta, or Post Box No. 285.		284	105	
11	Barakar Brick and Tile Syndicate. Barakar P. O.	Garphalbari .	Garphalbari, Mugma, E. I. R.	G. Shearer,* 2nd class service, No. 10.		****		33	4	Also Managing Director.
12 13	Barakar Coul Co. Ld	Alipur	Alipur	F. A. Roberts, 1st class competency, No. 13. W. F. Seton-Burn, 1st class service, No. 125. Authorization, No. 158, to act as mana- ger of more than one mine.		Bird & Co., 101-1, Clive Street, Calcutta, or Post Box No. 46		46	69	90
14	Barakar Coal Syndicate (See column No. 7.)	Jograd	Jugrad ,	Kamikhya Nath Ghat- tack, 2nd class ser- vice, No. 18.	188	K. L. Mukherji & Co., 29, Pollock Street, Calcutte.				
15	Barakar (West) Coa! Co Barakar P. O.	Mugma	Mugma, Mugma, E. I. R.	Ram Gopal Dey, Permit, No. 137.	***	******				
16	Beerbhum (New) Coal Co., Ld. (See column No. 7.)	Belrui	Belrui, Sitarampur, E. I. R Borrea, Kulti, E. I. R	Amos Lowe, 1st class service, No. 31. J. G. Maughan, 1st class service, No. 13.	··· .	Balmer, Lawric & Co., 103, Clive Street, Calcutta, or Post Box No. 4.		155	132 617	S. Heslop, Superintenden*.
18 19 20 21		Chanch	Chanch, Barakar, E. I. R. Dumarkunda, Barakar, E. I. R. Sanctoria, Barakar, E. I. R. Laikdih, Barakar, E. I. R.	W. Forster, 1st class service, No. 12.	J Hyde .			1,009	5 2 4	

22	Bengal Coal Co., Ld. 5, Fairlie Place, Calcutta, or Post Box No. 117.	Sanctoria (2 mines.)	Sanctoria, Barakar, E. I. R.	P. H. Asheroft, 1st class service, No. 11. Authorization, No. 145, to act as manager of more than one mine.	-44	See column No. 2		606	265	G. F. Scott, Chief Mining Engineer.
23		Sitalpur	Sitalpur, Barakar, E. I. R.	A. J. Cooper, 1st class competency, No. 8.				493	93	
24	J . (SoJepur	Sodepur, Sitarampur or Barakar, E. I. R.	R. S. Davis,1st class competency, No. 81 in lieu of English cer- tificate.	•	}		1,:63	619]
25	Bengal Imperial Coal Co Barakar P. O.	Mugma, .	Mugma, Mugma, E. I. R.	Jadunath Chackerbutty						
26	Bengal Iron and Steel Co., Ld. (See column No. 7.)	Kendwa .	Kendwa, Barakar or Kulti, E. I. R.	A. H. M. Paton, Ist class competency, No. 39, in lieu of English certificate. Authorization, No. 139, to act as manager of more than one mine.		Martin & Co., 6 and 7, Clive Street, Calcutta, or Post Box No. 23.		69	13	
27	J	Ramnagar	Ramnagar, Barakar or Kulti, E. I. R.			J		202	32	
28	Bengal Nagpur Coal Co., Ld (See column No. 7.)	Gangutia	Gangutia, Barakar, E. ¹ . R	H. M. Daley, 1st class service, No. 28. Au- thorization, No. 90, to act as manager of more than one mine.	••· .	Andrew Yule & Co., 7, Clive Row, Calcutta, or Post Box No. 150,		241	65	91
29	Bengal Oriental Coal Co Barakar P. O.	Kapasara	Kapasara, Mugma, E. I. R.	Mugat Ram Nagar, Permit, No. 130. Authorization, No. 56, to act as manager of more than one mine.	,			30	10	
80	Bhattacharji & Co., U. C Barakar P. O.	Egarcoor	Egarcoor, Mugma, E. I. R	Ramanath Dass		*****	·	112	17	
31	Bhattacharji, Jagadishwar, Dawn Upendra Nath, & Kobi, Behari Lal Barakar P. O.	Egarcoor	Egaveoor, Mugms, E. I. R.	*****					,	
32	Birsingpur Coal Co. (Abhoya Charan Banerji.) Norshachati P. O.	Birsingpur	Birsingpur	Ram Nayas Kanji, Permit, No. 122.	····, '			17	:6	
93	Bonjamari Coal Co	Bonjamari	Bonjamari, Baraboni or Asauso', E. I. R.	Ram Chandra Mukherji, Permit, No. 88.		*** ***	···	17	16	
34	Barrea Coal Co., Ld (See column No. 7.)	Salanpur	Salanpur, Salanpur or Sitaram- pur, E. I. R.	John Gilmour, 1st class competency, No. 11, in lieu of English certificate.	***	F. W. Heilgers & Co., 136, Canning Street, Calcutta, or Post Box No. 185.		514	65	J. Macintosh, Superintendent.

List of Coal Mines worked under the Indian Mines Act, 1901, in British India-contd.

190		Name of Mine		Name of Manager, and No.	Name of Assistant	Name and address	Date of	PERSONS	MPLOYED	
Torre namon.	Name of Owner or Company arranged in alphabetical order, and postal address.	and number of reparate Mines as defined by Rule 27.	Situation of Mine.	and Class of his Certificate, Anthorization or Permit.	Manager and No. and Class of his Certificate.	Name and address of Managing Agent.	establishment of Special Rules.	Below ground.	Above ground.	Rzwarze,
			Bengal—Raniga	ınj Coalfield (No.	Inspection	Circle—contd.			į	
35	Brindabonpur Coal Co. (Horo- gobindo Goswamy, and Kanairam Marwari.) Mugma P. O.	Brindsbonpur .	Brindabonpur	Harish Chandra Roy .				***	•	
86	Burn & Co., Ld	Egarcoor	Egarcoor, Mugma, E. I. R	Pramatha Nath Missir, Permit, No. 161.		Burn & Co., 7, Hastings Street, Calcutta, or Post Box No. 191,		19	12	
87	Charnock Collieries, l.d (See column No. 7.)	Charnock (5 mines).	Sarakdih	J. W. Thornton, 1st class competency, No. 16. Authorization, No. 169, to act as manager of more than one mine.		Societa Coloniale di Trieste, 134, Canning Street, or Post Box No. 132, Cal- cutta.				- Y
38	Chatterji Colliery Co. (A. C. Chatterji). 12/4 & 12/5, Pataldanga Street, Calcutta.	Mouthdih	Mouthdib, Sitarampur, E. I. R.	Kedar Nath Chatterji, 2nd class service, No. 112.					40	
19	Chatterji, Ram Bandhu Dishargarh P. O.	Chota Dhemo .	Chota Dhemo, Sitarampur, E. I. B.	Rhishi Kesh Ghosh, Permit, No. 44.	·		***	58	11	
ю	Chatterji, Shashi Bhusan 46A, Strand Road, Calcutta.	Khudia	Shampur, Mugma, E. I. R	′ ,			·	45	35	
11	Chhaganlal Nagar	Egarcoor	Egarcoor, Mugma, E. I. R.	Ramji Vishram Chauda, Permit, No. 99.				13	5	
12	Chirkunda (New) Coal Co. (Jugal Kissor Marwari & others.)	Egarcoor	Egarcoor, Mugma, E. I. R	Harish Chandra Roy, Permit, No. 105.				48	36	
18	Chota Dhemo Coal Co (See column No. 7).	Chota Dhemo .	Chota Dhemo, Sitarampur, E. I. R.	Aswini Kumar Dutta, 2nd class competency, No. 12.		M. L. Laik and Banerji, 7, Swallow Lane,			39	
14	Damra Coal Co., Ld (See column No. 7).	Nuni	Nuni, Sitarampur or Asansol, E. I. B.			Calcutta.		1		
15 16		Bamundiha Burra Dhemo .	Bamundiha, Sitarampur, E. I. B. Burra Dhemo	C. H. McCale, 1st class competency, No. 30. in lieu of English certificate.	J. Delmas .	Balmer, Lawrie & Co., 103, Clive Street, Calcutta, or Post Box		200	78	
47	Damuda Coal Co., Ld		Gopalpur, Sitarampur, E. I. R.	Author is at i on, No. 121, to act as		No. 4.				
48	1 ' '		Lutchipur, Sitarampur, E. I. R.	manager of more				250	90	

	Dutt, Jadab Chandra Barakar P. O.	Mugma		Madhab Chandra Dutta	444			18	13	
E 0	Dutt Kabra Coal Co	Begunia	Begunia, Barakar, E. I. R	Nagendra Nath Banerji . Permit, No. 86.	***			47	5	ļ
51		Egarcoor	Egarcoor, Mugma, E. I. B.	Hem Chand Jugjiban Mehta.	~.		•••	23	14	
52	Dutt, Presanno Coomar Sitarampur P. O.	Bamundiha .	Bamundiha, Sitarampur, E. I. R.	Hari Charan Dubt, 1st class service, No. 24. Authorization, No. 80, to act as manager of more than one mine.	•••		· •••	14	11	
53	East Indian Coal Co., Ld. (See column No. 7.)	Agoa	Agoa, Mugma, E. I. R.	Koilas Chandra Banerji, 2nd class service, No. 3.	,	Jardine, Skinner & Co., 4, Clive Row, Calcutta, or Post Box No. 51.	•••	80	17	J. J. Turnbull, General Manager.
54		Chowrasi .	Chowrasi, Barakar, E. I. R	Adam Murdoch, 1st class competency, No. 63, in lieu of English		,		852	154	
	Equitable Coal Co., Ld (See column No. 7.)			certificate.		McNeill & Co., 1/2, Clive Ghat Street, Calcutta, or Post Box No. 15.				W. Miller, Superintendent.
55] 	Dishargarh .	Dishargarh, Barakar, E. I. B.	R. C. Barrowman, 1st class competency, No. 24, in lieu of English certificate.	744	() 		1,480	830	<i>j</i> ;
56	Fatka Coal Co. (M. L. Laik; M. G. Chandra and others.) Nirshachati P. O.	Fatka or Pandedib.	Paudedih, Mugma, E. I. R.	Pravakar Chatterji, 2nd class competency, No. 19.			·	54	9	
57	Friends Coal Co. (Indra Bhushan Mukherji and Jagabandhu Roy). Nirshachati P. O.	Bandarchooa .	Bandarehooa	Srinath Banerji, Permit, No. 92.	***	·····		-	•••	
58	Ganguly, Janendra Nath Sitarampur P. O.	Sudihi	Sudihi, Sitarampur, E. I.R	Bibhuti Bhusan Ganguli.			,			
5 9	Ganguly, Sircar, Roy & Co. Samdi P. O. Via Sitarampur	Khoirabad	Khoirabad	Debendra Nath Ganguli	*					
60	Ghose, Kunja Behari {	Ketherdih			-		***	30	5	
61	Kulti, Burdwan.	Palasia	Palasia	Kunja Behari Ghose .	•••					
62	Gorain, Nanda Lall and others . Barakar P. O.	Begunia	Begunia, Barakar, K. I. R.	Rajendra Lal Sarkar	-		***	52	9	,
63	Jafar Yusuf Barakar P. O.	Kapasara	Kapasara, Mugma, E. I. R	Sarbeswar Sen, Permit,						

APPENDIX V-contd.

ım per	Name of Owner or Company, arranged	Name of Mine		Name of Manager, and No.	Name of Assi-tant	Name and address	Date of	PRESONS	EMPLOYED	
Serlai nu	Nume of Owner or Company, arranged in alphabetical order and postal address.	Name of Mine and number of separate Mines as defined by Rule 27.	Situation of Minc.	Name of Manager, and No. and Class of his Certificate, Authorization or Permit.	Manager and No. and Class of his Cortificate.	Managing Agent.	establishment of Special Rules.	Below ground.	Above ground,	Remarks.
			BengalRani	ganj Coalfield (No.	2 Inspection	Circle)—cantd.				
64	J. N. Coal Co. (Prasad Raghu- nundun and Brothers). (See column No. 7.)	Furra Dhemo .	Rurra Dhemo			Ramesur Flour Mills, 33, Hugul Kuria Gulli, Cal- cutta.		· ••• 		
65	Kalyaneswari Coal Co	Каразага	Kapasara Mugma, E. I. R	Jyotirmoy Konar .				'		
66	Laik, M. L. 7, Swallow Lane, Calcutta.	Hatnol	Hatnol	Baidya Nath Acharjia, 2nd class service, No. 24.				9	19	
67	Lalla, Luchman Prosad Chirkunda P. O.	Kalimati	Kalimati, Barakar or Mugma, E. I. R.	Luchman Prosad Lalla, Permit, No. 133.		*** ***		30	5	
38		Lutchipur .	Lutchipur, Sitarampur, E. I. R.	G. O. Renks, 1st class service, No. 53.		Bird & Co., 101-1, Clive		91	1.26	E. C.Agabeg, General Manager.
39	Geo cordina No. 7.)	Panchgatchia .	Panchgatchia, Sitarampur, E. I. R.	E. L. Barnett, 1st class service, No. 99.	,,,,	Street, Calcutia, or Post Box No. 46.	•	340	410	J Manuager.
70	MacNeill and Co	Bejdih (4 mines.)	Bejdib ' .	F. Brimlow Ist class competency, No. 100, in lieu of English certificate. Authorization, No. 201, to act as manager of more than one mine.	A •		,			W. Miller, Agent.
1	Manbhom (New) Coal Co., Ld. (See column No. 7.)	Dhundabad .	Dhundabad, Sitarampur, E. I. R.	W. L. Amis, 2nd class service, No. 45.		Octavius Steel & Co., 14, Old Court House Street, Calcutta, or		263	99	
2	Martin, Thomas Nirshachati P. O.	Badjns	Badjna	W. O. Whiffen, 2nd class service, No. 114.		Post Box No. 55.		8	25	
8	Misra, Mangobinda and Roy, Rama Nath. Samdi P. O. Vid Sitarampur.	Pahargora .	Pahargora	Mangobinda Misra Permit, No. 125.		******				
4	Misra, Shama Charan Samdi P. O. Fid Sttarampur.	Mahanpur (3 mines.)	Mahanpur	Shama Charan Misra, Permit, No. 103. Authorization, No. 179, to act as mana- ger of more than one mine.						

75	Mugma Coal Association (H. M. Banerji), Barakar P. O.	Mugma	Mugma, Mugma, E. I. B.	Jugal Kishore Mukherji, Permit, No. 135.				80	25	
76	Mukherji, Baman Dass Dishargarh P. O.	Chota Dhe.ne	Chota Dhemo, Sitarampus, E. I. R.	Hari Pado Mukherji, Ist class service, No. 55.		····	i	162	79	
77	Mukherji, Tinkari, 9/1, Siccar's Lane, Calcutta.	Dhadkadi	Dhadkadi	Hrishikesh Chatterji . Permit, No. 84.		J. L. Benerji & Co., 14, Clive Street, Calcutta.			•••	
78	Mukherji, Umesh Chandra Asausol P. O.	Borachak .	Borachak, Borachak, E. I. R.	Raj Ballav Mukherji, 2nd class service,		·····		. 88	43	
79	Nandi, Maharaja Manindra Chandra.	Begunia .	Begunis, Barakar, E. I. R.	No. 34.		•	***			
80	Cossimbazar P. O., Murshidabad.	Beguui: Khas .	Begunia, Barakar, E. I. R.		, <u>,,,</u>			153	48	Monmotho Nath Roy General Manager.
81	Nodiba Coal Co., Ld Dishargarh P. Os	Nodiha .	Nodiha	A. F. Pennefather, 2nd class service, No. 15, also 1st class com- petency, No. 1.		McNeill & Co., 1/2, Clive Ghat Street, Calcutta, or Post Box No. 15.		69	30	W. Miller, Superintendent.
82	Parekh, Kasu Lal	Rajpura .	Rajpura, Mugma or Barakar, E. I. R.	Kasu Lall Parekh .		,,,				
83	Parekh, Keshob Lall	Sindri	Sindri	Dakhineswar Ghosal, Permit, No. 136.			 ,	48	18	
84	Patel, Hati Bhai	Rajpura .	Rajpura, Mugma or Buraka, E. I. R.	Hati Bhai Patel . Permit, No. 66.	··•					95
. 85	Patel, Lallu Bhai	Rajpura .	Rajpura, Mugma or Barkar, E. I. R.	Lallu Bhai Patel Permit, No. 65.	••••	····		8	12	
86	Patlabari Coal Syndicate (Mulji Jetha & Chuni Lal).	Patlubari .	Patlabari	Mahendra Narayan Raya.	·			285	11	•
87	Roy, Bonowavi Lal	Kalimati .	Kalimati, Barakar or Mugma, E. I. R.	Bonowari Lal Roy, Permit, No 108.		·····		20	6	
. 88	Rug, Jugel Kishore Asansol P. O.	Palashdiba .	Palashdina, Asansol, E. I. R.	D. W. C. Smith, 2nd class service, No. 146.			<i></i>	97	*40	•
89	Roy, Rohini Kumar	Kalimati	Kalimati, Barakar or Mugma, E. I. R.	Rohini Kumar Roy, 2nd class service, No. 157.				7	16	
90	Royal Bengal Coal Co. (Nitambini Dassi) Barakar, E. I. R.	Kusumkanali .	Kapasara, Mugma, E. I. R.	Dukha Haran Mukherji, 2nd class service, No. 21.	144			100	50	
91	Saltore Coal Co., Ld (See columu No. 7.)	Saltore (3 mines.)	Saltore	Geo. Dixon, 1st class competency, No. 46, in lieu of English certificate. Authorization, No. 116, to act as manager of more than one mine.		Bird & Co., 101-1, Clive Street, Calcutta, or Post Box No. 46.	•	33	253	

APPENDIX V-cont d.

namber.	Name of Owner or Company arranged in alphabetical order, and	Name of Mine and number		Name of Manager, and No.	Name of Assistant			Prasons	BMPLOYED	·
Serial 1	n alphabetical order, and postal address.	of separate Mines as defined by Rule 27.	Situation of Mine.	Name of Manager, and No. and Class of his Certificate, Authorization or Permit.	Manager and No. and Class of his Certificate.	Name and address of Managing Agent.	Date of establishment of Special Rules.	Below ground.	Above Ground.	Remares.
			Bengal—Raniganj (Coalfield (No. 2 In:	spection Circ	cle) -concld.			-	
92	Seal, Aghore Nath Nirshachati P. O.	Sangamahal .	Sangamahal, Mugma, E. I. R.) ···			100	17	
93)	Bamundiha .	Bamundiha, Sitarampur, E. I. R.)) 			'	,
94	Shampur Coal Co., Ld. (See column No. 7.)	Shampur	Shampur, Mugma, E. I. R.	A. W. Wood, 1st class service, No. 117. Authorization, No. 168, to act as manager of more		George Henderson & Co., 100, Clive Street, Calcutta, or Post Box No. 237.		360	352	Figures included in that of Sundarchak.
95	_	Sundarchak .	Sundarchak, Sitarampur, E. I. R.	than one mine.		زا		88	75	Figures for Bamundiha included.
96	Shungamahal Collieries, Ld (See column No. 7.)	Sangamahat .	Sangamahal, Mugma, E. I. R.	G. D. Scott, 1st class competency, No. 2.		Colonial Trading Co. of Trieste, Ld., 134, Canning Street, Calcutta, or Post	,			96
97	Sircar & Sons, N. C. 5, Clive Ghat Street, Calcutta, or Post Box No. 285.	Kbudka	Khoodka	Sachindranath Bose, 2nd class service, No. 100.		Box No. 132.		44	12	6
98	Sircar, Bidhu Bhusun Samdi P. O.	Binadikatta .	Binadikatta, Salanpur, E. I. R.	Bidhu Bhusan Sircar, Permit, No. 109	•••			11	28	
99	Sitarampur Coal Co., Ld. (See column No. 7.)	Narsamuda	Narsamuda, Asansol or Borachak, E. I. B.	W. V. Hannaford, 1st class service, No. 22.		Lyall, Marshall & Co., 25, Mangoe Lane, Calcutta, or Post Box No. 6.		850	290	
100	Sudihi Coal Co., Ld. (See column No. 7.)	Raghunathbatty .	Ragbunathbatty, Sitarampur, E. I. R.	L. A. Jacobe, 1st class competency, No. 37, in lieu of English certi- ficate. Authorization No. 134, to act as		McLeod & Co., 31, Dal- housie Square, South, Calcutta, or Post Box No. 78.			·	Figures included in that of Sudihi.
101	J	Sudihi	Sudihi. Sitarampur, E. I. R.	manager of more than one mine.			 	341	165	Figures include that for Raghunathbatty.
102	Suitable Coal Co. (Chhagan Loll Nagar) Barakar P. O.	Egarcoor	Egarcoor, Mugma or Barakar, E. I. R.	Mugat Ram Nagar, Permit, No. 38. Authorization, No. 56, to act as manager of more than one mine.				22	8	

		'	Bengal - Ranigar	ij Coalfield (No. 3	inspection C	ircle).				5,500,53
1	Adjai Coal Co., Ld. , (See column No. 7)	Nandi (2 mines).	Naudi, Jamuria or Raniganj, E. I. R.	Robert Mitchell, 1st class service, No. 2. Authorization, No. 131, to act as manager of more than one mine.		Andrew Yule & Co., 7, Clive Row, Calcutta, or Post Box No. 150.		460	. 276	
2	Apcar & Co. 19, Radba Bazar, Culcutta.	Charanpur	Domohani, Baraboni or Asansol, E. I. R.	E. M. Patterson, 1st class service, No. 4.		See column No. 2		224	247	F. J. Agabeg, General Manager.
	Bagchi, Purus Chandra Kalipahari P. O.	Mosila	Mosila, Kalipahari, E. I. R			Tansook Boy, Ram Kumar, 12, Mullick Street, Bara Bazar, Calcutta.		•••	3	
4	Baliram Coal Co.	Ghusik	Ghusik, Kalipahari, E. I. R.	Ananta Lall Ghosh, 1st class service, No. 115. Authorization, No. 38, to act as manager of		******		175	. 80	
5	Kalipahari P. O.	Srikistopur . , or Mosila.	Kalipahari, Kalipahari, E. I. R.	more than one mine.				70	45	
6	Bamundiha Coal Concern Kalipahari P. O.	Chattapather .	Chattapathar, Kalipahari, E. I. R.	Lucken Chandra Mittre, 2nd class service, No. 31.	Radha Bullov Chuckerbutty.	Dwarka Nath Khettry, 89, Cross Street. Calcutta.	•••	68	87	-
. 7	Banerji Collieries (Iudra Nath Banerji), Chowkidanga P. O.	Jotejanski	Jotejanski, Toposi or Raniganj, E. I. R.	Pramatha Nath Hazra, 2nd class service, No. 110. Authoriza- tion, No. 166, to act as manager of more than one mine.	Ram Pada Hazra.			91	44	
9	Banerji, Hariher	Ghusik (West) .	Ghusik, Kalipahari, E. I. R	Surendra Nath Mukherji, 2nd class service, No. 161.	Kani Lall Adi- kheri,			105	25	
10	Banerji, Kashi Bilash	Jamunakauali .	Jamunakanali, Raniganj, E. I. R.	Protap Chandra Topa- dar, 2nd class service, No. 105.	144			***		
11	Banerji, Raghu Nath and others . Mejia P. O., vid Raniganj.	Kalikapur	Kalikapur, Raniganj, E. I. R.	Lal Bihari Kumbhakar, Permit, No. 80.		198***		37	8	
12	Fankura Coal Co. (H. H. Banerji and R. C. Mukherji), Kalipahari P. O.	Dobalia	Kalipahari, Kalipahari, E.I.R.	Surendra Nath Mukherji, 2nd class service, No. 161.	***			21	12	Haribar Banerji, General Manager.
18	Baraboni Coal Association Charanpur P. O.	Baraboni , ,	Paraboni, Asansolor Baraboni, E. I. R.	James Brown, 1st class competency, No. 102, in lieu of English certificate.		N. C. Sirear & Sons, 5 Clive Ghat Street, Calcutta, or Post Box No. 285.		61	25	Formerly owned by Burman & Co.

APPENDIX V-contd.

		<u> </u>								
namber.	Name of Owner of Company arranged	Name of Mine		Name of Managor and No.	Name of Assistant	Name and address	Date of	PERSONS.	BMPLOYED.	
Serial nu	Name of Owner or Company arranged in alphabetical order, and postal address.	of separate Mines as defined by Bule 27.	Situation of Mine.	and Class of his Cerlificate, Authorization or Permit.	Manager and No. and Class of his Certificate.	of Managing Agent.	establishment of Special Rules.	Below ground.	Above	Remarks.
			Bengal—Raniga	nj Coalfield (No. 3	Inspection Ci	rcle)—contd.				
-14		Baraboni .	Baraboni, Asansol or Baraboni, E. I. R.	James Brown, 1st class compstency. No. 102, in lieu of English certificats.		N. C. Sircar & Sons, 5,		118	61	
15	Baraboni Coal Concern, Ld (See column No. 7).	Haripur	Haripur, Toposi or Raniganj, E. I. R.	Sorut Chandra Dutt, 2ud class service, No. 88.		Clive Ghat Street, Calcutta or Post Box No. 285.		98	13	W. Burt, Superintend- ing Engineer.
16	} {	Nimcha	Nimcha, Raniganj, B. I. R.	Suresh Chandra Sarkar, 2nd class service, No. 66.		 		91	104	. ال
17	Baraboni (New) Coal Co. (Kunja Behari Pal Chowdhuri and others), Charanpur P. O.	Baraboni (New)	Baraboni, Asmsol or Baraboni, E. I. R.	Debendra Nath Bhatta- charji.		,				ď
18	Baraboni (South) Coal Co. (Kunja Behari Pal Chowdhuri), Charanpur P. O.	Baraboni (South) .	Baraboni, Asansol or Baraboni, E. I. R.	F. C. Larduer, 2nd classervice, No. 90. Authorization, No. 110, to act as manager of more than one mine.				49	21	
19	Baraboni (West) Coal Co	Napara (South) .	Baraboni, Asansol or Baraboni, E. I. R.							
20	Barakar Coal Co., Ld.	Jamgram	Jamgram, Gaurangdi, E. I. R.			Bird & Co., 101/1, Clive		815	850	E. C. Agabeg, Super-
21	(See columu No. 7).	Kantapahari .	Kantapahari, Gaurangdi, E. I. R.	E. G. Nash, 2nd class competency, No. 23.		Street, Calcutta, or Post Box No. 46.		322	126	intendent.
22	Basanti Oakdene Coal Co. (See column No. 7).	Basantipur .	Mamudpur, Toposi or Raniganj, E. I. R.	G. Stacey, 2nd class service, No. 93. Authorization, No. 9, to act as temporary manager of more than one mine.		Stanley Oakes & Co., 5, Mangoe Lane, Calcutta.		78	49	
28	IJ	Mouzra	زا	1	i	l	1	ł	r	

24		Baraboni	Baraboni, Asansol or Baraboni, E. I. R.	A. Russell, 1st class competency, No. 54, in lieu of English certificate. Authorization, No. 67, to act as manager of more than one mine.				890	382	Contains figures for Jairamdanga as well.
25	Beerbhum (New) Coal Co., Ld. (See column No. 7).	Chinchuria (7 mines).	Chinchuria, Baraboni or Asausol, E. I. R.	Charles Lea, 1st class competency, No. 58, in lieu of English certificate. Authorization, No. 118, to act as manager of more than one mine.		Balmer, Lawrie & Co. 108, Clive Street, Calcutta, or Post Box No. 4.		142	116	S. Hestop, General Manager.
26	j	Jairamdanga . (2 mines).	Jainmdanga, Asansol or Bara- boni, E. I. R.	A. Russell, 1st class competency, No. 54, in lieu of English certificate. Authorization, No. 67, to act as manager of more than one mine.	<i></i>	j -				Figures included in that of Baraboni,
27		Banksimulla (2 mines).	Bauksimulla, Asausol, E. I. R.	T. Chrystle, 1st class competency, No. 25, in lieu of English certificate. Authori- sation, No. 138, to act as manager of more than one mine.	H. R. Fox, 1st class service, No. 92.			61	175	G. F. Scott, Chief 99
28	Bengal Coal Co., Ld.,	Damudapur .	Damudapur, Raniganj er Ikra, E. I. R.	F. T. Marley, 1st class competency, No. 40, in lieu of English certi- ficate.				429	298	Mining Engineer.
29	j	Baniganj	Egara, Raniganj, E. I. R.	B. L. Brodhurst, 1st class competency, No. 38, in lieu of English certificate.		······		305	190)
80	Bhagirathi Coal Co.,	Bhutdoba	Kalipahari, Kalipahari, E. I. R.	Kshetra Nath Dey Permit, No. 143.	Pran Gobinda Sirkar.			75	47	
81	Bhattacharji, Shasi Bhusan Chora P. O.	Haripur	Haripur, Toposi or Raniganj, E. I. B.	Nil Madhab Chakra- butti, 2nd class service, No. 104.				65	. 9	
82	Bhuskajuri Coal Co., Ld. (See column No. 7).	Bhuskajuri . (2 mines)	Bhuskajuri, Asansol or Baraboni, E. I. R.	H. C. Read, 1st class service, No. 121. Authorization, No 129, to act as manager of more than one mine.	Gregory Sam	Bird & Co., 101-1, Clive Street, Calcutta, or Post Box No. 46.		246	192	E. C. Agabeg, General Manager.
38	Bilbera Coal Co., Ld (See column No. 7).	Babisole (3 mines).	Babisole	T. Samson, 1st class competency, No. 94, in lieu of English certificate. Authorisation, No. 167, to act as manager of more than one mine.		N. C. Sirear & Sons, 5, Clive Ghat Street, Calcutta, or Post Box No. 285.				•

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APPENDIX V-contd.

- i	1	Name of Mine and number of separato Mines as defined by Rule 27.	Situation of Mine.	Name of Manager and No. and Class of his Certificate, Authorization or Permit.	Name of Assistant Manager and No. and Class of bis Certificate.	Name and address of Managing Agent.	Date of establishment of Special Bules.	PERSONS EMPLOYED		
Serial number	Name of Owner or Company arranged in alphabetical order, and postal address.							Below ground,	Above ground,	REMARES.
			Bengal-Raniga	inj Coalfield (No. 3	Inspection C	ircle) contd.				
34	British India Coal Co., Ld (See column No. 7).	Napara (3 mines)	Napara, Baraboni or Asansol, E. I. R.	L. R. Somerville, 1st class competency, No. 75, in lieu of English	***	Williamson, Magor & Co., 4, Mangoe Lane, Cal- cutta, or Post Box No.		77	100	Formerly owned by P. N. Bose.
85	Burdwan Coal Co	Mosila	Mosila, Kalipahari, E. I. R.	certificate. Promoda Chandra Mu- kherji. Permit, No. 40.		177	***	89	22	
36	Burdwan (New) Coal Co Kalipahari P. O.	Mosila	Mosila, Kalipahari, E. I. R.	Purna Chandra Bagchi, 2nd class service, No.		·	***	17	10	•
37	Burn & Co. The Potteries, Raniganj P. O.	Pottery (3 mines).	Raniganj, Raniganj, E. I. R.	51. Sharoda Prasad Ghosal, 2nd class service, No. 115. Authori- zation, No. 173, to act as manager of	·.,	Burn & Co., 7, Hustings Street, Calcutta, or Post Box No. 191.		87	61	
38	Chatterji, Pran Kishen Chowkidanga P. O.	Jotejanaki (2 mines)	Jotejenaki, Toposi or Raniganj, E. I. R.	more than one mine. Karali Prasad Chatterji				72	22	
39	Chelode Coal Co (See column No. 7).	Chelode	Kuordib, Kalipabari, E. I. R.	W. Barnard, 2nd class service, No. 69, and 1st class competency, No. 26.		Sircar, Barnard & Co., 2, New China Barar Street, Calcutta, or Post Box No. 286.		,	11.	
40	Cooverji Bhoja	Mosila	Mosila, Kalipahari, E. I. R.	Khimji Dhunji, Permit, No. 7.			•••	26	10	
41		Damra (Old) . (9 mines).	Damra, Kalipahari, E. I. R.	Sasi Bhusan Patra, 2nd class service, No. 33. Authorization, No.		M. L. Laik and Bauerji, 7, Swallow Lane, Calcutta.		90	18	
42	Damra Coal Co., Ld (See column No. 7).	Kanchka (2 mines).	Ghusik, Kalipahari, E. I. R.)	164, to act as manager of more than one mine.						
43	}	Napara .	Napara, Baraboni or Asansol, E. I. R.	Gopinath Chatterji, 2nd class service, No. 12.		101 -00	•••	117	38	1.
44	Daw, Peary Lal 2, Dhurmahatta Street, Calcutta.	Lakshmiganj .	Dobrana, Toposi or Raniganj, R. I. R.	Anuada Prosad Roy.		*****		46	37	
45	Dhadka Coal Co. (Seth Gopal Dass Trikumji), 25, Pollock Street, Calcutta.	Dhadka	Dhadka, Asansof, E. I. R.	44635				62	54	

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	46	Dutt, Hom Chaudra Sitarampur P. O.	Kajra . ,	Kajra, Raniganj, E. I. R.	Hem Chandra Dutt, 1st class service, No. 24. Authorization, No. 80, to act as manager of more than one mine.	***			11	32	•
	47	Eastern Coal Co., Ld. (See column No. 7.)	Bankola	Bankola, Ukhra or Raniganj, E. I. R.	A. H. Ward, 1st class competency, No. 65, in lieu of English certificate.	•••	Mackinnon, Mackenzie & Co., 16, Strand Road,		296	136	•
	48) (See conduit No. 1.)	Jobs or Jotemotuk	Joba, Raniganj, E. I. R.	W. Augier, 1st class service, No. 66.	<i></i>	Calcutta, or Post Box No. 163.		227	52	
•	40	Equitable Coal Co., Ld (See column No. 7.)	Jamuria	Jamuria, Jamuria, Asansol or Raniganj, E. I. R.	A. Murdoch, 1st class competency, No. 63, in lieu of English certificate.	•••	MacNeill, & Co., 2, Clive Ghat Street, Calcutta, or Post Box No. 15.		759	182	W. Miller, Superintendent.
	50	J (Satpukuria	Satpukuria, Asansol, E. I. R	J. DeSouza, 2nd class competency, No. 2.	144	or Post Box No. 15.		86	11	j
	61	Faridpur Coal Co. (Soshi Bhusau Mukherji), 6, Fakir Ch. Chuckerbutty's Lane, Beadon Square P. O., Calcutta.	Faridpur	Charanpur, Baraboni or Asansol, E. I. R.	Kanty Ch. Bhatta- charji, 2nd class service, No. 111.	Surendra Nath, Mukherji.	Tansookroy Ramnath, 12, Mullick Street, Calcutta.		80	26	
	52		Baraboni , ,	Baraboni, Baraboni or Asansol, E. I. R.	M. A. Creet. Authorization, No. 16, to manage the mine temporarily.	•			190	99	101
	_ 58	Ghusik and Muslia Collieries, Ld. (Creet & Co., S. T.), Kalipahari P. O.	Ghusik (3 mines).	Ghusik, Kalipahari, E. I. R.	A. T. Creet, 1st class service. No. 36. Authorization, No. 63, to act as manager of more than one mine.	P. J. Peters and L. A. Creet.	Martin & Co., 6 & 7, Clivo Street, Calcutta, or Post Box No. 23.		295	200	S. T. Creet, General Manager.
	54) 	Muslia		E. D. Onraiet, 1st class service, No. 20.	***],				J
	55	Ghusik Coal Co. (Hem Ch. Ghosh). Kalipahari P. O.	Ghusik	Ghusik, Kalipahari, E. I. R.	G. W. Ogilvie, Permit, No. 157.				27	15	
	56	G. M. Agreeable Coal Co Kalipahari P. O.	Kessabganj	Kessabganj, Kalipahari, E. I. R.	Gosto Behary Dutt, Permit, No. 32.				16	7	•
	57	Hariladih Coal Co., Ld. (See column No. 7).	Akhalpur (6 mines).	Akhalpur, Jamuria, or Raniganj, E. I. R.	R. Heron, 1st class competency, No. 69, in lieu of English certi- ficate. Authorizations, Nos. 72 and 107, to act		MacNeill & Co., 2, Clive Ghat Street, Calcutta, or Post Box No. 15.		195	100	W. Miller, Superintendent.
					as manager of more than one mine.		1 1				

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List of Coal Mines worked under the Indian Mines Act, 1901, in British India-contd.

ž		Name of Mine		Name of Manager and No.	Name of			PERSONS	EMPLOYED	
Berial number	Name of Owner or Company arranged in alphabetical order, and postal address.	and number of separate Mine; as defined by Rule 27.	Situation of Mine.	Name of Manager and No. and Class of his Certificate, Authorization or Permit	Assistant Manager and No. and Class of his Certificate,	Nome and address of Managing Agent.	Date of establishment of Special Rules.	Relow ground,	Above ground,	REMARKS.
			.Bengal - Raniga	nj Coalfield (No. 3 l						
58	Imperial Coal Co., Ld (See column No. 7.)	Madhubpur (2 mines).	Madhubpur	T. Samson, 1st class competency. No. 9st, in lieu of English certificate. Authori- sation, No. 167, to act as manager of more than one mine.		N. C. Sircar & Sons, 5, Clive Ghat Street, Calcutta, or Post Box No. 285.	***	•••	30	
59	Jagannath Coal Co (Jagannath Marwari), Raniganj P. O.	Ragunathchak (2 mines).	Raghunathchak, Rauiganj, E. I. R.	Chakar Chandra Pal, 2nd class service, No. 28. Authoriza- tion, No. 118, to act as manager of more than one mins.				45	. 27	
60	Katras-Jharia Coal Co., Ld. (See column No. 7.)	Sibpur (4 mines).	Sibpur, Raniganj or Asansol, E. I. R.	P. S. Keelan, 1st class service, No 34. Autho- rization, No. 115, to act as manager of more than one mine.	and P. Sydney.	Andrew Yule & Co., 7, Clive Row, Calcutta, or Post Box No. 150.	•••	521	132	100
61	Kaviraj, Ram Lall	Sultanpur	Sultanpur, Churulia, E. I. R .	Ram Lal Kaviraj .				19	6	
62	Kenda (Central) Coal Co (J. A. Millar), Chowkidanga P. O.	Kenda	Kenda, Toposi or Raniganj, E. I. R.	J. A. Millar, 1st class service, No. 14.	Hosain Bux .		, .	21	26	
68	Kends (New) Coal Co., Ld Chora P O.	Kenda (8 mines).	Kenda, Toposi or Raniganj, E. I. R.	Kali Das Chatterji, 2nd class service, No. 65. Authorization, No. 122, to act as manager of more than one mine.			•••	25	112	S. Heslop, Superintendent.
64	Kenda (South) Coal Co (J. C. Martin). Chowkidangs P. O.	Banskuri	Topsi or Ranigauj, E. I. R.	J. C. Martin, 2nd class service, No. 64.				23	60	
65	Kuordih Coal Co., Ld (See column No. 7.)	Kuordilı (4 mines).	Kuordih, Kalipahari, E. I. R.	W. Barnard, 2nd class service, No. 69, and 1st class competency, No. 26.	.,	Sircar, Barnard & Co., 2, New China Bazar Street, Calcutta, or Post Box No. 286.		141	36	R. Barnard, Superintending Engineer.
66	Kuordih (East) Coal Co., Ld. (See column No. 7.)	Kuordih (East) .	Kuordih, Kalipahari, E. I. R.	J = 10, 20,						

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67	Laik, Mukundo Lall 7, Swallow Lane, Calcutta.	Haripur	Haripur, Toposi or Raniganj, E. I. B.	Jogendra Nath Chatterji, 2nd class service, No. 50.				68	20	-
68) (Banskuri . '.	Banskuri, Raniganj, E. I. R.	; 			*** .			
69	Malia, D. & R	Jamehari	Jamehari, Raniganj, E. I. R		Rishi Kesh Mukherji.		 .	104	129	
70	}	Searsol	Searsol, Raniganj, E. I. R	Sita Nath Dutta, . 1st class service, No. 93.	•••	*****	***	193	73	
71	Marwari, Fulchand	Kenda	Toposi or Raniganj, E. I. R	·············						
72	Marweri, Ganapat Ram Kalipahari P. O.	Kessabganj .	Kessabganj, Kalipahari, E. I. R.	Shew Karan Marwari, 2nd class service, No. 6.			. 	90	43	
78	Marwari, Jaganuath	Bunbehal .	Bunbehal, Ukhra or Raniganj, E. I. B.	Umaprosad Mukherji, 2nd class service,		791.111		27	14	
74	Ranigauj P. O.	Dobrana .	Dobrana, Toposi or Baniganj, E. I. R.	No. 27.	•••	******		.		14
75	Marwari, Ram Bilas Kalipahari P. O.	Kessabganj .	Kessabganj, Kalipahari, E. I. R.	Ram Bilas Marwari, 2nd class service, No. 55.	-	 }	***	22	19	103
76) [Jubilee .	Kalipahari, Kalipahari, E. I. R.	2nd class service,	Tanti.			62	11	
77		Nichinta	Nichinta, Kalipahari, E. I. R.	No.70 Authoriza- tion, No. 142, to act as manager of more	Muhabir Pro- sad Dass.	Meyer Brothers, 28, Pollock Street, Calcutta.	*	52	10	
78	Meyer Coal Co	Nuniapool	Kalipahari, Kalipahari, E.I. R.	than one mine.		Follock Street, Calcutta.				
79	į į	Nimcha	Nimcha, Raniganj, E. I. R		Girindra Nath Sarcar.	} 		34	8	
80		Naudi .	Naudi, Jamuria or Raniganj, E. I. R.	C. Tweedie	•••	Andrew Yule and Co., 7, Clive Row, Calcutta, or Post Box No. 150.				•
81	Minto Coal Co., Ld (See column No. 7).	Shekpur .	Shekpur, Raniganj, E. I. R.	tion, No. 140, to act as manager of more			•••	80	29	
82	} 	Sibpur	Sibpur, Jamuria or Raniganj, E. I. R.	than one mine.		·······		ز		
83	Mukherji, Baman Dass Kalipahari P. O.	Ghusik (New)	Ghusik, Kalipahari, E. I. R.	••••		******		32	22	
84	Mukherji, Hers I.al 15-4, Wellington Street, Calcutta.	Kenda	Kenda, Toposi or Raniganj, E.I.R.	Hrishi Kesh Ghosh .		******			7	

List of Coal Mines worked under the Indian Mines Act, 1901, in British India—contd.

aumber.	Name of Owner Course	Name of Mine,		Name of Manager, and No.	Name of		Date of	Разворя	MPLOYED	
Serial and	Name of Owner or Company arranged in a phabetical order, and postal address.	and number of separate Mines as defined by Rule 27.	Situation of Mine,	and Class of his Certificate, Authorization or Permit.	Assistant Manager, and No. and Class of bis Certificate.	Name and address of Managing Agest.	establishment of Special Rules.	Bolow ground.	Above ground.	Bemares,
			Bengal Ranig	anj Coalfield (No. 3	Inspection C	Circle) -contd.				
85	Mukherji, Romesh Chandra Kalipahari P. O.	Ghusik	Ghueik, Kalipahari, E. I. R.	Badha Krishna Chat- terji, 2nd class service, No. 113.				85	21	·
86	Mukherji, Soshi Bhusan 6, Pakir Chand Chuckerbutty's Lane, Beadon Square P. O., Calcutta.	Nandi (New)	Nandi, Jamuria or Raniganj, E. I. R.	Kanti Chandra Bhatta- charji, 2nd class service, No. 111.		Tansook Roy Ramnath, 12, Mullick Street, Calcutta.		 		
87	Mundulpur Coal Co., Ld (See column No. 7.)	Mundulpur .	Mundulpur	A. Gillespie, 1st class competency, No. 98, in lieu of English certificate.		MacNeill & Co., 1-2, Clive Ghat Street, Calcutta, or Post Box No. 15.				W. Miller, Agent.
88	Nandi Coal Association (Siba Prossd and others) Nandi P. O.	Nandi	Nandi, Jamuria or Raniganj, E. I. R.	Suchand Ghosh, 2nd class service, No 44.	Pasupati Chatterji & Monindro Kinkor Nyak			113	43	104
89	Naudi, Maharaja Manindra Chandra, Cossimbazar P. O., Murshidabad,	Napara	Napara, Baraboni or Asansol, E. I. B.	Kali Prasanna Punja, 2nd class service, No. 102.	Minkor Nyas.			110	82	Monmotho Nath Roy, General Minnger.
90		Vanora Khas . (9 mines).	Vanors, Baraboni or Asansol E. I. B.	Rajoni Prokash Chakra- barty, 1st class service, No. 112. Authorization, No. 81, to act as manager of more than one mine.				104	88	J
91	Niga Valley Coal Co. (Soshi Bhuson Mukherji.) 6, Fekir Chand Chuckerbutty's Lane, Beadon Square P. O., Calcutta.	Niga Valley . (5 mines).	Kalipahari, Kalipahari, E. I. R.	Jasoda Dulal Ghosh, 2nd class service, No. 108. Authoriza- tion, No. 82, to act as manager of more than one mine.	Beni Madhab Mukherji.	Tansook Rcy Ramnath, 12, Mullick Street, Calcutta.		35	28	
92	Nodia Coal Co. (Abhoy Kumar Rai Chowdhuri) Ukhra P. O.	Nodia	Nodia, Ukhra or Raniganj, E. I. R.	2nd class service, No. 78. W. Lawrie, 1st class			***	14		
98 94	Ondal Coal Co., Ld.	Bowlah .	Bowlah	competency, No. 78, in lieu of English cer- tificate. Authoriza- tion, No. 123, to act as		F. W. Heilgers & Co.,	•••	251	139	J. Macintosh, General
94	See Column No. 7.)	Onora .	E. I. R.	tion, No. 123, to act as manager of more than one mine.		Calcutta, or Post Box No. 185.		-		wensker.

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95	γ	Suppur .	Sunpur, Toposi or Raniganj. E. I. R.	C. C. Augier, 1st class service, No. 46.		P	***	27	60	
96	l i	Banali	Banali	Lal Chand Mukherji, 1st class service, No.	l		•••	83	34	R. Barnard, Superin-
97	Phularitand Coal Co., Ld. (See column No. 7.)	Damra (New) .	Damra, Kalipahari, E. I. B	Kanderpa Mohan Mozum- dar, 2nd class compe- tency, No. 21.	Nani Lal Goswami.	N. C. Sircar & Sons, 5, Clive Ghat Street, Calcutta, or Post Box No. 285.		51	27	tending Engineer.
98	Poniati Coal Concern (U. C. Roy & CoA. C. Ghosh). Charanpur P. O.	Faridpur	Domohani, Asansol, E. I. R	Umesh Chandra Rai, 2nd class service, No. 54.	Jagad Bhusan Rai Chou- dhuri.	Laik & Banerji, 7, Swallow Lane, Calcutta.		104	61	Formerly owned by Apcar & Co.
99	Baniganj Coal Association, Ld (See column No. 7).	Toposi (2 mines)	Toposi, Toposi or Raniganj, E. I. R.	Thos. Thomson, 1st class service, No. 57. Authorization, No. 156, to act as manager of more than one mine.		Kilburn & Co., 4, Fairlie Place, Calcutta, or Post Box No. 61.		119	96	· •
100	Reliance Coal Co., Ld. (See column No. 7).	Charanpur (6 mines.)	Domohani, Asansol, E. I. R	P. Scott, 1st class service, No. 73. Authorization, No. 48, to act as manager of more than one mine.	2nd class competency, Nos. 6 and 27	Box No. 46.		355	165	
101	Sadhu, Ram Chandra	Palasthal	Jamtara, Jamtara, E. I. R.	Nritya Gopal Sadhu .	Tin Kari Rai.			12	6	
102	Sahana & Co. (R. K. Sahana) Chowkidanga P. O.	Sonachora	Sonachora, Toposi or Rani- ganj, E. J. R.	Nishanath Rai Chow- dhuri, Permit, No. 83.		147 144		85	36	
103	Samla and Kendra Syndicate	Kendra .	Kendra	C. C. Augier, 1st el ass service, No. 46. Autho- rization, No. 197, to act as manager of	 ′	Martin & Co., 6 & 7, Clive Street, Calcutta, or Post Box No. 23.			***	
104		Samla .	Samla	more than one mine.	ŀ	'				
105	Sathpukuria and Asansol Collieries, Ld. (See column 7.)	Aradanga or Ban- bistopur.	Banbistopur, Asansol, E. I. R.	H. T. C., Martin, 1st class service, No. 5.	.	Martin & Co., 6 and 7, Clive Street, Calcutta, or Post Box No. 23.		75	12	
106	Sibpur Coal Co., Ld (See column No. 7.)	Pretoria	Sibpur, Jamuria, Asansol or Raniganj, E. I. R.	P. S. Keelan, 1st class service, No. 34. Authorization, No. 115, to act as manager of more than one mine.		Andrew Yule & Co., 7, Clive Row, Calcutta, or Post Box No. 150.		333	36	
107	Singaran Coal Syndicate, Ld. (See column No. 7.)	Jotejanaki (3 mines.)	Jotejanaki, Toposi, E. I. R	T. C. Piggford, 1st class competency, No. 67, in lieu of English certificate. Authorization, No. 125, to act as manager of more than one mine.		MacLeod & Co., 31, Dal- housie Square, Calcutta, or Post Box No. 78.	481	84	54	,
° 108	Singh & Co., K. D	Kalipahari	Kalipahari, Kalipahari, E. I. B.	Ram Din Lalla Permit, No. 147.				50	80	

APPENDIX V-contd.

List of Coal Mines worked under the Indian Mines Act, 1901, in British India—contd.

mber.	Name of Owner or Green	Name of Mine		Name of Manager and No.	Name of Assistant	Name and address		PERSONS I	MATOARD	
Serial number	Name of Owner or Company arranged in alphabetical order, and postal address.	and number of separate Mines as defined by Rule 27.	Situation of Mine.	and Class of his- Cortificate, Authorization or Permit,	Managor and No. and Class of Managing Agent.		Date of establishment of Epecial Rules.	Below ground.	Above ground.	Remarks.
			Bengal Raniga	nj Coalfield (No. 3	Inspection C	ircle)—concld.				
109	Singh, Naba Rong Kalipahari P. O.	Bhutdoba	Bhutdoba, Kalipahari, E. I. R.	Esan Ch. Sircar Permit, No. 146.	Bhovesh Chan- dra Ghosal,	•••		80	20	
110	Singh, Ram Narayan	Banbistopur .	Banbistopur, Asansol, E. I. R.	Baikunto Nath Chow- dhuri.		******		48	9	
111	Sircar, Banwari Lal Chowkidanga P. O.	Dobrana : .	Dobrana, Toposi or Raniganj, E. I. R.	Banwari Lall Sirear .			•••			
112	Sudamdih Coal Co., Ld. (See column No. 7).	Sarthakpur	Sarthakpur, Toposi or Ranigunj, E. I. R.	Dovendra Narsin Roy, 2nd class service, No. 48.		N.C. Sircar & Sons, 5, Clive Ghat Street, Calcutta, or Post Box No. 285.	···	42	57	<u> </u>
	Tareni Coal Co.							_		ě
113	(S. C. Bhatta.) Chora P. O.	Haripur	Haripur, Toposi or Raniganj, E. I R.	Nilmadab Chuckerbutty, 2nd class service, No. 104.			•••	65	9	
114	Toposi (Old) Coal Co	Purandip	Parandip, Toposi or Rani- gauj, E. I. R.	Fauindra Nath Ghosh, 2nd class service, No. 153.		****		79	36	
			Bengal—Gir	idih Coalfield (No.	2 Inspection	n Circles.				
1	J	Lakharia or Bayr	Lakharia, Giridib, E. I. R.	`	····	j		61	42	
	Bayra Coal Association . (Myers, E.) Giridih P. O.		}	E. Myers, 1st class service, No. 27. Authorization, No. 195, to act as manager of more						
2			Mohalichua, Giridih, E. I. R.	than one mine.		******		68	33	
3	, Y	` [Sikdardib, Giridib, E. I. R.				•••			
4	Bengal Coal Co., Ld. 5, Fairlie Place, Calcutta, or Post Box No. 117.	Kuldiha (4 mines).	Kuldiba, Giridib, E. I. R.	G. N. A. Pitt, 1st class competency, No. 77, in lieu of English certificate. Authorization, No. 149, to act as manager of more than one mine.				558	432	G. F. Scott, Chief Mining Engineer.

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į	5	Budheadib Coal Co. (Sundermall.) Gadi Shrirampur P.O., Giridib.	Budheadih (2 mines.)	Budheadib, Giridib, E. I. R.	Sarbananda Lall, 2nd class service, No. 84. Authorization, No. 133, to a c t a e manager of more than one mine.				123	23		
6	6	East Indian Railway Co., 105, Clive Street, Calcutta, or Post	Kurhurbari .	Kurhurbari, Giridîh, E. I. R.	Thos. Adamson, 1st class competency, No. 14, in lieu of English certificate.	class service.						
7	7	Box No. 225.	Serampur	Serampur, Giridib, E. I. R.	G. C. Lathbury, 1st glass competency, No. 13, in lieu of English certificate.	1st class com-		14th June 1905	3,678	2,471	T. H. Ward, Superintendent.	
ε	8	Tah & Co., Rakhal Das	Kabribad (3 mines.)	Kabribad, Giridib, E. I. R.	Sarat Chander Tah, 2nd class service, No. 128. Authori sation, No. 66, to act as manager of more than one mine.				54	23		107
				Bengal — Raj	mahai Coaifield (N	o. 3 Inspectio	on Circle).			•		7
. 1	1	De, Girish Chandra	Domanpur	Domanpur, Rampurhat, E. I. R.		1 . "				·		
1	2	j De, Girish Chandra	Sarsabad .	Sarsabad, Rampurhat, E. I. R.								
	8	De, Ramani Kanto	· -	Balki, Rampurhat, E. I. R.	Ramani Kanto De		·····		5		<i>y</i>	• •
•	4	J Rasikpur, Dumka P. O.	Ghatchora	Asanbani, Rampurhat, E. I. R.	ין	"			2			
1	5	De, Soshi Bhusan Rasikpur Dumka P. O.	Bargo	Bargo, Rampurhat, E. I. R.	Soshi Bhusan De .				16	***		
				Bengal—Dal	tonganj Coalfield (No. 1 Inspect	ion Circle).					
;	1	Bengal Coal Co., Ld	Rajhara (5 mines.)	Rajhara, Daltonganj, E. I. R.	class service, No. 71 Authorization, No.	1			364	284	G. F. Scott, Chief Mining Engineer.	
•	-1	Redford W. T.	1		170, to act as		•					

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APPENDIX V-contd.

List of Coal Mines worked under the Indian Mines Act, 1901, in British India—contd.

	Name of Owens on Company syrenged	Name of Mine		Name of Manager and No.	Name of	Name and address	Date of	Persons a	MATOLED	-
	Name of Owner or Company arranged in alphabetical order, and postal address.	of separate Mines as defined by Bule 27.	Oltuation of Mine.	Name of Manager and No. and Class of his Gertificate, Authorization or Fermit. No. and Class of his Certificate.		Mame and address of Managing Agent,	establishment of Special Bules.	Below ground.	Above ground.	REMARKS.
			Central	Provinces—(No. 3	Inspection C	Circle),				
1	Coverji Bhoja	Jattachhapper .	Jattachhapper, Chhindwara	Ananta Ram Hiralal, Permit, No. 123.	["				 	
2	Government of India Nagpar, C P.	Ballarpur	Ballarpur, Warora, G. I. P.	R. Wordsworth, 1st class competency, No. 22, in lieu of English certificate.	1st class com-	1		220	109	Chief Engineer, Central Provinces, Agent.
3	Great Indian Peninsula Railway . Bombay P. O.	Mohpani	Mobpani, Gadarwada, G. I. P.	class competency, No. 32, in lieu of Eng-	O. T. Edwards			553	426	
4	ή (Barkui	Barkui, Chhindwara, B.N.R.	lish certificate.]	7		85	51) ነ
5	Pench Valley Coal Co., Ld (See column No. 7).	Buteria	Buteria, Chhindwara, B. N. R.	R. Fenwick Jr., 1st class competency, No. 91, in lies of English certificate. Authori- zation, No. 153, to act as manager of more	lance, 2nd class com- petency, No. I, in lieu of	Shaw, Wallace & Co., 20, Strand Road, Cal- cutta. Post Box, No.		5	5	F. I. L. Ditmas, General Manager.
6][Chandametta .	Chandametta, Chhindwara, B. N. B.	than one mine.	English certificate.	11		295	70	J
			British	Baluchistan (No. 2	Inspection	Circle).				
1	Alibhoy Bros	Sor Range	Sor Range, Quetta, N. W. R.	Alibhoy	"	1		8	2	•
2	Asgharali & Co., Abdulla Loralai P. O.	Davispur	Thadri, Loralai	Jawandamuli			***	9	8	Bhogsingh Duki, Agent
8	Essaji & Sons	Sor Range	Sor Range, Quetta, N. W. R.			Ismail ,		6	1	
4	Ferozshah, Shiawakshaw	Digari	Digari, Quetta, N. W. R.						,,,	
5	Quetta P. O.	Sor Range	Sor Range, Quetta, N. W. R	Saleh						
В	Hossein Ali & Co	Sor Range	Sor Bange, Quetta, N. W. R.	Hossein Ali		····	•••			

7	Khan, Bahawal	Bhor .	Kalat dist	•••	Abdul Khan			8	•••	
8	Quetta F. O.	Digari	Digari, Quetta, N. W. R.		J		,,,	Б	1	
9	North-Western Bailway Lahore P. O.	Khost	Kart, Khost, N. W. R.	Arthur Mort, 1st class competency, No. 48, in lies of Eng- lish certificate.	W. C. Clements	.		445	260	
10	Patel, K. B. Burjorji D.	Mach	Mach, Bolan, N. W. R.	B. D. Patel		Bishan Dass		96	16	•
11	Quetta F. (Sor Range	Sor Range, Quetta, N. W. R.		•••	Hari Chand, Sor Range near Hanna.		62	10	
12	h ' (Digari	Digari, Quetta, N. W. B.	мапо	}	Gillaram	·	25	6	
18	Sorabji & Co.	Leze	Digari, Quetta, N. W. B.			Ginarati		12	8	
14	Quetta P. O.	Sor Range	Sor Range, Quetta, N. W. R.			,	•••		•••	-
	Burma Mines Development and Agency, Ld. West Most Read, Mandalay P. O.	Thitchauk		ma (No. 1 Inspection	on Circle).					
			Eastern Beng	al and Assam (No	. I Inspectio	on Circle).				
1	h	Ledo Valley (East)	1	f) !	{	*****		374	153	1
2		Ledo Valley (West)		G. Bull, 1st class service, No. 83. Autho-		*****		ا " ا	100	
8	Assam Railways and Trading Co., Ld.	Ledo Valley (Upper).	Makum, Margherita, D.S. R.	rization, No. 147, to act as manager of more than one mine.		******	·	169	100	
4	Margherita, P. O.	Tirap]		*****		14	2	G. E. Harris, Agent and General
6		Namdang	1	T. Rushton, 1st class service, No. 84.				284	169	Manager.
6	jj I	Tikak]	Authorization, No. 146, to act as manager of more than one mine.			***	273	178	
7	Maolong Coal Co	Maolong	Ishamati, Sylhet				***	***	-	
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APPENDIX V-contd.

List of Coal Mines worked under the Indian Mines Act, 1901, in British India-concld.

ompe	Name of Owner or Company arranged in alphabetical order, and postal address.	Name of Mine and number of separate Mines		Name of Manager and No.	Name of Assistant	Name and address	Date of	PERSONS	EMPLOYED	
Berial n	postal address.	of reparate Mines as defined by Rule 27.	Situation of Mine.	Certificate, Authorization or Permit.	Manager and No. and Class of his Certificate.	Managing Agent.	establishment of Special Bules.	Below ground,	Above ground.	Remas Ms.
			Pa	njab—(No. 2 Inspec	tion Circle).		,			
1	Chand, Lakhmi Ara P. O.	Chhaja	Ara, Jhelum ,	Fakir Chand				14	6	
2		Katha	Katha, Dandot, N. W. R.	Radha Kishau		Radha Kishan				
3 4	Dass, Bhagwan and Ram Kalabagh P. O.	Samewala Tajuwala	Tajuwala)	20	
5	J	Thakkar Kot .	J		***	******	***	} 18	20	
6	Dass, Ganesh Guirat, P. O.	Dher	Manihala, Jhelum	Dost Ali Shah Permit, No. 89.		·		·		
.7	Dass, Ishan, Pind Dadan Khan, P. O.	Rodianwali .	Sidhandi, Jhelum	Golam Ali				16	6	
- 1	Dass, Thakur	Gamrala	-Jhelum		***		•••	12		
. 9	Lul & Co. Kushan	Kotisuwati	—Jhelum	Mahomed Husain .			•••	25	1	
10	Nath, Bhola	Chatterwal	Dalwal, Jhelum	h	· 			11	3	
11	Dalwal P. O.	Wahgroowali .	—Jhelum , ,	Bhola Nath Permit, No. 90.		*****		7		
12	North-Western Railway Co., Lahore P. O.	Dandot	Dandot, Khewra, N. W. R.	D. Thomson, 1st class competency, No. 50, in lies of English cer- tificate.	•••			690	888	
13	Panjab Coal Co. (Lakhmi and Deva Singh) Abbottabad P. O.	Chiti Band	Mukrach, vid Golpun, N.W. R.	Kirpa Ram, 2nd class service, No. 83.			•••	183	209	E. I. Hope, Superin- tendent
14	Ram & Sons, R. S. Rocha Abbottabad P. O.	Chota Tajuwala .	Tajuwala	Uttam Singh		*****		15	6	
15		Narianwala	Narian wa!a	Faquir Chand .				15	3	
16	Singh & Co., R.B. Anup Lahore P. O.	Makarwal	Mianwalli	S. K. Taylor .	Khudabux .	Lukshman Singh		80	36	

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nahir	Standard Coal Co., Ld.	. 186
aga	. Jharia Colliery Co., Ld	96
ngaband	. Borrea Coal Co., Ld	. 37
algora	Bhalgora Coal Co., Ld.	. 32
atdih	Bengal Bhatdih Coal Co., Ld.	. 26
owna	East Indian Coal Co., Ld.	. 71
uggutdih	Bengal Nagpur Coal Co., Ld.	. 31
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Department of Mines, India.

REPORT

OF THE

CHIEF INSPECTOR OF MINES IN INDIA

Under the Indian Mines Act (VIII of 1901)

FOR THE

YEAR ENDING 31ST DECEMBER

1907

ву

J. R. R. WILSON, L. I.C.E., F.G.S.,

Chief Inspector ... Mines in India.



CALCUTTA
SUPERINTENDENT GOVERNMENT PRINTING, INDIA
1908