

Department of Mines, India.

REPORT

OF THE

CHIEF INSPECTOR OF MINES IN INDIA

Under the Indian Mines Act (VIII Of 1904)

FOR THE

YEAR ENDING 31st DECEMBER

1908

BY

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

Chief Inspector of Mines in India



CALCUTTA

SUPERINTENDENT GOVERNMENT PRINTING, INDIA

1909.

CONTENTS.

	Page.
INTRODUCTION.	
First report from edge of the Bengal coal-fields	1
Relates to administration of the Act	1
Other mining statistical publications	1
Scheme of report	1
SECTION I.—PERSONS EMPLOYED.	
Average figures of labour	1
Increase compared with preceding year	1
Decrease at mica and manganese mines	2
Increase at coal mines	2
Indian miner not ambitious to increase his earnings	2
SECTION II.—OUTPUT OF MINERAL.	
Coal, limestone and mica, increase in	2
Manganese, decrease in	2
Coal, remarks on statistics	2
" loss by cholera	2
India, largest coal producing dependency of the British Empire	2
Mica, increase in Hazaribagh	3
" decrease in Madras	3
Manganese, depression in industry	3
" decrease in the Central Provinces and Madras	3
" increase in Bombay	3
Gems, decrease in output	3
" native owned ruby mines in Burma excluded from the scope of the Act	3
Gold, increase, in Dharwar	3
Dharwar gold-field, description of	3
" " outbreak of cholera in the	4
" " ankylostomiasis in the	4
Anantapur " no ore crushed in the	4
Limestone, increase in	4
Salt, decrease in	4
Copper mines in the Central Provinces reached producing stage	4
Tin, decrease in	4
Chromite, decrease in	4
SECTION III.—ACCIDENTS.	
General remarks	4
Increase	4
Death rates	4
Deaths in each mineral working	4
Explosions of fire-damp	4
" at Nadirkhan mine, Khost colliery	4
" " Chanoh colliery	7
Falls of roof and side	8
Accident at Budruchak colliery	8
" " Sinidih colliery	8
" " Serampur colliery	8
" " Banksimulla colliery	8
" " Gopalichak colliery	8
" " Sodepur colliery	9
" " North Kustore collier	9
" " Mucheridih colliery	9
" " Murulidih colliery	10
" " Messrs. R. Dunne Son's limestone quarry, Katni, Central Provinces	10
" " Jamadoba colliery	11
" " Mouthdih colliery	11
" " Birsingpur colliery	11
" " Kusunda colliery	11
Shaft accidents	12
Accident at Kendwadih colliery	12
" " Jharis Khas colliery	12
" " Lutohipur colliery	12, 13
" " East Kuordih colliery	12
" " Dishargarh colliery	13
Explosives, accidents by	13
Accident at Khurhbari	13

FROM

J. R. B. WILSON, Esq., M.I.C.E., F.G.S.,
Chief Inspector of Mines in India,

R-2445

TO

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

Dated Dhanbaid, 15th June 1909.

SIR,

I have the honour to submit the report upon the inspection of mines in British India for the year ending 31st December 1908.

EXPLANATORY INTRODUCTION.

For the first time this report is dated from the edge of the Bengal coal-fields. On the 20th April this year the Department of Mines was transferred to Dhanbaid, a station upon the East Indian Railway, 169 miles from Calcutta, where suitable offices have been erected within easy reach of the Jharia coal-field and easily accessible to the Mining people of Raniganj. I hope the change may be wholly one of benefit to those whom it is meant to serve.

It is 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 in the form of a Quinquennial Review by the Director of the Geological Survey of India will be published this year. 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.

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 production of mineral wealth of the country.

The report is divided into five Sections, *viz.* —

Section	I.—Persons employed.
“	II.—Output of mineral.
“	III.—Accidents.
“	IV.—Prosecutions, discipline and additions to the Act.
“	V.—General Remarks.

Section I.—Persons employed.

During the year 1908 the average number of persons working in and about mines regulated by the Indian Mines Act, was 164,301, of whom 102,451 worked underground and 61,850 on the surface; 103,322 of the persons were adult males, 54,518 adult females and 6,461 children under 12 years of age. Compared with the preceding year an increase of 8 per cent. or of 12,318 workers is shown. The ratio of increase is less than that of last

year, and is accounted for chiefly by the reduction in the number of persons employed at mica and manganese mines, the number of the former being slightly less than in 1906; while at the latter there is a reduction of 2,335 persons.

The number of persons employed at coal mines has increased by 16 per cent.; practically the same ratio of increase as the output of mineral. Apparently the Indian miner has not yet reached that stage of ambition when he wishes to increase his earnings. As by filling one tub per day he can obtain quite sufficient to meet all his needs, it does not dawn upon him that by filling three he might be steadily placing himself beyond the risk of want. Unfortunately, the output per person is kept very low by the man who fills most working the least days. The Indian miner is not an economist, either political or domestic; and his logic is of the simplest—that his labour should be regulated only by the eating and drinking capacity of himself and family. Some day he may become educated and aspire to better things, even to the point of placing a higher value upon his labour. In the meantime there is room for missionary effort. Some mine managers have discovered the hidden possibilities of the miner; and, under their guidance, he has learned to work better and to show that he can appreciate the difference between a squalid hut and a clean and comfortable dwelling.

Section II.—Output of mineral.

Reference to the tables given in Appendix II shows that there has again been a gratifying increase in the output of coal and limestone, but only a slight increase in mica; while the output of manganese has decreased by 22·91 per cent.

COAL.

The coal industry in India has now assumed very important proportions; the increase is again very marked, the output having exceeded that of the previous year by over 1½ million tons.

The output was 12,149,020 tons as compared with 10,526,468 in 1907, an increase of 15·41 per cent.; practically the same rate of increase as was reached last year.

Of the total 11,559,911 tons or 95·15 per cent. were raised in Bengal, exceeding the output of the preceding year by 1,566,563.

There is no doubt that these figures, large as they are, would have been materially increased but for the almost complete cessation of work for two months owing to the severe outbreak of cholera in the coal-fields. From careful enquiries made at the larger collieries I estimate the loss of output at over 1 million tons. Prices at this season of the year were very remunerative, and the loss to the industry must have been quite 50 lakhs of Rupees.

A glance at Table 8 in Appendix II will show that India, without taking into consideration the output from mines in Native States, still easily maintains her position at the head of the coal producing dependencies of the British Empire.

A comparison with last year's figures will show that the increase comes mainly from the Jharia coal-field, where the output has gone up over 1½ million tons, Burdwan this year having an increase of only fifty thousand tons.

Pench Valley in the Central Provinces maintains the progress shown last year and has exceeded the previous year's total by 61 per cent.

The coal trade of Bengal was extremely flourishing until near the end of the year, the state of the industry being reflected in the inflated prices quoted for colliery stock. "Coal shares" was a favourite topic of conversation with every section of the community, and indignant shareholders complained through the newspapers that their dividends were not more than 50 per cent. The Indian proprietors might very usefully learn a lesson from English coal owners and utilise the handsome returns to build up reserves, instead of disposing of all the earnings in dividends.

It cannot be a wise policy to dispose of all available revenue and in a few months be hampered in development for lack of funds.

MICA.

There is an increase in the output of mica of 1,289 cwts. Like last year Hazaribagh has increased its output; while Madras has again fallen, this year the decrease being 4,516 cwts.

There was a great falling off in the demand towards the end of the year, and several of the smaller mines closed down.

MANGANESE ORE.

The flourishing condition of this industry shown by the figures for the year 1907 has given way to one of depression. Foreign competition asserted itself to such an extent that prices receded considerably, and many mines were unable to continue working at a profit.

The figures for 1907 were 642,082 tons, while last year they reached only 494,942 tons, a decrease of 147,140 tons. Of this diminution of output 113,375 tons is accounted for in the Central Provinces, which made such strides in the previous year; while Madras has a decrease of 36,103 tons.

In the Bombay Presidency the output has risen from 19,689 tons in 1907 to 22,032 tons in 1908.

GEMS.

The output of gems from Burma has again decreased; in 1907 the total was 296,125 carats, while last year it only reached 211,194. 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.

This year there is an output of 7,242 ounces of gold to record, all from the Dharwar goldfield.

This mining field lies in a hilly tract some eight miles south of Gadag in the Dharwar District of the Bombay Presidency. The present limits of the area within which mining is carried on are about five miles long by four miles broad, and the southern portion of the area and one of the mines lie within the borders of the Sangli Native State.

The gold-bearing veins are found in a belt of the same schistose complex of rocks of Archean age as are all the known deposits of vein gold in India. To these rocks the name of "Dharwars" has been given by geologists. They appear to be chiefly ancient sediments which were originally deposited on a gneissic floor and have subsequently been extensively folded by earth movements acting in an east-west direction. Long ages of denudation have now left them as meridional peninsulas of foliated rock separated by wide areas of gneiss.

In the Gadag band the gold occurs in veins of white quartz which commonly conform to the foliation planes of the schists. The principal veins occur in argillitic schist and are associated with graphite which, though small in quantity, is sufficient to give the kaolinic vein matter accompanying the quartz a black colour and slippery lustrous surface. The latter feature is one which calls for great care in the prevention of falls of ground during mining operations.

Extensive mining work was carried on within this area by ancient miners of whom not even a traditional record remains. Eight companies are now at work, and nine mines are in more or less active operation.

The sanitation of this field is well organised. There are two European doctors with ample hospital accommodation containing all necessary appliances.

There was an outbreak of cholera during the year, but it was not very serious. Ankylostomiasis still forms a large percentage of the cases of illness.

Work was also carried on in the Anantapur goldfield, but no ore was crushed during the year.

OTHER MINERALS.

Limestone again shows a considerable increase, while the output of salt has diminished.

The Copper mines in the Central Provinces have just reached the producing stage, but the quantity returned is only 10 tons.

Tin in Burma is only half the quantity returned for 1907, and the Chromite worked in Baluchistan has dropped to 1,000 tons for the year.

Section III.—Accidents.

GENERAL REMARKS.

During the year 1908, at mines regulated by the Indian Mines Act, 1901, there were 135 fatal accidents involving the loss of 194 lives, being an increase of 72 over last year's total. These are very serious figures from whatever point of view they are regarded; whereas in 1907 the death rate was 10·74 per million tons raised, last year it was 15·08. At coal mines only the death rate was 8·45 in 1907 and 13·58 in 1908 per million tons raised. The death rate per 1,000 persons employed works out to 1·37, while in the preceding year it was only ·86. It is true that 20 men were lost in a single accident in one mine and 15 within a week at another, yet the abnormal activity in the coal trade accounts for much of this sacrifice of life. The desire to increase raisings; the frequent attempts to get easy coal regardless of safe conditions, particularly trespassing to rob pillars; the casual way in which work people wander about the haulage roads in Bengal mines and the large amount of untrained labour is responsible for much of the increase. Of the persons killed 153 were males and 41 females. In addition to these deaths, fatal accidents to 27 persons who were not engaged 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:—164 in coal; 3 in mica; 5 in manganese; 9 in limestone; 2 in ruby; 1 in slate; 8 in gold; 1 in chromite; and 1 in copper mines. Of the persons killed 22 lost their lives by explosions of fire-damp; 88 by falls of roof and side; 27 in shafts; 8 by explosives; 22 by haulage; 27 by other accidents below-ground, and 20 on the surface.

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

EXPLOSIONS OF FIRE-DAMP.

In last year's report the note under this heading was commenced in a strain of congratulation that India had so far escaped any great calamity from explosions of fire-damp. Unfortunately, that record has been marred, and there has to be chronicled an account of a disaster in Baluchistan which was not more terrible in its results only because the mine was small and the number of workers limited in consequence. This is No. 1 in the list, which happened at about 10-30 o'clock in the morning on the 16th June 1908 at Nadir Khan mine, Khost Colliery, belonging to the North Western Railway.

Before making any observations on the causes which led up to the explosion a brief description of the Nadir Khan mine may elucidate the points raised. It consists principally of two main inclines driven in the seam, which is only 2 feet 6 inches thick, 560 feet in the full dip of 53° and connected at intervals of 60 feet by cross-cuts or kamanis. These kamanis are numbered

in descending order. A glance at the plan attached will show that No. 4 is continued westwards into the solid coal for a distance of 150 feet; and parallel to it, 40 feet to the rise, is another road called a service kamani, which is connected to the lower kamani by two stentons: opposite the first stenton a long wall face 40 feet long has advanced 12 feet to the rise. These comprise the upper workings. The lower workings consist of two pairs of headings, one driven a distance of 120 feet east and the other a distance of 60 feet west off the Main and Back Dips respectively. A small diversion from the bottom of the main dip is being driven in stone to form a passbye for tubs. The whole of these workings were affected by the explosion.

During the last four years the mine has been gradually developing and extending further into the seam, without any attempt having been made to create a current of air through the workings. The management depended upon natural ventilation and considered it efficient; although tests made subsequent to the explosion under conditions approximating to those on the day of the disaster proved the air in the mine to be stagnant.

It is not to be wondered at therefore, that the lower workings were unprovided with means for directing a current of air into the working places.

It is notorious that the Indian miner can luxuriate under conditions which would be almost fatal to Europeans. Here he had opportunity.

The coal is hauled up the Main Dip by means of a haulage engine at the surface. The tubs are taken along the lower levels in each case, and the coal from the top levels is sent down a shoot, at the bottom of which is a shutter to regulate the supply to the tub. These shoots create a large amount of powdery coal dust which settles upon the timbers and sides of the roadways. The volatile matter in this coal is very great reaching as high as 45 per cent. Unbonnetted Clanny safety lamps are in use throughout the mine; they were adopted, however, I am informed, on account of risk from fire and not as a protection against explosive gas.

As soon as I heard of the disaster I proceeded to Khost accompanied by Mr. G. C. Leach, Inspector of Mines, No. 2 Circle, and we reached the mine on the afternoon of the 23rd June and immediately went underground and made an inspection of the workings; the whole of the workings were further examined on the 26th, 29th, and 30th June and 1st July. I held an enquiry at Khost on the 24th June and examined all available witnesses, and came to the conclusion that the explosion originated in one of two places marked respectively A and B upon the coloured plan of the mine, and was caused by an ignition of fire-damp at a miner's lamp; being propagated throughout the mine by the agency of coal dust. On the morning of the accident the mine mistry made his usual examination when no one was in the mine, and then returned to the surface. He reports having found no gas; but it is very doubtful if he looked for any. The workers, 22 in number, descended about 7 A.M., and some time between ten and eleven o'clock the explosion occurred. Two men who were 260 feet down the Back Dip were the only persons able to escape; they were both burnt, but were able to climb up this steep incline to the surface.

The officiating manager happened to be absent at the time, but on his return a few hours later, he was successful in penetrating the mine, and at 8 A.M. next day all the bodies had been recovered. The positions in which the bodies and lamps were found are marked upon plan No. 2. I am indebted for this information entirely to the mine officials. With the exception of a carpenter named Akhtar and the two survivors, who were engaged in repairing ladders in the Back Dip, none of the men seem to have been in their working places at the time, and, what is equally extraordinary, practically none of them had done any work that morning.

The haulage engine man at the surface stated that he saw stones and dust blown from the mine. There was evidence of force all the way down: stoppings being blown out; timber dislodged; and at No. 4 kamani a heavy metal plate (plan No. 3) was lifted up, and afterwards, three tubs which were in the kamani, were blown beneath this plate, one of them rolling to the bottom of the Main Dip.

On our inspection on the 23rd June we found accumulations of gas in a cavity in the roof at the end of the bottom west level, and considerable

accumulations at the ends of each of the east levels. At this time artificial ventilation had been created by means of a furnace at the surface; so it is reasonable to assume that without ventilation there were similar accumulations at the time of the explosion.

In the bottom west level at the point marked A (plan No. 1) a stenton had been commenced uphill, contrary, I believe, to the usual practice. At this place the officials state they found two lamps, one lying upon the floor with a broken glass and bent gauze, and the other standing on its bottom upon a cross timber, level with the ordinary roof.

It is here where the breaking up made a cavity in the roof of some 20 cubic feet that the management think the explosion originated.

There were signs in this level of considerable force in a direction outbye; a tub was probably blown 24 feet outbye and was the means of knocking two men into a sump.

The coked coal dust however was spread heavily upon the outbye side of the timbers, until near the Main Dip, where the thickness of the deposit was in the reverse direction; but there were signs of burning on the inbye side of the timbers.

Pieces of stone were embedded in the inbye side of the timber near the level face, but these may have been projected from shots during blasting operations.

The evidences of coking were exactly the same in the east level opposite. In the service kamani No. 8, two lamps were said to have been found hanging by cords from a roof bar at the top of the working stenton. At this point we found burnt clothes on the bar and further outbye a burnt puggree. Of the lamps mentioned, one had a loose gauze (it would slide down into the glass) and was also the only gauze which showed signs of having been burnt. Near the face of this level the coking was slight, but increased outbye past the Back Dip, all on the inbye side. The two miners who should have been at work at the bottom of the dip stenton were found at the bottom of the Back Dip, having either been blown or fallen down.

In the west level on No. 4 kamani was perhaps the greatest exhibition of force. In the top level the greater part of the timber was blown out, the shoot from the stenton was dislodged and spread into the lower level. Near the face of the latter were signs of burning on the timbers on the outbye side and coked dust heavily deposited upon the inbye side. A stopping in the Back Dip was blown out, and 3 tubs from No. 4 kamani blown outbye with such force that they were bent at the outbye ends.

It is interesting to note that the carpenter Akhtar was working in the Back Dip opposite to the long wall face level. The two survivors state that Akhtar lost his light and placed it at the end of the level. One of them then took him the only remaining lighted lamp, and as soon as this man had rejoined his mate, 20 to 30 feet higher up, he says: "There was a report like a cannon and we were blown off our feet up the incline."

The coal dust evidence is very conflicting: the deposits seem to be heaviest where the dust was likely to be thickest; that is, at the top and bottom of the shoots and at the bottom of the Main Dip, where the tubs were attached to the rope.

The stoppings were blown in both directions. In descending order No. 1 was intact; Nos. 2 and 3 were blown inbye; sheet at No. 4 was not found, but the tubs were blown outbye; Nos. 5 and 6 were blown inbye; No. 7 was blown outbye, and cloth at No. 8 was not found.

Plan No. 2 shows the positions in which the officials say they found the bodies and the various lamps.

The evidence as to the conditions of the bodies was obtained by carefully examining the few men who removed them. It may not be very reliable. Nos. 2 and 4 belonged to the two lamps shown at the end of west level No. 8. No. 1 was found near the two lamps at the end of the bottom west level.

Three men were found with their heads inbye on the bottom east level, while their lamps remained at the bottom of the main dip. With the exception of Nos. 18 and 20, all the men were found close together. The explosion was not due to blasting; it may have been caused by a naked light, for out of the twenty lamps found, eight were unsecured.

If it originated in the bottom west level it failed to shake a lamp off a piece of timber.

Gas was previously seen in the mine a few months ago, when it fired at a shot hole; it is found, however, in the adjoining mines working the same seam.

CONDITIONS OF BODIES AFTER RECOVERY.

1. *Taj Mahomed*.—Jemadar. Mouth crushed; wound in right groin.
2. *Jellani*.—Miner. Mouth crushed and breast slightly burnt with coal-dust.
3. *Abdul Majid*.—Miner. Moustache and hair singed; breast and arm burnt. Wound in leg.
4. *Atta Mahomed*.—Miner. Eye knocked out. Breast and right leg burnt.
5. *Ajab Gul*.—Miner. Not injured at all.
6. *Nobijan*.—Miner. Not injured at all.
7. *Mir Alam*.—Trammer. Hand, foot, mouth and hair burnt badly.
8. *Saleh Mahomed*.—Trammer. Breast and back burnt and also under arms. Cheeks of pinky shade.
9. *Jalal-ud-din*.—Tram coolie. Both legs, both arms, mouth, breast, clothes and little hair burnt.
10. *Sheik Ali*.—Miner. Slightly injured, but not burnt.
11. *Kaka*.—Miner. Whiskers, hair, hand, leg and breast burnt.
12. *Malla Singh*.—Carpenter. Not injured at all.
13. *Abdul Guphar*.—Carpenter's coolie. Mouth crushed. Breast and back singed.
14. *Din Mahomed*.—Carpenter's coolie. Blood issuing from mouth.
15. *Janala*.—Miner. Blood from mouth, and breast singed. Cheeks of pinky shade.
16. *Taj Mahomed*.—Miner. Mouth crushed.
17. *Ghazi Khel*.—Miner. Mouth, hand, leg and breast burnt.
18. *Hassain*.—Miner. Leg, face, and head scratched.
19. *Nazar Ahmed*.—Miner. Face, leg and hand crushed badly.
20. *Akhtar*.—Carpenter. Leg, arm and neck broken; head smashed. Also burnt in the right half of his back.

No. 2 in the list occurred at No. 1 Chanch mine belonging to the Bengal Coal Company, Limited. A few years ago gas was discovered in this mine, so safety lamps of the Marsaut type were put in. The officials state that they have not seen any gas for two years. On this occasion the deceased was cutting roof coal at a height of 8 feet 6 inches from the floor and was taking forward a lip of coal about 18 inches deep. He was mounted upon an upturned tub, and when last seen his lamp was hanging on the side of the road a few inches from the roof and immediately behind him. He had been working for several hours under these conditions. The force of the explosion knocked his lamp off the side, and the flame severely burnt him on the back of his body, arms and legs; while the report woke up a sleeping miner in the next working place.

The flame apparently came from behind the man, and the only light in that direction was the safety lamp.

When Mr. Leach investigated the accident the lamp could not be identified, but the manager had already condemned two or three gauzes because they had been burnt.

The most probable explanation is that gas steadily accumulated and burnt in the lamp until it heated the gauzes and ignited the gas outside. Mr. Leach estimated the quantity in the cavity at about 12 cubic feet, and the flame reached to 15 or 20 feet away; gas was still giving off when the Inspector visited the mine 5 days after the explosion.

The Indian miner is not familiar with the safety lamp, but where it has been adopted some attempt should be made to teach him the elements of its uses.

A good current of air was travelling in the mine, but none was passing near this gallery.

Had this been a dusty mine, the results might have been extremely disastrous.

FALLS OF ROOF AND SIDE.

Accidents from this cause resulted in the death of 88 persons, an increase of 31 upon the previous year : 71 of the deaths occurring in coal mines ; 57 of the deaths were from falls of roof, and 31 from falls of side.

No. 4 in the list took place in the top section of No. 15 seam at the Budruchak Coal Mining Company's Budruchak mine in the Jharia coal-field and was undoubtedly due to the desire to meet the increasing demand for coal in the earlier part of the year. The mine had been standing full of water for about three years and had only been reopened a few months when the accident happened. The gallery was originally 11 feet wide, and workmen were taking side off the pillars to make it 15 feet wide, when an unforeseen slip running from the pillar into the roof allowed a length of 41 feet of roof to fall suddenly.

When pillars have been standing for such a length of time and water logged into the bargain, slips might reasonably be anticipated without waiting for the roof to fall.

No. 15 in the list happened in No. 13 seam in a shallow incline working at the Sinidih Coal Company's Sinidih mine, Katras district. The deceased was at work for the first time in that mine, and probably for the first time in any mine. He discovered that cutting away a pillar corner was easier than getting up floor coal which he was supposed to be doing ; and the result was to allow a portion of the roof to fall, and injure him so severely that he died shortly after reaching the surface.

If the labour is inexperienced, it is the duty of the management to see that it is properly supervised.

No. 20 in the list took place in one of the East Indian Railway Company's Serampur mines and resulted in the death of three persons. The seam of coal here is 22 feet thick, and the method of extracting the coal by "dropping" the upper portion of the seam, which is usually very successful, is as follows :—A pillar 40 feet square is formed by galleries driven in the bottom 6 feet of the seam. At the same time narrow channels or "chatnis" are driven in the solid coal directly above them to the full height of the seam entirely separating the pillar from the solid coal on all sides. This block is then undergone in the bottom 6 feet of the seam by cross drivages, which are widened out and systematically timbered, leaving 6 or 8 "nobs" five feet square.

When these operations are completed the timber is withdrawn, and the "nobs" blown out by explosives causing the upper portion of the seam to fall. The coal is then filled out ; long props being set to the stone roof, as soon as there is room for them, to give warning of any movement.

In this particular instance the "nobs" were irregular owing to a wide gallery having been driven through previous to the formation of the pillar. A slip in the roof had been detected at F (see plan), and rows of props were set at each side for support. Unfortunately an undisclosed slip ran through the "nob" C and getting off the coal weakened the support to the roof, with the result that a large portion of the roof coal fell and buried the workers.

The official in charge had not realised that having a slip in the roof at one side and a "chatni" on the other, the effect of the slightest movement would be to push over the coal towards the "chatni" and sway out the props. This is exactly what happened.

A few strong chocks near the "chatni" and between it and the slip would have safeguarded the place.

No. 22 in the list occurred at the Banksimulla mine, belonging to the Bengal Coal Company, Limited, and was due mainly to the responsible officials failing to appreciate the danger of two joints in the roof. The deceased was working in a gallery 15 feet wide in a 16 feet seam beneath an exposed portion of the shale roof. The two joints in the roof should have been sufficient warning to any man of experience. These were perceived, but no support was erected, nor was the place fenced off.

The workman was withdrawn, but as there was apparently no reason why he should not return, he went back, and some two tons of coal and shale fell upon him and killed him.

Officials must understand that this is not taking "reasonable means" to carry out the Act, and they will accordingly be held responsible.

No. 23 on the list, which happened at the Gopalichak Coal Company's Gopalichak mine, in a 22 feet seam, is an illustration of the casual way in which coolies are admitted into a coal mine in the Jharia coal-field. As the roof of a level was becoming unsound it was being taken down each Sunday by stone cutters or repairers who were paid a daily wage. On the morning of the accident two new coal cutters, who had not previously worked in the mine were either taken or allowed by the headman of the repairing party to go into the mine. They all worked together getting down the roof coal. After a time the roof began to crack and show signs of weight, so the repairers promptly withdrew. The two coal cutters, however, who were paid by the tub of coal, thought they could fill another tub and then leave.

In the meantime the roof fell and killed one of them on the spot. Neither of these men was legitimately employed, and the officials admitted that a coolie could be taken down the mine or go down of his own accord; could get a tip from the munshi, who up to then had been ignorant of his existence, for the coal he had out; take the tip to the cashier, get paid and go away, without any of the head officials knowing he had ever been down the mine at all. Managers of mines must remember that they are responsible for the safety of the workers.

No. 26 on the list illustrates the danger attending the withdrawal of timber, and especially of long timber near the edge of a goaf. The accident happened at the Bengal Coal Company's Sodepur mine. The deceased was withdrawing a 10 feet prop from under some roof coal at the edge of the goaf. He had sounded the roof with a long iron-shod bamboo and considered the sound satisfactory. After the prop had been loosened at the foot he knocked it with a hammer, then stepped back to listen. Almost immediately, he went forward again and gave the prop a push when the roof coal fell and caught him.

In testing the roof sound can never absolutely be depended upon; the sense of touch is much more reliable. A man should hold one bamboo against the roof, while his companion strikes it with another.

For withdrawing props "a ringer and chain" should be used, and if a prop requires only a push, then a long pole or bamboo should be employed enabling the person to stand at a safe distance.

To guide the direction of the fall of a prop, in some mines a two-pronged iron fork fixed at the end of a long bamboo is used. This is thrust into the prop before commencing to knock it out and assures it falling away from the man.

No. 37 in the list happened at the Raniganj Coal Association's North Kustore mine, Kusunda, and resulted in the death of seven men. Upon the previous shift a triangular shaped pillar was being worked out and a large area of roof coal, 7 feet in thickness, was standing upon timber; the coal also overhung the timber. The officials in charge noticed that this roof coal showed signs of weighting, so they withdrew the men and put a thin wire fence across the place. When the next shift of nineteen men in an adjoining place had been at work some time they got short of coal, so seven of them went beyond the fence, either to fill loose coal which had already fallen, or to get some easy coal from the tender pillar.

While doing so the roof coal swayed over the timber and killed them all.

The other ten afterwards ran away from the mine. A thin iron wire fence will apparently not keep out the Indian miner unless an official is about. If the roof is found to be unsafe, it should be made safe, either by increasing the support or by taking the doubtful portion down altogether.

No. 38 happened in the same seam, in another part of the same mine, and was even more disastrous than the former; seven men and one woman losing their lives—the latter being the wife of the sirdar in charge of the labour.

In this case also a pillar was being extracted next to the goaf. Eleven people were working at the face of the pillar which was 29 feet wide, getting out the bottom portion of the seam, leaving 10 feet of upper coal supported upon props.

They had undermined some 6 feet when, without any warning, the whole of the overburden forming the width of the pillar, came away, and swayed out the timber, burying eight of them.

Subsequent examination disclosed a fine weight crack in the form of a slip leaning over the pillar upon which the coal had slid.

It is obvious that vertical props beneath a weight of this character with a loose front are quite insufficient protection. Additional support in the form of long sprags well let into the floor and coal ought also to have been set: a simple remedy in such cases.

Fine weight cracks in these goaf pillars are neither suspected nor frequently carefully looked for by officials.

The steady weight which the pillars are made to carry must produce them. The experienced eye can usually detect them, and, even if they are not apparent, they must be presumed and preparations made accordingly. At this particular mine the method of extracting the pillars has since been altered.

No. 39 in the list occurred at the Mucheridih mine belonging to the Mucheridih Coal Company, Limited. A miner went into a level which was not being worked because he could get easier coal, and, after cutting a small quantity some roof coal fell and killed his daughter.

The level was used for stowing, though apparently only intermittently, and the stowing was placed along one side only.

If stowing were commenced in every case close up to the face, there would not be the same temptation to work there, and if a gallery is not being used continuously it must be fenced off.

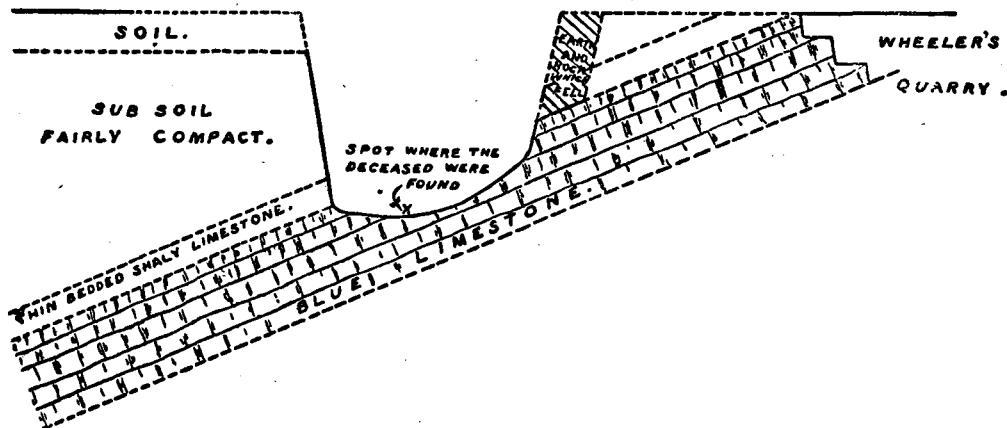
No. 40 in the list occurred at the Bengal Coal Company's Murulidih mine. A dip gallery had been holed out into a level in which two feet of roof had been previously taken down; when this gallery was widened out to the proper width a piece of roof, forming the loose end in the level, fell and killed the deceased.

There is always a risk attending holing one gallery into another which has a loose end of roof. The first holing should always be narrow and timber set as early as possible to support the lip edge.

No. 46 in the list happened on the 10th February at Messrs. R. Dunne & Son's limestone quarry, Katni, Central Provinces. The boundary dividing two quarries runs very close to the one in which the accident happened. On the day of the accident six men were employed by Messrs. Wheeler & Company, cutting back the soil at the surface near the edge of Messrs. Dunne & Son's quarry, in which some 40 persons were at work.

Without any warning a large mass of earth and rock estimated at 120 tons, slipped upon the steeply inclined surface of the limestone bed on which the material rested and rolled into the quarry. Four of the men fell after the earth for a distance of 15 feet, but none of them were much injured. Several of the men working in the bottom of the quarry were caught by the fall, seven of them being killed and two severely injured.

The following sketch illustrates the accident:—



The fall was due to the side not being sloped back and was doubtless accelerated by the rain which fell a few days previous to the occurrence, and probably also to the effect of blasting near the place of accident.

It is difficult to understand how men of experience could allow work to proceed under what was obviously such dangerous conditions, and with such apparent disregard for the safety of the work people.

The proposed new rules for mines other than coal mines, when they come into force, will, it is to be hoped, prevent a similar disaster in future.

A prosecution was instituted in this case which is referred to under heading "Prosecutions" on page 16.

No. 51 in the list which occurred at the Indian Collieries Syndicate's Jamadoba mine, in No. 17 seam, is another of the numerous cases of pillar robbing. The deceased ought to have been working in a heading, but he left that and came back to a pillar corner to get easy coal. While doing so, which his wife admitted, about $1\frac{1}{2}$ tons of coal slipped down and killed him. Only very careful supervision can overcome this evil.

No. 53 in the list happened at Babu A. C. Chatterji's Mouthdih mine, Sitarampur, in open work. A pillar of clay 10 feet high, 8 feet wide, and 15 feet to 20 feet long, rested upon coal through which at some time a narrow heading had been driven transversely. The carrying road was situated about 15 feet from this point. The husband of the deceased said that eight or nine of them were sitting down, smoking and resting in the shade of this cliff preparatory to going home, when without any warning the clay toppled over and buried his wife and injured two others.

It should have been obvious that such a "stook" of so unstable a substance as clay, apart from any considerations of fracture, might topple over at any time, and ought to have been regarded as unsafe long before the accident happened and either fenced off or removed. It had apparently existed in its original condition for some time, and everybody concerned had become blind to the danger. The manager showed grave error of judgment in exposing his workpeople to such unnecessary danger.

No. 55 in the list is another instance of pillar robbing. It happened at the Annapura Coal Company's Birsingpur mine, Mugma, in some old fenced off workings, where the natural cleats in the coal are intersected by fractures produced by weathering, forming columns of loose coal leaning up against the sides. The deceased's brother stated that they went through a fence to search for a little loose coal as they were a few baskets short of completing their stock on account of their own place being hard. They watched the sirdar go out of the pit to get his food and then went through the fence. They had no sooner started to cut when the whole side came away and buried him.

Everyone in the mine seemed to be aware of the sirdar's practice of leaving the mine for a certain period daily.

Mines cannot be efficiently managed without discipline, and it is well known that the Indian miner must have close supervision if he is to be kept safe.

No. 61 in the list occurred at the Kusunda and Nayadi Collieries' Kusunda mine. Three new miners with three women proceeded on the night shift to a part of a district comprising four galleries and were told to work in any one of them. They had been at work about three hours when nearly 25 tons of coal fell off one of the corners and buried all the women. The men said that a slight weighting warned them and gave them time to skip out of the way, otherwise they would have been caught also. The road at this point was 17 feet 6 inches wide by 15 feet 6 inches high. Such roads are a standing menace to the safety of persons passing or working in them and should always be regarded as potentially dangerous places. The roof in a road acts like a lever on the edges of the pillars, and as the road widens more power is given to it until a point is reached when the coal can no longer withstand the pressure and it crushes down.

Excessively wide galleries are generally the result of robbing favoured by inadequate supervision.

Detection of the culprits is often a difficult matter, but much can be done by systematically whitewashing all galleries as soon as they reach a certain width. This acts as a powerful deterrent to evilly disposed miners.

Inexperienced miners, such as these were, ought not to be allowed to work on the night shift when the supervision is invariably in the hands of subordinate officials. Whenever possible, it should be contrived to work them in with experienced men, or at least to work near them; and in any case, it is injudicious to give a gang of men the option of working in more than one place. The practice leads to all sorts of abuses. No person should be allowed to work in any place that has not been pointed out to him by a responsible official.

SHAFT ACCIDENTS.

No. 67 in the list happened at the Kendwadih mine belonging to the East Indian Coal Company, Limited. The deceased was employed about the pit top. He had been asleep; and wishing to go to the other side of the shaft, probably opened one of the folding gates intending to walk across the cage. The night was very dark, and it is likely that in a drowsy state he opened the wrong gate and fell down the shaft. Automatic gates were being made for this pit, and were nearly ready when the accident occurred.

No. 68 in the list happened at a sinking pit at the Standard Coal Company's Jharia Khas mine, Jharia. The front of the moveable trolley over the pit top is usually a fixture to prevent anybody or anything falling down the shaft. In this case it was a moveable fence rail to allow dirt to be taken off at either side of the shaft. When the trolley was moved backwards off the shaft, deceased fell forward to the bottom of the pit. There can be little doubt that the fence rail had not been put down.

No. 71 in the list is another illustration of risk attending temporary arrangements: it happened at the Lutchipur Coal Company's Lutchipur mine, Sitarampur. The widow of the deceased stated that when she and her husband arrived on the pit bank at night the three banksmen were asleep. Her husband woke one of them, and the latter went to wake the engineman. Soon after this the husband called to his wife to come, but she was then walking away to get a basket. When she returned her husband had disappeared.

Immoveable fences are fixed on three sides of the shaft, and on the fourth side a moveable drop bar at a height of three feet from the flat sheets is fixed opposite each cage.

It is admitted that men have got into the cages by bending beneath the bar instead of waiting until it was raised.

Although it was a moonlight night and two fires were burning no one saw the occurrence. The only explanation of the man's disappearance is that he crept beneath the bar where there was no cage and fell to the bottom of the shaft.

One bar 3 feet high is a very inefficient form of fence; there should have been at least two bars.

Permanent gates were afterwards fixed at this shaft.

No. 78 in the list occurred at the East Kuordih mine belonging to the East Kuordih Coal Company, Limited, and is a sample of engineering work which I hope will never be repeated in India.

A single winding pulley not in use was fixed to two beams across the top of the head frame. The beams were not bolted down. A scaffold was being lowered down the shaft by means of a rope over a snatch block.

The snatch block was suspended by a chain from another beam bolted to the head frame. As this position dragged the scaffold too much to one side of the shaft an attempt was made to draw over the snatch block into a more central position. With this view the ends of one of the pulley beams were lashed with rope to the frame, and the ends of the same rope were used to draw over the snatch block towards the centre of the shaft.

It can easily be understood that the weight of the scaffold upon the snatch block pulled away the unbolted beam which supported the pulley and allowed the latter to fall into the shaft.

The scaffold was demolished, and a man lost his life and two others were seriously injured.

The deceased was apparently the man who had lashed the beam, according to instructions, but no one would admit telling him also to fasten the ends of the rope to the chain supporting the snatch block.

The accident was due to gross incompetency.

No. 80 which happened at the Lutchipur Coal Company's Lutchipur mine, Sitarampur, is an instance of thoughtlessness causing the death of a man. While three men were in the bottom of a newly sunk shaft a bolt fell from the head gear and caught one of them causing a compound fracture of the leg. The man apparently refused to go to a hospital, and with the attention he received at his home gangrene set in and he ultimately died.

When the head gear was examined several bolts were found simply inserted into the holes without any nuts upon them; naturally the vibration caused the bolt to come out.

No. 82 occurred at a side entrance from No. 3 shaft in the Hatnol seam, Dishargarh mine, belonging to the Equitable Coal Company, Limited. A platform projects from the side of the shaft to within 12 inches of the cages. As the arrangements were only temporary, the manager had not considered it necessary to fence off the shaft. Water bailers only were in this seam at the time. After the men had been at work about two hours the deceased left his companions and said he was going to the surface. He proceeded with his safety lamp to the shaft and signalled to the bottom for the cage; this was sent up, and nothing was heard for about an hour when the the man fell 106 feet to the shaft bottom and was killed.

He may have lost his light and become confused and stepped into the shaft instead of the cage, or, he may have slipped between the platform and the cage.

No onsetter was employed at this landing. The deceased was quite inexperienced and ought not to have been allowed to give signals.

This side entrance ought undoubtedly to have been fenced; the interpretation of the word "temporary" must be taken literally.

BY EXPLOSIVES.

No. 84 in the list happened at the East Indian Railway Company's Bitagarha mine, Kurhbari Colliery. A band of stone 18 inches thick in the seam rendered blasting necessary. A few weeks prior to the accident several dynamite shots had been fired in a roadway, and there was a doubt at the time as to whether or not one or more had missed fire.

The deceased and another were dressing back the sides of the roadway. After loosening a slab of stone by means of a wedge, a few blows with a hammer were given to break the stone, when an explosion occurred; flying pieces of stones injured a man so severely that he died shortly afterwards; the other man was incapacitated for only a few days.

The place was visited two days afterwards by Mr. Simpson, and there was no sign of any shot hole or even a recent explosion. The cause of the accident can only be surmised. It is possible that one of the exploded shots had cut the fuse of another charge and displaced the stone which the latter was expected to blow up, leaving the second charge embedded in the remaining socket of its drill hole; or, that one of the charges had been incompletely detonated and a portion of the dynamite had been left at the bottom of the hole.

No. 89, which happened at the bottom of a sinking shaft at the Saltore Coal Company's Saltore mine, is an unusual occurrence and fortunately not likely often to repeat itself. Fourteen shot holes were charged on the day preceding the accident and fired electrically, all of them apparently going off. After the débris had been removed it was found that some side, that ought to have been broken, remained intact. Another hole was put into it, and while this was being drilled an explosion occurred. There were eight people in the shaft bottom all more or less injured, and two of them died shortly afterwards. The explosion was undoubtedly the result of a miss-shot on the previous day.

After the explosion it was found that the piece of rock had been shattered and the vertical halves of the two shot holes exposed. They were exactly $4\frac{1}{2}$ inches apart and parallel to each other. At a height of $10\frac{1}{2}$ inches from the bottom of them there was a fracture in the rock that ran across at right angles to them; this may have been caused by the explosion, or it may have been the result of two holes being drilled close together and formed during the drilling of the last hole. According to the charge put into the hole the detonator would be opposite to this crack, and if the fracture was caused

during the process of drilling the second hole, at the moment when the rock snapped it exerted a pressure upon the detonator sufficient to explode it.

I have known detonators to be fired somewhat after this manner, on more than one occasion.

HAULAGE ACCIDENTS.

Accidents under this head would practically have been *nil* had precautions been taken to prevent persons being in the haulage roads while the sets were in motion. Temporary fences erected across all openings into the haulage roads at such times, and means of signalling from the top to the bottom of inclines, warning the onsetter below of the approach of descending tubs would go a long way to remedy a matter that is rapidly becoming a reproach to colliery managers.

No 98 in the list which happened at the Bhalgora Coal Company's No. 3 Incline, Bhalgora mine, is an illustration of the loose way in which people at some mines in Bengal go into the mines.

Deceased's mining experience extended to a month only, during which time he had worked in another mine of the same colliery.

According to the evidence of his daughter who was with him at the time of the accident, they were short of tubs at the other mine, and the miners who were living with him told him he would get plenty of tubs if he worked at No. 3 Incline. Accordingly, without saying a word to anybody, he proceeded to No. 3 Incline and walked down it; apparently intending when he got down, to enquire who could put him to work and where. Before they had got very far a train of empty tubs came down and luckily missed the girl, but caught the man and injured him so severely that he died soon after reaching the surface.

This Incline was used for haulage only, another being provided for travelling. No one admits having seen the deceased and his daughter enter the incline. A relative helped to bring him out.

No. 102 in the list which happened at Mr. C. J. Smith's Bagdiggi Colliery, Jharia, was due largely to carelessness on the part of the gateman at the top of the incline. As is usual in such cases the man absconded.

After a full train landed at the top of the incline the last tub became detached, or got away while being uncoupled and ran 400 feet down the incline, killing two women. A pair of uprights with a bar across is fixed at the end of the brow in order to catch runaway tubs. The gateman had apparently failed to fix this properly. Runaway points are also arranged below the gate; it is possible that the tub jumped over them.

No. 106 in the list which occurred at the Aldih Coal Company's No. 1 Incline, Blutgoria mine, throws light on a common danger. Three empty tubs stood on the brow of the incline ready to descend. The hookman secured the back one to the rope, but forgot to couple the others to it, so that when the block was opened and the set started the latter ran amain down the incline and killed a man below.

The provision of a second stop-block, runaway switch or kick-up some little distance below the brow would probably have averted the accident. At certain collieries this simple precaution is the subject of a special rule, and the manager is enjoined to "see that additional blocks or runaway switches are fixed below the first block at a greater distance than the length of a train of tubs."

No. 110 in the list exemplifies the necessity for designing drawbars of tubs for use on heavy grades of suitable strength. Six tubs were being raised in an incline, on a grade of 1 in 3, and when near the top a drawbar broke at a rivet hole and four tubs rushed back into the mine and caught the deceased. The drawbar was made of inferior iron 3 inches by $\frac{1}{2}$ inch cross section, and an examination showed that it had become crystalline and brittle. Even with the best Lowmoor this section would give too low a factor of safety. It cannot be too often borne in mind that drawbars designed for flat grades become a danger when used on heavy ones.

There have been several accidents due to faulty construction of pit tubs. Iron tubs which have no drawbars and the frames of which are made

to bear the whole strain of haulage are in common use. An attachment rivetted on to the end of a tub is much too weak for most of the gradients in Bengal mines. All tubs should be provided with drawbars, and also with an effective coupling which will not become loose in ordinary work.

The regular examination of these couplings and the rejection of those which have become worn or strained, does not receive the attention necessary: this is a question that managers have entirely in their own hands.

SURFACE ACCIDENTS.

No. 124 in the list happened at the East Indian Railway Company's Serampur No. 2 mine, Giridih. This shaft was used only for pumping. Four men were lowered in a bucket to go to the pumps, and some time later one of them wished to ascend. During this interval the winding engineman had gone away, and another who had been taking his food, had taken his place.

It was a dark, windy and rainy night: during the winding a lad stood near the edge of the pit with a lighted lamp, but just as the bucket appeared his light was blown out. The engineman may have become confused as he would still see only one lamp; however, he dragged the bucket up to the winding pulley until the rope came off it, and they fell to the ground level: the man was injured so seriously that he died in a few hours. The whole place was apparently very imperfectly lighted, for which the assistant enginewright was to blame.

No. 128 in the list occurred at No. 3 Bejdih mine belonging to Messrs. Macneill & Company. This was a sinking pit, and in the place of the usual head gear, shearlegs made of two 4-inch wrought iron pipes 32 feet long were used, being guyed by ropes fastened to sleepers sunk 3 feet into the ground. These sleepers were 10 feet long and ought to have had the 3 feet out of the ground instead of in. The ground was probably very soft owing to the rains, and it is not very strange that the guys gave way. Unfortunately the legs fell over and crushed a woman to death.

The whole arrangement was flimsy in the extreme and not creditable to the management.

ACCIDENTS NOT INCLUDED IN THE STATISTICS.

No. 3 in the list occurred at the Bhulanbarari Coal Company's Bhulanbarari mine. A mass of overburden had been removed from a seam of coal leaving a cliff of soil 26 feet high and almost vertical: while a child was playing on the newly bared coal below, the side slipped and buried it. The place had been inspected by responsible officials during the shift, but they had failed to detect anything wrong. In such cases ordinary prudence suggests that the side should be stepped back or otherwise put on a safe slope before workpeople, much less children, are allowed to go below. I had hoped that the last of such accidents had been recorded.

No. 24 in the list is a case where a baby lost its life underground.

The mother had placed it on a ledge 3 feet high while she loaded her tub. Suddenly a fall of roof took place in a gallery about 20 feet away, and the blast blew the child off the ledge and killed it. Taking children and particularly babies into mines cannot always be avoided, but it should never be encouraged. It is not a matter of surprise that the roof fell as the gallery was 18 feet wide and unsupported by timber. Discipline cannot be strict where such irregular working is permitted.

Section IV.—Prosecutions and Additions to the Act.

(a) ADDITIONS TO THE ACT.

No additions of any importance were made during the year under review. Only two notifications were issued, one amending the provisos attached to rules Nos. 32 and 33 (applicable to coal mines), and the other codifying the various

existing rules framed under the Act, with the exception of Rules Nos. 1-57. The notifications are shown in Appendix IV.

(b) PROSECUTIONS.

Only one prosecution was instituted during the year. It was a case where a manager of a limestone quarry in the Central Provinces was prosecuted in connection with an accident which occurred by the falling in of a side of his quarry, resulting in the death of seven men and the injuring of two others.

As it was considered that there had been no breach of the Indian Mines Act, but that the manager had shown great recklessness and disregard for the lives of his workpeople in not having sufficiently sloped back the particular side which fell, although having been previously warned about it, it was decided to proceed against him under Section 304(a) of the Indian Penal Code. The case was tried before the Extra Assistant Commissioner before whom the accused stated that he had carried out the instructions given him, and that the accident was the result of blasting operations carried on at a neighbouring quarry and the rains which had fallen a few days previous to the blasting. The case was dismissed, as the Magistrate held that the charge brought against the accused was not proved.

Section V.—General Remarks.

HEALTH AND SANITATION.

The coal areas of Bengal, particularly the Jharia coal-field, are peculiarly liable to outbreaks of infectious diseases. Smallpox, plague and cholera claim a large annual toll from the inhabitants of these districts, and the little that has been done in previous years has apparently been unable to stem the recurrent onslaughts of these foes in epidemic form.

"Cholera," as was mentioned in this report two years ago, "is a waterborne disease, and until a proper scheme for the supply of pure water is in operation its dark shadow will lie across the district." Hitherto tanks and wells have been the only sources of water supply, and when a stagnant tank is used indifferently for washing cattle, human beings and clothes, it is not surprising that it becomes contaminated. Fortunately this is thoroughly appreciated by all the leading colliery managers, and many of them lack only the power and the funds placed at their disposal to instal an efficient water supply to the colliery villages under their charge.

In a few instances this has already been done. Conspicuous amongst the number who have arisen to the occasion are Messrs. Kilburn and Company, who have already erected four Jewel filters at Jamadoba Colliery.

These filters are giving very satisfactory results. The water pumped from the mine is passed through the filters, and after being led along a 3-inch main is distributed by 2-inch pipes all over the colliery and around the miner's "dhowrahs"; at the latter, taps and stand-pipes are erected which receive their pressure from overhead tanks, so that the miner has always a constant supply of good water at his door. Proper drains are constructed to carry away the waste water from the taps. Owing to the developments at the colliery three large gravity filters, 10 feet in diameter, are to be erected, and the supply of water will come from the Damuda river. Already 1½ miles of 5-inch pipes have been laid towards the river: when the scheme is complete there will be a supply of filtered water for over 2,000 people.

The same firm are showing a praiseworthy example in the way of sanitation. The new miners' dwellings are substantially built in lines far enough apart to ensure thorough ventilation; orders have been issued for these huts to be kept thoroughly cleaned and regularly whitewashed and disinfected, and it is intended to supply proper sanitary enclosed refuse bins and a cart to empty them daily.

The Jewel filter is in use at several mines, with great benefit to the miners. Colonel Clarkson, I. M. S., Sanitary Commissioner, Bengal, agrees with me that this or a similar type of filter properly worked, could meet all the requirements of a germ-free water supply.

The large proprietors may arrange installations and meet the greater part of the difficulty of water supply, but the small owners and particularly the Indian proprietors hesitate to do anything, and thus the risk remains of infecting a whole area. Even were the contagion kept within the bounds of its outbreak, the labour at adjoining mines takes fright; so that a properly equipped mine may suffer for the sanitary shortcomings of its neighbour.

It would appear therefore that only a complete district scheme of water supply and control of sanitation would meet the needs of areas like the Jharia coal-field. On every hand I believe colliery managers would welcome an authority with power to compel something like uniform efficiency in this respect.

If the law does not allow local authorities to insist upon adequate provision being made in this matter, then I would suggest that Government should amend the Mines Act to the extent of including in the word "mine" the adjacent "dhowrahs" and villages depending upon the mine.

The necessity for urgent measures was vividly brought home to the mining community last year when from the middle of March for about two months cholera was rampant in the coal-fields. At the collieries alone nearly 5,000 deaths occurred, and in the adjoining villages, from which it is impossible to obtain any reliable statistics, the loss of life was probably much more. Work was stopped at mines because the labour fled. About the middle of May while inspecting one mine I found only 250 people employed; a few weeks before the number at work was 2,000. This state of things was reflected all over the Jharia coal-field, and the gruesome sights that were witnessed are not likely soon to be forgotten. I took the opportunity of visiting some of the mines with Dr. Haffkine and along with the miners was inoculated for cholera. Many of the officials availed themselves of this safeguard and were loud in their praises of Dr. Haffkine's work and the confidence it gave to the workers generally.

At the Dandot coal mines in the north-west of the Panjab owned by the North Western Railway a plague prevention committee looks after the well-being of the village. Last year by means of trapping nearly a thousand rats were caught and destroyed, which practically cleared the village. As a whole the villagers keep their own places clean, but a sweeper is employed, when necessary, to gather up any filth that may have been thrown out.

AMBULANCE WORK.

It is to be regretted that ambulance work is not given the prominence at Indian mines that its value merits. I am quite satisfied that a knowledge of "first aid" by mine officials would prevent many serious accidents terminating fatally. India in this respect lags very much behind other coal-producing countries. The subject, however, has obtained a footing at some of the leading mines.

The European staff of the East Indian Railway Company's collieries was trained in 1906 by Dr. Bathe, the Senior Medical Officer of the East Indian Railway Company, and a course of lectures given in ambulance work. The result was that fourteen officials received certificates from the St. John's Ambulance Association.

In addition to this all the deputy overmen and sirdars are drilled weekly in the practice of fixing splints, tying bandages and stopping bleeding. Their skill, I believe, is remarkable.

A similar drill is given every Sunday to the subordinate staff of the Khost collieries in Baluchistan, belonging to the North Western Railway, and I observe with satisfaction that one of the Bengal collieries is seriously taking the matter up and training its official staff.

The Bengal Coal Company approved of a scheme of instruction in the principles of "first aid," and I was hoping to hear of its successful working; for some reason, however, it has never been put into operation.

MINING EDUCATION IN INDIA.

Satisfactory progress under the above heading has to be recorded for the year under review.

I learn from Mr. E. H. Robertson, the Professor of Mining Engineering at Sibpur College, that five students were successful in gaining their diplomas in the principles of mining at the examination held in April 1908, and obtained excellent appointments in the coal-fields. The other mining students who left the college at the same time without gaining the diploma, also secured good appointments.

There were eighteen students attending the mining courses at the college during the session 1908-09. Of these fourteen were studying the first year course, and three the second year, while one was an external student. From these students a certain number have been weeded out by the system of monthly examinations, and others have left the college, leaving seven to sit for examination in course one and two for the diploma examination.

The camp of mine surveying and practical mining was pitched at Jharia, during January and February 1909. Surveys were made in the mines of the Lodna and Standard Coal Companies and visits of inspection made to the numerous mines in the vicinity.

The practical mining laboratory is now in working order, as such machines as have arrived up to date are running. Other machines are on the way, and will be installed as soon as they arrive. A coal washing machine and a briquette press are being ordered this year.

Mr. W. T. Griffiths, the Mining Instructor, Bengal, who delivers lectures on mining at different centres in the coal-fields, also reports very hopefully. He says: "The progress made in mining education in the coal-fields of Bengal continues to be satisfactory, and greater appreciation of the facilities afforded by Government is apparent in the attendances recorded.

"At the four centres, two of which are in the Raniganj and two in the Jharia coal-fields, 417 students were enrolled up to the end of the year, and the average attendance at each lecture was 80.

"Of the 74 persons who have been granted certificates of competency under the Indian Mines Act 60 have attended the course of instruction.

"Owing to the recent completion of the erection of four lecture rooms better accommodation is now provided, and an improvement in results can be anticipated."

Information relating to the course of study at the Civil Engineering College, Sibpur, and to the lectures delivered at the coal-fields will be found in Appendix III, Table No. 4.

MINING AND GEOLOGICAL INSTITUTE OF INDIA.

The Mining and Geological Institute of India has again shown very satisfactory progress both in the number of its members and in the interest taken in its meetings. It now has 267 members of all grades—an increase of 42 over the previous year. Meetings were held in Calcutta, Sodepur, Jharia and Dishargarh for the reading of papers and inspection of collieries. Of the seven papers read; one dealt with mica, one with long wall working, two with mine dams, one with coal dust, and one with central electric stations for collieries.

The excursion meetings in connection with the institute are of considerable educational value, as they enable members to see what others are doing and to take advantage of their neighbour's experience. All such meetings were well attended. Mr. H. G. Graves, who has been such a capable secretary, was unanimously elected to the presidential chair for the year 1909, and the institute was fortunate in securing as his successor Mr. H. H. Hayden, Superintendent of the Geological Survey of India.

If Mr. Hayden can imbue the members with some of his own energy and spirit, the institute is certain to flourish.

BOARD OF EXAMINERS.

During the year 1908 there was one change on the Board, that was when Mr. Grundy, who had been officiating, was succeeded by myself as Chief

Inspector of Mines in India, and I thus became *ex-officio* President of the Board.

The Board held nine meetings, Mr. Grundy being President of the first and myself of the remainder.

There were 61 new applicants for service certificates, of whom 25 were successful.

Fifty-three applicants holding first and second class British certificates of competency were furnished with similar Indian certificates.

An examination was held on the 5th, 6th and 7th August for certificates of competency at which 82 candidates appeared, but only fifteen were successful in obtaining the requisite number of marks qualifying for certificates. The results were disappointing, but I have great hopes that the lectures being delivered in the coal-fields by Mr. Griffiths will greatly improve this state of affairs. The examiners were Messrs. Geo. Miller and G. C. Lathbury (non-official members) and G. F. Adams (official member) who acted as secretary.

MINING BOARD OF BENGAL.

Three meetings of the Mining Board were held during the year. At these meetings the Board approved of the following:—(a) Rules Nos. 1 to 24 applicable to mica and limestone mines, and (b) draft notification consolidating together the existing notifications publishing the rules under the Indian Mines Act of 1901.

The question of drawing up rules under the Act for the provision of suitable water for drinking purposes at works above ground and the bearing of the Mines Act upon the general questions of sanitation, conservancy and water supply at mines were also considered.

LAND ACQUISITION (MINES) ACT, 1885.

I would remind colliery owners that when they give notice to the Government of Bengal in the Judicial Department under Section IV of the above-named Act of their intention to work coal they are always required to furnish certain particulars. It will save time and lessen correspondence if the particulars accompany the notice; they are as follows:—

- (a) the name, residence and profession of the person giving the notice;
- (b) the name of the mine together with that of the village and district in which the mine is situate;
- (c) the name of the railway line or of the siding and the main line to which the siding is attached, under which the mine is situate;
- (d) the names of the railway stations and the mileage between which the said siding or the said portion of the railway land, under which the mine is situate, falls;
- (e) the number and date of the declaration under which the land was acquired;
- (f) a tracing showing the boundaries of and the area over which the acquired land extends.

OFFICIAL DUTIES.

Mr. J. Grundy, the Inspector in charge of No. 2 Circle, retired from the service and returned to England. He came to India at the end of 1893 and was the first Inspector of Mines under the Government of India. He was a hardworking official of considerable practical experience and his knowledge was always at the service of the mining community.

His place was filled by the appointment of Mr. G. C. Leach, who in addition to having a good theoretical and practical training in England had the advantage of a knowledge of Indian Mining, having been for about six years in the service of the East Indian Railway Company at their Giridih collieries. He has proved himself a very capable officer. All the Inspectors have devoted the

I learn from Mr. E. H. Robertson, the Professor of Mining Engineering at Sibpur College, that five students were successful in gaining their diplomas in the principles of mining at the examination held in April 1908, and obtained excellent appointments in the coal-fields. The other mining students who left the college at the same time without gaining the diploma, also secured good appointments.

There were eighteen students attending the mining courses at the college during the session 1908-09. Of these fourteen were studying the first year course, and three the second year, while one was an external student. From these students a certain number have been weeded out by the system of monthly examinations, and others have left the college, leaving seven to sit for examination in course one and two for the diploma examination.

The camp of mine surveying and practical mining was pitched at Jharia, during January and February 1909. Surveys were made in the mines of the Lodna and Standard Coal Companies and visits of inspection made to the numerous mines in the vicinity.

The practical mining laboratory is now in working order, as such machines as have arrived up to date are running. Other machines are on the way, and will be installed as soon as they arrive. A coal washing machine and a briquette press are being ordered this year.

Mr. W. T. Griffiths, the Mining Instructor, Bengal, who delivers lectures on mining at different centres in the coal-fields, also reports very hopefully. He says: "The progress made in mining education in the coal-fields of Bengal continues to be satisfactory, and greater appreciation of the facilities afforded by Government is apparent in the attendances recorded.

"At the four centres, two of which are in the Raniganj and two in the Jharia coal-fields, 417 students were enrolled up to the end of the year, and the average attendance at each lecture was 80.

"Of the 74 persons who have been granted certificates of competency under the Indian Mines Act 60 have attended the course of instruction.

"Owing to the recent completion of the erection of four lecture rooms better accommodation is now provided, and an improvement in results can be anticipated."

Information relating to the course of study at the Civil Engineering College, Sibpur, and to the lectures delivered at the coal-fields will be found in Appendix III, Table No. 4.

MINING AND GEOLOGICAL INSTITUTE OF INDIA.

The Mining and Geological Institute of India has again shown very satisfactory progress both in the number of its members and in the interest taken in its meetings. It now has 267 members of all grades—an increase of 42 over the previous year. Meetings were held in Calcutta, Sodepur, Jharia and Dishbargarh for the reading of papers and inspection of collieries. Of the seven papers read; one dealt with mica, one with long wall working, two with mine dams, one with coal dust, and one with central electric stations for collieries.

The excursion meetings in connection with the institute are of considerable educational value, as they enable members to see what others are doing and to take advantage of their neighbour's experience. All such meetings were well attended. Mr. H. G. Graves, who has been such a capable secretary, was unanimously elected to the presidential chair for the year 1909, and the institute was fortunate in securing as his successor Mr. H. H. Hayden, Superintendent of the Geological Survey of India.

If Mr. Hayden can imbue the members with some of his own energy and spirit, the institute is certain to flourish.

BOARD OF EXAMINERS.

During the year 1908 there was one change on the Board, that was when Mr. Grundy, who had been officiating, was succeeded by myself as Chief

Inspector of Mines in India, and I thus became *ex-officio* President of the Board.

The Board held nine meetings, Mr. Grundy being President of the first and myself of the remainder.

There were 61 new applicants for service certificates, of whom 25 were successful.

Fifty-three applicants holding first and second class British certificates of competency were furnished with similar Indian certificates.

An examination was held on the 5th, 6th and 7th August for certificates of competency at which 82 candidates appeared, but only fifteen were successful in obtaining the requisite number of marks qualifying for certificates. The results were disappointing, but I have great hopes that the lectures being delivered in the coal-fields by Mr. Griffiths will greatly improve this state of affairs. The examiners were Messrs. Geo. Miller and G. C. Lathbury (non-official members) and G. F. Adams (official member) who acted as secretary.

MINING BOARD OF BENGAL.

Three meetings of the Mining Board were held during the year. At these meetings the Board approved of the following:—(a) Rules Nos. 1 to 24 applicable to mica and limestone mines, and (b) draft notification consolidating together the existing notifications publishing the rules under the Indian Mines Act of 1901.

The question of drawing up rules under the Act for the provision of suitable water for drinking purposes at works above ground and the bearing of the Mines Act upon the general questions of sanitation, conservancy and water supply at mines were also considered.

LAND ACQUISITION (MINES) ACT, 1885.

I would remind colliery owners that when they give notice to the Government of Bengal in the Judicial Department under Section IV of the above-named Act of their intention to work coal they are always required to furnish certain particulars. It will save time and lessen correspondence if the particulars accompany the notice; they are as follows:—

- (a) the name, residence and profession of the person giving the notice;
- (b) the name of the mine together with that of the village and district in which the mine is situate;
- (c) the name of the railway line or of the siding and the main line to which the siding is attached, under which the mine is situate;
- (d) the names of the railway stations and the mileage between which the said siding or the said portion of the railway land, under which the mine is situate, falls;
- (e) the number and date of the declaration under which the land was acquired;
- (f) a tracing showing the boundaries of and the area over which the acquired land extends.

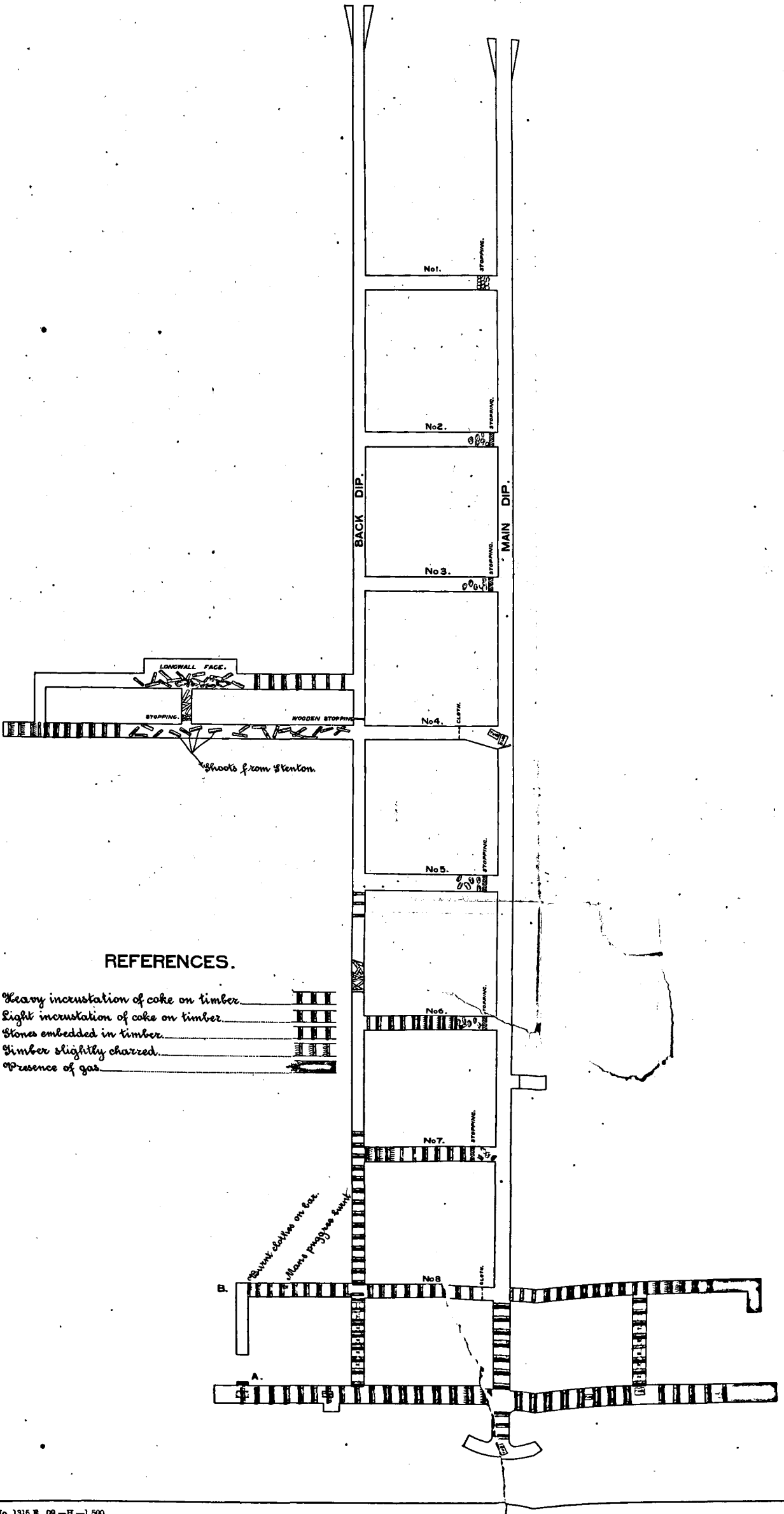
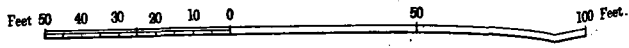
OFFICIAL DUTIES.

Mr. J. Grundy, the Inspector in charge of No. 2 Circle, retired from the service and returned to England. He came to India at the end of 1893 and was the first Inspector of Mines under the Government of India. He was a hardworking official of considerable practical experience and his knowledge was always at the service of the mining community.

His place was filled by the appointment of Mr. G. C. Leach, who in addition to having a good theoretical and practical training in England had the advantage of a knowledge of Indian Mining, having been for about six years in the service of the East Indian Railway Company at their Giridih collieries. He has proved himself a very capable officer. All the Inspectors have devoted the

NORTH WESTERN RAILWAY,
KHOST COLLIERIES
NADIR KHAN MINE
(BALUCHISTAN).

Scale 1 Inch = 40 feet Plotted on slope.



REFERENCES.

- Heavy incrustation of coke on timber
- Light incrustation of coke on timber
- Stones embedded in timber
- Timber slightly charred
- Presence of gas

whole of their time to their duties, and their work has often been arduous and exacting. Their relations with all engaged in mining have been of the happiest description.

The work increases with the expansion of the industry; advice is sought upon points connected with every side of mining; and Land Acquisition (Mines) Act cases become increasingly numerous and important and absorb a large share of the Inspectors' time.

There has been no change in the arrangements of the districts allotted to each officer; a list of the circles will be found in Appendix III, Table No. 9.

I have the honour to be,

SIR,

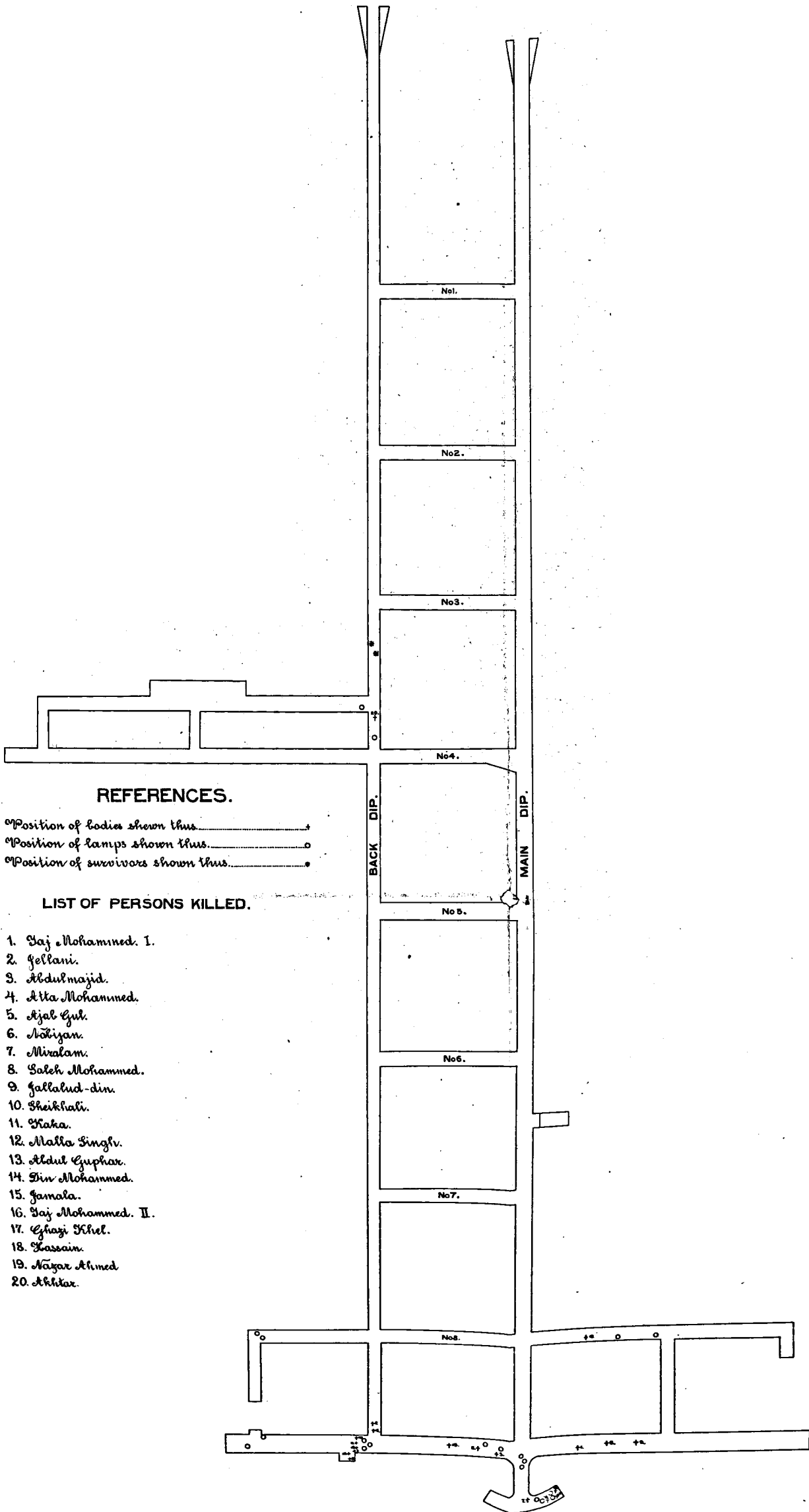
Your most obedient servant,

J. R. R. WILSON,

Chief Inspector of Mines in India.

NORTH WESTERN RAILWAY,
KHOST COLLIERIES,
NADIR KHAN MINE,
(BALUCHISTAN).

Scale 1 Inch = 40 feet Plotted on slope.



REFERENCES.

- Position of bodies shown thus
- Position of lamps shown thus +
- Position of survivors shown thus •

LIST OF PERSONS KILLED.

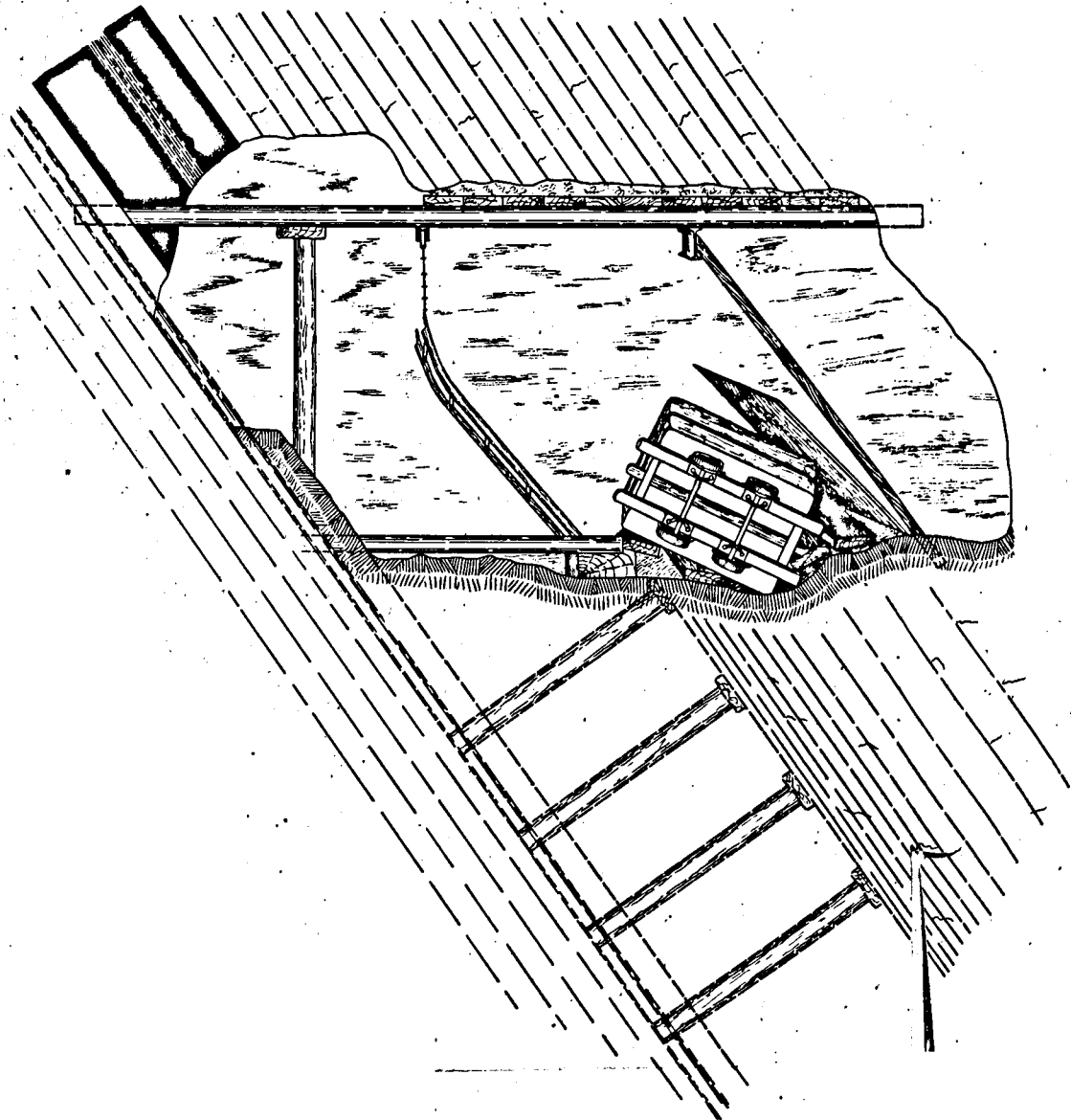
1. Saj Mohammed. I.
2. Jellani.
3. Abdulmajid.
4. Atta Mohammed.
5. Ajal Gul.
6. Akhayan.
7. Miralam.
8. Saleh Mohammed.
9. Jallalud-din.
10. Sheikhali.
11. Kaka.
12. Malha Singh.
13. Abdul Guphar.
14. Din Mohammed.
15. Jamala.
16. Saj Mohammed. II.
17. Ghazi Kheil.
18. Kassain.
19. Nazar Ahmed.
20. Akhtar.

NORTH WESTERN RAILWAY.
KHOST COLLIERIES,
NADIR KHAN MINE.

Shewing condition of No. 4 Kamani Junction with main dip
after the explosion.

Scale 1 Inch = 3 feet.

Inches 12 9 6 3 0 1 2 3 4 5 6 7 8 9 10 Feet.

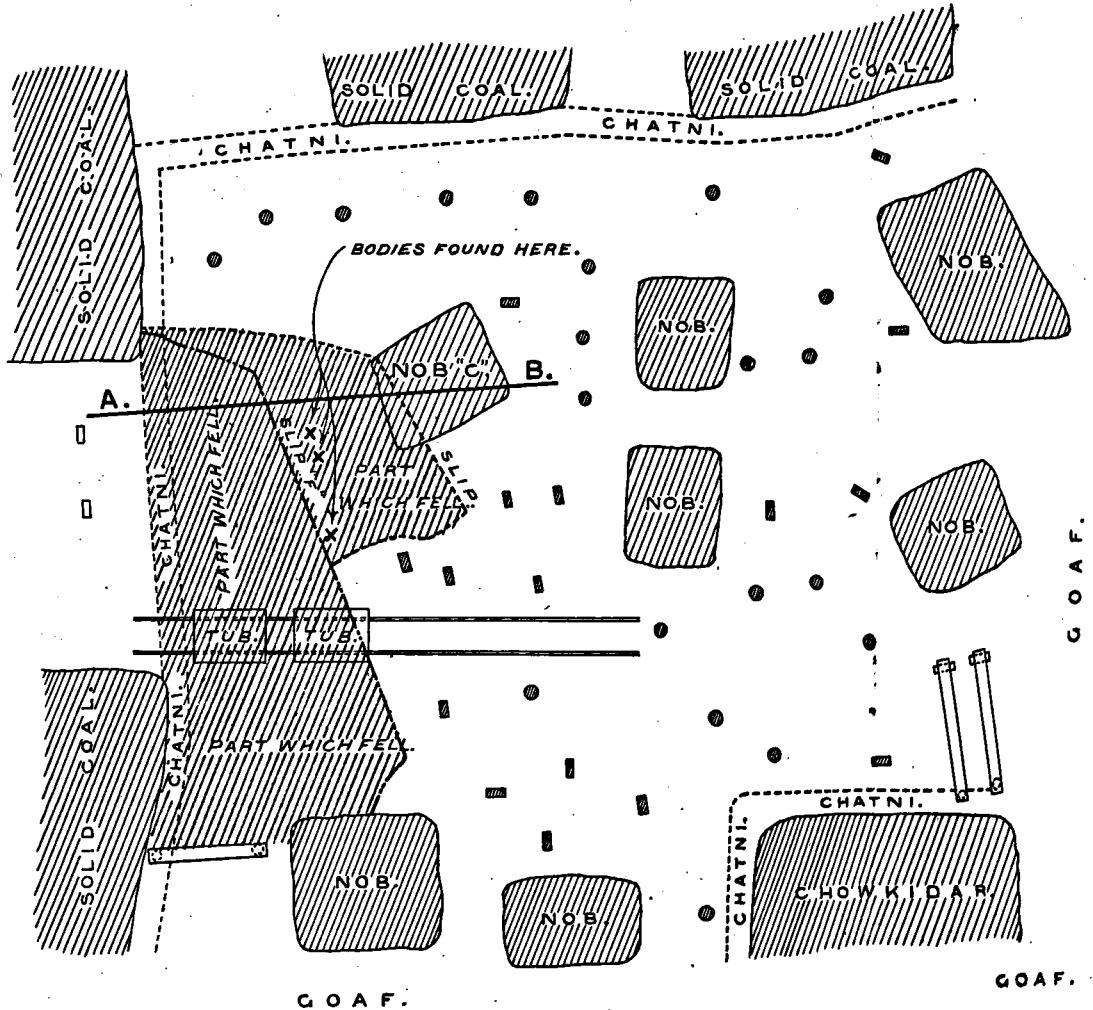


E. I. R. COLLIERIES, GIRIDIH.

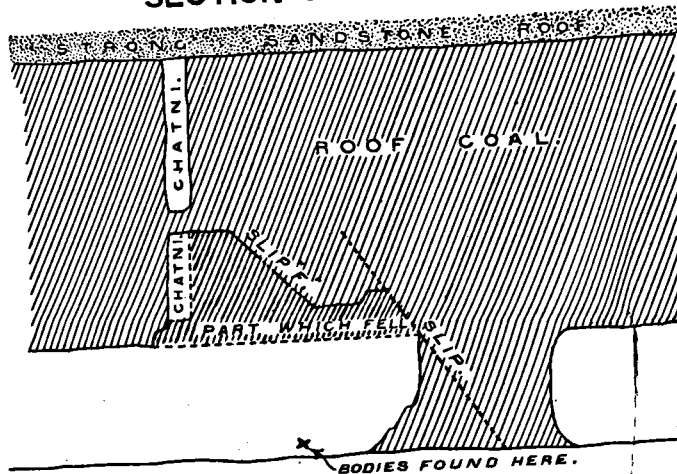
PLAN AND SECTION OF THE PLACE WHERE THREE PERSONS WERE
KILLED BY A FALL OF ROOF COAL AT 16A MINE ON 9TH APRIL 1908.

SCALE 1 INCH = 8 FEET.

PLAN.



SECTION ON LINE A.B.



APPENDIX I—contd.

Fatal Accidents, 1908—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.	Cause of accident and remarks.
----------------	----------------------------	-----------------------------	----------------	--	-------------------------	--------------------------------

FALLS OF ROOF AND SIDES—contd.

(a) Falls of roof—contd.

5	11th January, 12-30 A.M.	No. 3 Mine, Khoist Colliery, Khoist P. O., Sibi, Baluchistan.	North-Western Railway.	Jhanda, (m.), 25, Shift charge-man.	Coal	While he was sitting, a piece of stone 8' x 14" x 15" fell from the roof on a long wall face, knocked out two face props, and pinned the deceased against a prop, killing him instantly. Inspection and inquiry made.
6	14th January, 9-30 A.M.	Upper Ledo Mine, Margherita P. O., Lakhimpur, Eastern Bengal and Assam.	Assam Railways and Trading Co., Ltd.	Kuldip, (m.), 25, Basket filler. Subron, (f.), 20, Tub-filler.	Coal	Killed by a fall of about 30 tub-loads of coal.
7	15th January, 8-30 A.M.	Dandot Mine, Dandot P. O., Jhetum, Panjab.	Government of India.	Railu, (m.), 25, Miner.	Coal	The deceased was cutting coal when a fall of roof occurred, suffocating him to death.
8	20th January, 1 A.M.	No. 3 Mine, Khoist Colliery, Khoist P. O., Sibi, Baluchistan.	North-Western Railway.	Azam, (m.), 35, Miner.	Coal	A piece of shale 6' x 9" x 12" fell from the roof of a long wall face on the deceased, who was lying immediately below, and so severely injured him internally that he died two hours later. Inspection and inquiry made.
9	22nd January, 11-30 A.M.	New Tetturia Mine, Katrasgarh P. O., Manbhium, Bengal.	New Tetturia Coal Co., Ltd.	Mundri Deswarin, (f.), 25, Coal-carrier.	Coal	The deceased fractured her leg by a fall of roof coal and died on the 24th January, after being delivered of a dead child.
10	28th January, 11 A.M.	Namdang Mine, Margherita P. O., Lakhimpur, Eastern Bengal and Assam.	Assam Railways and Trading Co., Ltd.	Holi Bux, (m.), 23, Coal-cutter.	Coal	The deceased and two others had been cutting coal and were sitting down resting when about two tubs of coal fell on them. Two were slightly injured but the deceased so seriously that he died about 9 P.M.
11	30th January, 4 P.M.	Namdang Mine, Margherita P. O., Lakhimpur, Eastern Bengal and Assam.	Assam Railways and Trading Co., Ltd.	Notobar Urya, (m.), 29, Basket-filler.	Coal	The deceased was filling a basket when about a cwt. of mud fell on him and injured him so seriously that he died on the way to the hospital.
12	1st February, 3 A.M.	Huntodih Mine, Mohoda P. O., Manbhium, Bengal.	Huntodih Coal Co., Ltd.	Chandey Majhi, (m.), 35, Miner.	Coal	The deceased was cutting coal in a dip gallery when a triangular piece of roof 16 ft. along the base by 10 ft. perpendicular by 1' 3" thick, suddenly fell on him killing him instantaneously. Inspection and inquiry made.
13	1st February, 2 P.M.	Mysore Mine, Kabulyatkatki P. O., Dharwar, Bombay.	Mysore Gold Mining Co., Ltd.	Chandiah, (m.), 24, Coolie.	Gold	Killed by a fall of roof whilst putting in timber supports. Inspection and inquiry made.
14	1st February, 3 P.M.	Dhundabad Mine, Sitarampur P. O., Burdwan, Bengal.	New Manbhium Coal Co., Ltd.	Soomi Majbain, (f.), 26, Coal-kamin.	Coal	The deceased went under some overhanging stone, near the face of a working place to fill her basket, when the stone fell on her causing injuries from which she died in about an hour after. Inspection and inquiry made.
15	26th February, 2 P.M.	Sinidih Mine, Katrasgarh P. O., Manbhium, Bengal.	Sinidih Coal Co., Ltd.	Rawan Kumar, (m.), 35, Miner.	Coal	The deceased cut the corner of a pillar dislodging a stone from the roof 4' 3" x 1' 7" x 10", which fell on him, injuring his lungs and causing death within an hour. See Report, page 8. Inspection and inquiry made.

APPENDIX I—*contd.*Fatal Accidents, 1908—*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.	Cause of accident and remarks.
FALLS OF ROOF AND SIDES—<i>contd.</i>						
(a) Falls of roof—<i>contd.</i>						
16	27th February, 5 P.M.	Kustore Mine, Kusunda P. O., Manbhum, Bengal.	Raniganj Coal Association, Ld.	Kewal Gope, (m.), 30, <i>Propping coolie.</i>	Coal	Injured by the fall of a piece of stone while he was engaged in holing a pillar for putting in props. Died on the 29th February.
17	21st March, 1 P.M.	Napara Mine, Asansol P. O., Burdwan, Bengal.	Damra Coal Co., Ld.	Jangu Bauri, (m.), 35, <i>Coal-cutter.</i>	Coal	He was wedging down a slab of undercut coal in the face of a gallery when the mass suddenly fell on him, fracturing his leg. He died on the 7th April. Inspection and inquiry made.
18	28th March, 5-45 P.M.	Raghunathbatty Mine, Sitarampur P. O., Burdwan, Bengal.	Sudhi Coal Co., Ld.	Charon Dome, (m.), 65, <i>Bricklayer.</i>	Coal	While building a brick arch where the incline enters the mine, a stone from the roof fell on him and fractured his head. He died within half an hour. Inspection and inquiry made.
19	3rd April, 9 P.M.	Hosur Mine, Kabulayatkatti P. O., Dharwar, Bombay.	Champion Reef Gold Mining Co.	Amavashi, (m.), 25, <i>Jumper coolie.</i>	Gold	The deceased and another coolie began work after blasting without taking down the stone loosened by the blast, when a piece of rock fell on him and fractured his skull. Inspection and inquiry made.
20	9th April, 3-20 P.M.	Serampur Mine, Giridih P. O., Hazratbagh, Bengal.	East Indian Railway Co.	Barju Singh, (m.), 35, <i>Coal-cutter.</i> Gangia Ghat- warin, (f.), 17, Sonia Ghat- warin, (f.), 16, <i>Coal-carriers.</i>	Coal	While the three deceased were working under propped roof coal, the coal pulled over from two slips and a large quantity fell on them and smothered them to death. <i>See Report, page 8.</i> Inspection and inquiry made.
21	30th May, 11 A.M.	East Ledo Mine, Margherita P. O., Lakhimpur, Eastern Bengal and Assam.	Assam Rail- ways and Trading Co., Ld.	Gonjoo Rout, (m.), 32, <i>Basket-filler.</i>	Coal	Killed by a fall of coal.
22	8th June, 10-15 A.M.	Banksimulla Mine, Charanpur P. O., Burdwan, Bengal.	Bengal Coal Co., Ld.	Lakhu Majhi, (m.), 30, <i>Coal-cutter.</i>	Coal	He was cutting roof-coal when a mass of coal and stones fell upon him and killed him. <i>See Report, page 8.</i> Inspection and inquiry made.
23	21st June, 12 Noon.	Gopalchak Mine, Jharia P. O., Manbhum, Bengal.	Gopalchak Coal Co., Ld.	Sudin Abir, (m.), 35, <i>Coal-cutter.</i>	Coal	Deceased and another coal-cutter were repairing a level with an unsound coal roof in company with a gang of repairers. The roof showed signs of falling and the repairers withdrew. The coal-cutters attempted to finish filling a tub when a fall of about 9' x 5' x 2' 9" occurred, killing deceased on the spot. <i>See Report, page 8.</i> Inspection and inquiry made.
24	23rd June, 1 P.M.	East Ledo Mine, Margherita P. O., Lakhimpur, Eastern Bengal and Assam.	Assam Rail- ways and Trading Co., Ld.	Biput, (m.), 22, <i>Coal-cutter.</i>	Coal	About three tons of coal fell without warning and suffocated him.

APPENDIX I—contd.

Fatal Accidents, 1908—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.	Cause of accident and remarks.
FALLS OF ROOF AND SIDES—contd.						
Falls of roof—contd.						
25	10th July, 11-30 A.M.	New Tetturia Mine, Katrasgarh P. O., Manbhum, Bengal.	New Tetturia Coal Co., Ld.	Jemahir Bhuia, (m.), 25, Fitter's coolie.	Coal	He was working with some fitters, putting on a pipe, when a stone 9' x 8' x 6' suddenly fell, killing him instantly. Inspection and inquiry made.
26	11th July, 6 A.M.	Sodepur Mine, Sitarampur P. O., Burdwan, Bengal.	Bengal Coal Co., Ld.	Dali Kunda, (m.), 37, Assistant sirdar.	Coal	He was about to withdraw a prop when a slight weighing of the roof was heard. He waited and then pushed the prop. This dislodged a large piece of coal which fell on him injuring him so severely that he died four days later. See Report, page 9. Inspection and inquiry made.
27	15th July, 1 P.M.	Bhagaband Mine, Jharis P. O., Manbhum, Bengal.	Borrea Coal Co., Ld.	Etwari Kole, (m.), 35, Miner. Radhia Bho- bitain, (f.), 22, Coal-carrier.	Coal	They went through a fence into some old workings and began to out coal when a fall occurred 23' x 11' x 6" killing them instantly. Inspection and inquiry made.
28	25th July, 5 A.M.	Tikak Mine, Margherita P. O., Lakhimpur, Eastern Bengal and Assam,	Assam Rail- ways and Trading Co., Ld.	Dhijro Gore, (m.), 32, Basket-filler.	Coal	Killed by a fall of roof while filling a basket.
29	14th August, 11-30 A.M.	New Tetturia Mine, Katrasgarh P. O., Manbhum, Bengal.	New Tetturia Coal Co., Ld.	Jhari Gope, (m.), 24, Miner.	Coal	Killed by a fall of roof. Inspec- tion and inquiry made.
30	22nd August, 9 P.M.	Sijua Mine, Sijua P. O., Manbhum, Bengal.	Sijua Coal Co., Ld.	Kishni Majhain, (f.), 27, Coal-carrier.	Coal	She was sitting in a gallery when a small quantity of roof coal fell on her. She received no injuries but died soon after from shock. Inspection and inquiry made.
31	16th Septem- ber, 10-30 A.M.	Takrai Mine, Khost Colliery, Khost P. O., Sibi, Baluchistan.	North-Western Railway.	Khudadad, (m.), 25, Coolie.	Coal	The deceased and two others were going down a gateway to with- draw some timber when a heavy fall occurred burying him. He was suffocated before he could be liberated. Inspection and inquiry made.
32	22nd Septem- ber, 9 A.M.	Bhagaband Mine, Jharis P. O., Manbhum, Bengal.	Borrea Coal Co., Ld.	Roghu Kora, (m.), 25, Propping carpenter.	Coal	Killed by a fall of roof while attending a call of nature in a fenced off place. Inspection and inquiry made.
33	27th Septem- ber, 8 P.M.	Bejdih Mine, Sitarampur P. O., Burdwan, Bengal.	Maeneill and Co.	Baya Bauri, (m.), 40, Miner.	Coal	While working in a gallery the stone roof fell and knocked the deceased into the bottom of the shaft 9' 6" below, killing him instantly. Inspection and inquiry made.
34	29th Septem- ber, 11-30 A.M.	Serampur Mine, Girdih P. O., Hazaribagh, Bengal.	East Indian Railway Co.	Subratti Meah, (m.), 22, Miner.	Coal	Six men were sitting when a pane of sandstone 9" thick fell from the roof and in rebounding struck them, causing serious injuries to four, one of whom, Subratti, subsequently died. The other two received slight injuries. Inspection and inquiry made.

APPENDIX I—contd.

Fatal Accidents, 1908—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.	Cause of accident and remarks.
FALLS OF ROOF AND SIDES—contd.						
Falls of roof—contd.						
35	6th October, 12 Noon.	Kendwadih Mine, Jharra P. O., Manbhurn, Bengal.	Hariladh Coal Co., Ltd.	Garu Kahar, (m.), 55, Kokil Kahar, (m.), 13, <i>Stone-cleaners.</i>	Coal	They were cleaning up stones from a previous fall when a stone 4' by 4" in the centre to 0" at the rim fell upon them. Garu died in 8 hours, and Kokil in 8 days' time. Inspection and inquiry made.
36	20th October, 4-20 P.M.	Tikak Mine, Margherita P. O., Lakhimpur, Eastern Bengal and Assam.	Assam Rail- ways and Trading Co., Ltd.	Alladi, (f.), 24, <i>Basket- filler.</i>	Coal	She was filling a basket when a fall from the roof completely buried and suffocated her to death.
37	21st November, 3 A.M.	North Kustore Mine, Kusunda P. O., Manbhurn, Bengal.	Raniganj Coal Association, Ltd.	Gokul Mahato, (m.), 30, Bhukan Mahato, (m.), 25, Gurdial Mahato, (m.), 22, Tulu Mahato, (m.), 20, Horil Mahato, (m.), 35, Bhikan Singh, (m.), 18, Tanu Singh, (m.), 35, <i>Coal-cutters.</i>	Coal	They went beyond a fence for the purpose of filling up some loose coal, and the roof, which was insecure, fell upon them and killed them. See Report, page 9. Inspection and inquiry made.
38	25th November, 5 P.M.	North Kustore Mine, Kusunda P. O., Manbhurn, Bengal.	Raniganj Coal Association, Ltd.	Amir Meah, (m.), 35, Khosru Meah, (m.), 35, Raji Meah, (m.), 45, Huru Meah, (m.), 40, Bhadi Meah, (m.), 40, Mohor Meah, (m.), 40, Jumun Meah, (m.), 22, <i>Coal-cutters.</i> Jaffir Bibi, (f.), 22, <i>Coal-carrier.</i>	Coal	They were taking out a pillar of coal and had proceeded about 6 feet in the bottom part of the seam, when the top coal came away to a parting, and pushing over the timber fell upon them and killed them. See Report, page 9. Inspection and inquiry made.
39	16th December, 2-30 A.M.	Mucheridih Mine, Mohoda P. O., Manbhurn, Bengal.	Mucheridih Coal Co., Ltd.	Bossea Passin, (f.), 13, <i>Coal-carrier.</i>	Coal	She was carrying coal for her father who deliberately left the place assigned to him and went in to a rise gallery nearer the tubs. He had cut a few basket leads when a fall 5' 8" x 3' 6" x 1' 2" occurred killing the child instantaneously. See Report, page 10. Inspection and inquiry made.
40	17th December, 8 P.M.	Muralidih Mine, Mohoda P. O., Manbhurn, Bengal.	Bengal Coal Co., Ltd.	Makbani Hari, (f.), 23, <i>Coal-carrier.</i>	Coal	She was filling her basket in a gallery which was being widened, when a piece of roof 3' 8" x 2' 8" x 2" fell on her killing her instantaneously. See Report, page 10. Inspection and inquiry made.
41	19th December, 3 A.M.	Chanoh Mine, Barakar P. O., Manbhurn, Bengal.	Bengal Coal Co., Ltd.	Lohi Rai, (m.), 34, <i>Miner.</i>	Coal	Killed by a fall of roof stone whilst robbing coal in a fenced off gallery. Inspection and inquiry made.

APPENDIX I—*contd.*Fatal Accidents, 1908—*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.	Cause of accident and remarks.
----------------	----------------------------	-----------------------------	----------------	--	-------------------------	--------------------------------

FALLS OF ROOF AND SIDES—*contd.*

(b) Falls of side—(31 deaths).

42	8rd January, 5 P.M.	Manehti Mine, Rewari P. O., Gurgaon, Panjab.	Sohan Lall	Deda Chamar, (m.), 40, Quarryman.	Slate	The deceased was preparing to dislodge a piece of slate weighing about two tons when it suddenly fell on him and crushed his shoulder so severely that he died the next day. Inspection and inquiry made.
43	10th January, 11 A.M.	Gansadih Mine, Kusunda P. O., Manbhum, Bengal.	Prasanna Kumar Roy.	Teku Teli, (m.), 36, Miner.	Coal	The deceased was cutting at a pillar when a piece of coal, 9' x 2' 10" x 2' 6", fell from a muddy slip killing him instantaneously. Inspection and inquiry made.
44	22nd January, 1 P.M.	Baraboni Mine, Asansol P. O., Burdwan, Bengal.	Baraboni Coal Concern. Ld.	Kabi Kora, (m.), 32, Miner.	Coal	The deceased was robbing a pillar, and on undercutting a piece of coal it fell on him and killed him. Inspection and inquiry made.
45	24th January, 3-30 P.M.	Salgadih Mine, Tieri P. O., Hazariabagh, Bengal.	Mica Export Co.	Dilu Rai, (m.), 35, Ganpat Tewari, (m.), 30, Coolies.	Mica	A sudden fall of side took place killing Dilu and seriously injuring Ganpat. The latter died on the 26th January.
46	10th February, 3 P.M.	Murwara Mine, Katni P. O., Jabalpur, Central Provinces.	R. Danne and Sons.	Bahadur, (m.), 28, Pachal, (m.), 29, Dhantali, (m.), 33, Jawaliez, (m.), 30, Bahora, (m.), 28, Teji Kurmi, (m.), 28, Manhodi, (m.), 30, Quarrymen.	Lime- stone.	They were working at the bottom of a quarry and were buried by a fall of the eastern wall. Two others were injured. See Report, page 10. Inspection and inquiry made.
47	17th February, 9 A.M.	Garividi Mine, Vizianagram P. O., Vizagapatam, Madras.	Bobbili Mining Co., Ld.	T. Appadu, (m.), 13, Quarryman.	Manganese	Three men were excavating in a pit said to be about 5 feet deep, when one of the sides fell in on them. Deceased was suffocated and the other two men bruised. Inspection and inquiry made.
48	12th May, 4-45 P.M.	Munzar Mine, Kamptee P. O., Nagpur, Central Provinces.	Central Pro- vinces Pros- pecting Syn- dicate, Ld.	Ramlah, (f.), 25, Coolie.	Manganese	She was working near the top of a bench 20' high when a boulder fell a distance of about 3' and struck her, killing her on the spot. Inspection and inquiry made.
49	14th May, 5-30 P.M.	Murwara Mine, (Plot No. 1129), Murwara P. O., Jabalpur, Central Provinces.	A. H. Wheeler and Co.	Chuna Chamar, (m.), 25, Quarryman.	Limestone	A gang of men were breaking up a large mass of slipped earth when about ½ a ton of it became detached and rolled on them pinning down two men, one of whom, Chuna, died subsequently from the effects of the injuries received. Inspection and inquiry made.
60	16th May, 4-15 P.M.	Kandri Mine, Kamptee P. O., Nagpur, Central Provinces.	Central Pro- vinces Syn- dicate, Ld.	Mangal, (m.), 35, Coolie.	Manganese	He and others were clearing up the floor of a well which had been newly sunk, when a fall of side took place burying and suffocating deceased. Inspection and inquiry made.

APPENDIX I—contd.

Fatal Accidents, 1908—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.	Cause of accident and remarks.
FALLS OF ROOF AND SIDES—contd.						
(b) Falls of side—contd.						
51	26th May, 1 P.M.	Jamadoba Mine, Jharia P. O., Manbhum, Bengal.	Indian Col- lieries Syn- dicate, Ld.	Nayka Manjhi, (m.), 32, Miner.	Coal	He was found dead under about a ton and a half of coal which had fallen from a corner of a pillar. See Report, page 11. Inspection and inquiry made.
52	11th June, 1 A.M.	Kendwadih Mine, Kusunda P. O., Manbhum, Bengal.	East Indian Coal Co., Ld.	Modhu Turi, (m.), 28, Miner.	Coal	He left his proper working place and with a woman went into a disused gallery nearly 400 feet away, took down the fencings and cut away the corner of a pillar. A fall about 11'x6'x8' fell on him, killing him instantly. The woman was injured slightly. Inspection and inquiry made.
53	11th June, 4 P.M.	Mouthdih Mine, Sitarampur P. O., Burdwan, Bengal.	A. C. Chatterji	Nitu Baurini, (f.), 30, Earth-carrier.	Coal	Eight or nine people were resting under a cliff 10 feet high formed by the overburden, when about half a ton of clay fell killing Nitu on the spot and slightly injuring two others. See Report, page 11. Inspection and inquiry made.
54	10th July, 3 P.M.	Kustore Mine, Kusunda P. O., Manbhum, Bengal.	Raniganj Coal Association, Ld.	Gope Bauri, (m.), 50, Miner.	Coal	He had started to split the pillar, with a view to its being got and goafed, and liberated a piece of its side 17'x7'x4' which fell upon him killing him instantly. Inspection and inquiry made.
55	26th August, 2 P.M.	Birengpur Mine, Nirshachati P. O., Manbhum, Bengal.	Annapurna Coal Co.	Hemu Singh, (m.), 19, Coal-cutter.	Coal	While robbing the side of a pillar in a fenced off place a slab of coal 7' 6"x2' 0"x18" fell on him and cut him about the head so severely that he died three hours later. See Report, page 11. Inspection and inquiry made.
56	2nd October, 5 P.M.	Sudamdih Mine, Bhujudih P. O., Manbhum, Bengal.	Sudamdih Coal Co., Ld.	Kitu Bauri, (m.), 20, Kartik Bauri, (m.), 30, Coal-cutters. Peli Baurini, (f.), 25, Coal-carrier.	Coal	Kitu and Kartik were cutting coal from the overhanging side of an old quarry instead of from their proper working place, when a fall of side occurred, killing them, and Peli almost instantaneously. Inspection and inquiry made.
57	10th October, 8 P.M.	Taroktan Mine, Mogok P. O., Ruby Mines District, Burma.	The Burma Ruby Mines, Ld.	Paw Shin Paw, (m.), 28, Coolie.	Ruby	Broke his right leg by a fall of side through the effects of which he died on the 14th October.
58	16th October, 7-30 P.M.	Lodna Mine, Jharia P. O., Manbhum, Bengal.	Lodna Colliery Co., Ld.	Lukhi Majhain, (f.), 30, Slack-carrier.	Coal	She was with others engaged in floor cutting and removal of slack, and with them went into a level which had been marked off as dangerous, when a piece of the side pillar fell on them. Lukhi was killed instantly and another man injured. Inspection and inquiry made.
59	2nd December, 1-30 P.M.	Salanpur Mine, Sitarampur P. O., Burdwan, Bengal.	Borrea Coal Co., Ld.	Karohowa Marpi, (m.), 21, Coal-cutter.	Coal	Deceased was dressing down some overhanging side 8' high, lying against a slip, when it fell and knocked him down injuring his spine. He died two days later. Inspection and inquiry made.

APPENDIX I—*contd.*Fatal Accidents, 1908—*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.	Cause of accident and remarks.
----------------	----------------------------	-----------------------------	----------------	--	-------------------------	--------------------------------

FALLS OF ROOF AND SIDES—*concl'd.*(b) Falls of side—*concl'd.*

60	16th December, 10 A.M.	Jogta Mine, Sijua P. O., Manbhum, Bengal.	Agabeg Brothers.	Dhanwa Kamin, (f.), 46, Coal-carrier.	Coal	She was with a miner who was cutting floor coal when a pillar collapsed and rolled down on to her killing her instantly. Inspection and inquiry made.
61	18th December, 10-30 P.M.	Kusunda Mine, Kusunda P. O., Manbhum, Bengal.	Kusunda and Nayadi Collieries, Ld.	Koili Mohulin, (f.), 27, Jimi Mohulin, (f.), 32, Sugia Mohulin, (f.), 44, Coal-carriers.	Coal	Killed by the fall of a large portion of a pillar corner. See Report, page 11. Inspection and inquiry made.

IN SHAFTS—(27 deaths).

Ropes and chains breaking—(1 death).

62	1st April, 12 Noon.	Mysore Mine, Kabulyatkatti P. O., Dharwar, Bombay.	Mysore Gold Mining Co., Ld.	Hanamantha, (m.), 25, Drilling coolie.	Gold	He was drilling in the bottom of the shaft when the winding rope broke and the skip ran amain to the bottom and struck him, killing him instantly. Inspection and inquiry made.
----	---------------------	--	-----------------------------	--	------	---

Whilst ascending and descending by machinery—(9 deaths).

63	3rd February, 7 P.M.	Dishargah Mine, Dishargah P. O., Burdwan, Bengal.	Equitable Coal Co., Ld.	Jhaku Muchi, (m.), 22, Trammer. Jugal Muchi, (m.), 28, Signalmen. Juna Bauri, (m.), 38, Roller coolie.	Coal	The three deceased and three others were being lowered into a pit when one end of the cage, while in motion, got caught, and the shock of the momentary stoppage caused the three deceased to fall out to the bottom of the pit. Death was instantaneous. Inspection and inquiry made.
64	15th March, 9-30 A.M.	Sanatoria Mine, Dishargah P. O., Burdwan, Bengal.	Bengal Coal Co., Ld.	Joyram Teli, (m.), 30, Coal-cutter.	Coal	The deceased along with others was being raised up a shaft. He was in a sitting posture and supporting himself in that position by leaning on a stick; the stick slipped, and he fell out of the cage and down the pit and was killed instantaneously. Inspection and inquiry made.
65	26th June, 3-30 P.M.	Jharis Khas Mine, Jharis P. O., Manbhum, Bengal.	Standard Coal Co., Ld.	Ganga Chamarin, (f.), 14, Coal-carrier.	Coal	She and four other women were being lowered down a shaft in a cage, when she fell out to the bottom of the pit and was killed instantly. Inspection and inquiry made.
66	21st December, 5-30 P.M.	Kanohka Mine, Kalipabari P. O., Burdwan, Bengal.	Damra Coal Co., Ld.	Kusmi Baurini, (f.), 22, Sukhi Baurini, (f.), 23, Abhoy Baurini, (f.), 28, Bidhu Baurini, (f.), 22, Coal-carriers.	Coal	They were ascending a shaft in a bucket, and as they reached the surface the banking coolies pushed over the trolley too quickly. One of the hooks of the bucket caught under the edge of the trolley. As the bucket ascended it released itself with a violent jerk and swung across the shaft, where it struck the planking. This caused one of the chains to become detached with the result that the women were precipitated to the bottom of the shaft and killed on the spot. Inspection and inquiry made.

APPENDIX I—contd.

Fatal Accidents, 1908—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.	Cause of accident and remarks.
IN SHAFTS—contd.						
Falling into the shaft from the surface—(6 deaths).						
67	6th March, 12-30 A.M.	Koudwadih Mine, Kusunda P. O., Manbhum, Bengal.	East Indian Coal Co., Ltd.	Bhaglu Dhobi, (m.), 20, Trolleyman.	Coal	Killed by falling down the pit from the surface. <i>See Report, page 12.</i> Inspection and inquiry made.
68	19th June, 2-30 P.M.	Jharia Khas Mine, Jharia P. O., Manbhum, Bengal.	Standard Coal Co., Ltd.	Jhamun Meab, (m.), 25, Trolleyman.	Coal	He was standing on a trolley which was over the pit, and when the trolley was drawn back, he lost his balance and fell over the front of the trolley into the pit, 110 feet deep, and was killed instantly. <i>See Report, page 12.</i> Inspection and inquiry made.
69	30th July, 6 P.M.	Brahmanbarari Mine, Jharia P. O., Manbhum, Bengal.	East Indian Coal Co., Ltd.	Rasu Singh, (m.), 22, Stone-cutter.	Coal	He appears to have jumped over a fence into a pit, 425 feet deep, probably under the influence of "ganja" and was killed instantly. Inspection and inquiry made.
70	26th August, 9 P.M.	Pottery Mine, Raniganj P. O., Burdwan, Bengal.	Barn & Co.	Jugal Dass, (m.), 17, Coal stocking coolie.	Coal	While he was sleeping near the pit at night it began to rain, and in running for shelter he ran into the pit and was killed. Inspection and inquiry made.
71	12th September, 2 A.M.	Lutohipur Mine, Sitarampur P. O., Burdwan, Bengal.	Lutohipur Coal Co., Ltd.	Bhiku Turi, (m.), 29, Coal-cutter.	Coal	Deceased was impatient to enter the cage, and instead of waiting for the pit mouth fence bar to be lifted, it is surmised that he crawled underneath it, and mistaking which side the cage was on fell down a shaft 368 feet deep and was killed instantly. <i>See Report, page 12.</i> Inspection and inquiry made.
72	25th September, 11 A.M.	Banatakola Mine, Jharia P. O., Manbhum, Bengal.	New Beerbhum Coal Co., Ltd.	Monger Mahato, (m.), 32, Trolleyman.	Coal	He fell out of a trolley to the bottom of the shaft while attempting to disengage a bucket which had got caught in another while being lifted. Inspection and inquiry made.
Falling from part of the way down—(3 deaths).						
73	7th January, Midday.	Taroktan Mine, Mogok P. O., Ruby Mines District, Burma.	Burma Ruby Mines, Ltd.	Po Thlu, (m.), 21, Greaser.	Ruby	He was about 40 feet from the bottom of the shaft attending to the pump, when his clothes got caught in the revolving shaft, and he was thrown off the platform to the bottom of the shaft, and fractured his skull.
74	31st January, 12-10 A.M.	Mysore Mine, Kabulayatkatti P. O., Dharwar, Bombay.	Mysore Gold Mining Co., Ltd.	Krishami, (m.), 26, Blaster maistry.	Gold	Whilst ascending a ladder he stopped 40' below the surface to relight his candle, and in doing so he fell to the bottom and received injuries from which he died a few days later. Inspection and inquiry made.
75	17th February, 12-30 A.M.	Salanpur Mine, Sitarampur P. O., Burdwan, Bengal.	Borrea Coal Co., Ltd.	Behari Muchi, (m.), 30, Fitter.	Coal	The deceased with other men was working in the pit shaft. He was pulling aside a capstan rope by which a heavy pump valve chamber was being lifted, when the rope suddenly began to lower, and the deceased not letting go his hold in time overbalanced himself, fell down the pit and was killed instantly.

APPENDIX I—contd.

Fatal Accidents, 1908—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.	Cause of accident and remarks.
----------------	----------------------------	-----------------------------	----------------	--	-------------------------	--------------------------------

IN SHAFTS—contd.

Falling from part of the way down—contd.

76	15th May, 4 P.M.	Gladstone Mine, Mahulia P. O., Sighghum, Chota Nagpur.	Cape Copper Co., Ltd.	Thomas Ralph, (m.), 38, Miner.	Copper	The deceased was going down in a kibble, and it is presumed, that in getting out at the 135 feet level he slipped and fell to the bottom and was killed instantly. Inspection and inquiry made.
77	15th June, 8-30 P.M.	Sodepur Mine, Sitarampur P. O., Burdwan, Bengal.	Bengal Coal Co., Ltd.	Lolita Baurini, (f.), 45, Water-bailing kamin.	Coal	The deceased and another woman were descending an up cast shaft, 417 feet deep, when she fell out of the cage to the bottom. Inspection and inquiry made.

Things falling from the surface—(3 deaths).

78	19th March, 8-35 P.M.	East Kuordih Mine, Kalipahari P. O., Burdwan, Bengal.	East Kuordih Coal Co., Ltd.	Protap Gope, (m.), 35, Coolie.	Coal	Whilst six men were being lowered down the shaft on to a scaffold the winding pulley fell owing to one of the supporting beams drawing out. The scaffold was demolished, and the cage fell to the bottom with the result that the deceased's spine was fractured and two of the other men were seriously injured. See Report, page 12. Inspection and inquiry made.
79	17th May, 12-30 A.M.	Sunpur Mine, Chora P. O., Burdwan, Bengal.	Ondal Coal Co., Ltd.	Yargar Singh, (m.), 18, Sinker.	Coal	While the deceased and three others were working at the bottom of a sinking shaft, 170 feet in depth, an iron crowbar fell from the surface and struck him on the forehead. He died six days later. Inspection and inquiry made.
80	8th June, 10 A.M.	Lutohipur Mine, Sitarampur P. O., Burdwan, Bengal.	Lutohipur Coal Co., Ltd.	Hira Bauri, (m.), 31, Coal-cutter.	Coal	The deceased and two others were cleaning out the sump of a newly sunk shaft when a 7" bolt fell from the head gear and struck him on the leg fracturing it; gangrene supervened, and he died fifteen days after. See Report, page 13. Inspection and inquiry made.

Miscellaneous—(3 deaths).

81	8th July, 2 A.M.	Bhowra Mine, Jharla P. O., Manbhum, Bengal.	Eastern Coal Co., Ltd.	Meghu Mahato, (m.), 25, Pump khalassi.	Coal	He went down the shaft on a vertical rope ladder at night to the pump, and presumably fell as he was coming up again, sustaining a fractured skull and being drowned. Inspection and inquiry made.
82	25th August, 2 P.M.	Dishargarh Mine, Dishargarh P. O., Burdwan, Bengal.	Equitable Co Co., Ltd.	Sham Behari Lalla, (m.), 49, Water-bailer.	Coal	The deceased fell from an unfenced platform at a side entrance to a working shaft, a distance of 106 feet to the pit bottom, and was killed instantly. See Report, page 13. Inspection and inquiry made.
83	9th October, 7 P.M.	Hosur Mine, Kabulastkatti P. O., Dharwar, Bombay.	Hosur Gold Mines of Dharwar, Ltd.	Sonjivi (m.), 35, Coolie.	Gold	While the deceased was working at the bottom of a shaft a skip which was being hoisted up fell on him owing to an accident occurring to the winding engine. He was killed instantly.

APPENDIX I—contd.

Fatal Accidents, 1908—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.	Cause of accident and remarks.
BY EXPLOSIVES—(8 deaths).						
84	21st May, 10-40 A. M.	Bitagarha Mine, Kurharbari Colliery, Giridih P. O., Hazariabagh, Bengal.	East Indian Railway Co.	Teju Meah, (m.), 80, Coal-cutter.	Coal	He was dressing back, with a hammer, the sides of a road in which blasting had been done, when an explosion occurred and flying pieces of stone struck him inflicting wounds from which he died shortly after. <i>See Report, page 13.</i> Inspection and inquiry made.
85	23rd May, 1 P.M.	Mysore Mine, Kabulayatkatti P. O., Dharwar, Bombay.	Mysore Gold Mining Co., Ld.	Raja, (m.), 29, Masonry, Mayan, (m.), 32, Drilling coolie.	Gold	Raja and twelve men were working in a shaft, he attempted to clean out an old shot hole when an explosion took place, apparently from a misfired shot. Raja and Mayan were killed and two others injured. Inspection and inquiry made.
86	6th August, Midday.	Kashoi Mine, Quetta P. O., Quetta Pishin, Baluchistan.	C. R. Lindsey.	Jan Mahomed, (m.), 40, Jemadar.	Chromite	After three shots had been fired seven men went to clear away the rubbish when they found the side settling down. They hurried back, but two men were too late and were caught by the collapsing wall. One was killed outright and the other injured seriously.
87	10th October, 3 P.M.	Kandri Mine, Kamptee P. O., Nagpur, Central Provinces.	Central Provinces Prospecting Syndicate, Ld.	Saman, (m.), 50, Quarryman.	Manganese	He commenced drilling in a shot hole which was supposed to have blown out and an explosion resulted. He died two days later. Inspection and inquiry made.
88	13th October, 9 A.M.	Hosur Mine, Kabulayatkatti, P. O., Dharwar, Bombay.	Dharwar Gold Mines Co., Ld.	Kumbari Appu, (m.), 80, Drilling coolie.	Gold	He and two others were boring into a misfired socket when the charge exploded and injured him so severely that he died a few days later.
89	23rd December, 5-45 P.M.	Saltore Mine, Dishargarb P. O., Manbhum, Bengal.	Saltore Coal Co., Ld.	Jadu Singh, (m.), 32, Jeo Singh, (m.), 29, Sinkers.	Coal	The deceased were drilling a shot hole at the bottom of a sinking shaft unconscious of the presence of a misfired shot 4½' away, when the latter exploded and injured them so badly that they died a few days later. <i>See Report, page 13.</i> Inspection and inquiry made.

IRRUPTIONS OF WATER OR FALLING INTO WATER.—(2 deaths).

90	23rd May, 8-30 P.M.	Charanpur Mine, Charanpur P. O., Burdwan, Bengal.	Reliance Coal Co., Ld.	Bathu Mahalin, (f.), 80, Surface labourer.	Coal	The deceased was subject to epileptic fits, and it is supposed that whilst bathing on the steps of the tank she had a fit, fell into the water, and was drowned. Inspection and inquiry made.
91	27th August, 9 A.M.	Baraboni Mine, Asansol, P. O., Burdwan, Bengal.	Baraboni Coal Concern, Ld.	Dhona Bauri, (m.), 45, Coal-cutter.	Coal	Whilst standing on a pump scaffold and cutting a niche in the wall of the shaft he fell into the water 80 inches below and was drowned. Inspection and inquiry made.

APPENDIX I—contd.

Fatal Accidents, 1908—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.	Cause of accident and remarks.
HAULAGE—(22 deaths).						
92	27th January, 2 P.M.	Kuordih Mine, Kalipahari P. O., Burdwan, Bengal.	Kuordih Coal Co., Ltd.	Karu Khairs, (m.), 56, Coal-cutter.	Coal	Whilst a train of five tubs was being raised a slope of 1 in 8, a coupling chain broke and four tubs ran amain. The "trailer" derailed the tubs, but they rolled down the incline and struck deceased killing him on the spot. Inspection and inquiry made.
93	28th January, 9-30 P.M.	Ena Mine, Dhanbaid P. O., Manbhum, Bengal.	North West Coal Co., Ltd.	Chobi Lal, (m.), 35, Miner.	Coal	Six tubs were being lowered into an incline when the two front ones ran amain and over deceased injuring him. He died later on. Inspection and inquiry made.
94	12th February, 1 P.M.	West Ledo Valley Mine, Margherita P. O., Lakhimpur, Eastern Bengal and Assam.	Assam Rail- ways and Trading Co., Ltd.	Rania, (m.), 26, Miner.	Coal	He was knocked down and killed by two empty tubs which ran amain.
95	14th February, 7 A.M.	West Ledo Valley Mine, Margherita P. O., Lakhimpur, Eastern Bengal and Assam.	Assam Rail- ways and Trading Co., Ltd.	Kartio, (m.), 24, Hookman.	Coal	A loaded tub ran amain and dashed against an empty tub which in its turn knocked the man down and injured him so seriously that he died shortly after.
96	27th March, 2 A.M.	Murulidih Mine, Mohoda P. O., Manbhum, Bengal.	Bengal Coal Co., Ltd.	Girdhari Roy, (m.), 21, Tub-pusher.	Coal	Six tubs were being lowered down an incline when the three front ones got away and ran wild down the incline, killing deceased. Inspection and inquiry made.
97	8th April, 6 P.M.	No. 8 Mine, Khost Colliery, Khost P. O., Sibi, Baluchistan.	North-Western Railway.	Wali, (m.), 23, Tram-coolie.	Coal	The deceased with two others was engaged shunting empty tubs at the bottom of a haulage road, when the drawbar of the first tub of a loaded set being raised at the time broke and allowed the loaded tubs to dash into the bottom. Wali was killed outright and the others slightly injured. Inspection and inquiry made.
98	1st May, 8 A.M.	Bhalgora Mine, Jharia P. O., Manbhum, Bengal.	Bhalgora Coal Co., Ltd.	Somor Kahar, (m.), 36, Miner.	Coal	He was walking down a haulage plane which was not used as a travelling road and was run over by the empty journey going down. See Report, page 14. Inspection and inquiry made.
99	31st May, 6-30 A.M.	Namdang Mine, Margherita P. O., Lakhimpur, Eastern Bengal and Assam.	Assam Rail- ways and Trading Co., Ltd.	Baroda, (f.), 30, Coal-carrier.	Coal	Whilst on her way to work she was run over and killed by a train of full tubs.
100	4th July, 6 A.M.	Chinohuria Mine, Asansol P. O., Burdwan, Bengal.	New Beerbhum Coal Co., Ltd.	Falarie Majhi, (m.), 20, Shunter.	Coal	Three tubs whilst being lowered down a slope stopped on a flattened part. Falarie went up the slope and pushed them over the flat. After that, it is presumed, he rode on the ropes behind the tubs and was thrown off with such violence that he sustained a fractured skull and internal injuries. He died three days later. Inspection and inquiry made.
101	10th August, 1-30 A.M.	Barkui Mine, Penoh Valley P. O., Chhindwara, Central Provinces.	Penoh Valley Coal Co., Ltd.	Gayadin Kachi, (m.), 27, Shot-firer.	Coal	He was sleeping at the side of the haulage incline, when a train of six empty tubs became derailed and ran over him causing injuries from the effects of which he died shortly after. Inspection and inquiry made.

APPENDIX I—*contd.*Fatal Accidents, 1908—*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.	Cause of accident and remarks.
HAULAGE—<i>contd.</i>						
102	24th August, 11-30 A.M.	Bagdiggi Mine, Jharia P. O., Manbhum, Bengal.	C. J. Smith.	Mungia Gowalin, (f.), 45, Tottvie Gowalin, (f.), 45, Road-cleaners.	Coal	A full journey had been brought to the surface and the tubs uncoupled, when one ran down the incline and killed the two women. See Report, page 14. Inspection and inquiry made.
103	6th September, 5-30 A.M.	Takrai Mine, Khost Colliery, Khost P. O., Sibi, Baluchistan.	North-Western Railway.	Bilar, (m.), 30, Coolie.	Coal	He and two others were riding on an empty tub which was being hauled up, when deceased, wishing to see how far they were from the entrance, raised his head which came in contact with a roof bar. He sustained a fracture of the skull which caused his death. Inspection and inquiry made.
104	10th September, 10 A.M.	Banakuri Mine, Chowkidanga P. O., Burdwan, Bengal.	South Kenda Coal Co.	Sonritha Bauri, (f.), 17, Coolie.	Coal	She attempted to jump on to a moving train of tubs, but slipped and fell on the rail. Two of the tubs ran over her and fractured an arm. She died a month later from blood poisoning. Inspection and inquiry made.
105	7th October, 5 P.M.	Damudapur Mine, Naudi P. O., Burdwan, Bengal.	Bengal Coal Co., Ltd.	Mangali Majhain, (f.), 36, Coal-filler.	Coal	She was knocked over and killed by a full tub which ran amain. Inspection and inquiry made.
106	8th October, 11 A.M.	Bhutgoria Mine, Jharia P. O., Manbhum, Bengal.	Aldih Coal Co., Ltd.	Bajedas Panika, (m.), 40, Miner.	Coal	Two front tubs out of a journey of three ran wild down an incline before being coupled to the third tub and ran over Bajedas and killed him. See Report, page 14. Inspection and inquiry made.
107	21st October, 5 P.M.	Chinchoria Mine, Asansol P. O., Burdwan, Bengal.	Baraboni Coal Concern, Ltd.	Nomi Muchin, (f.), 45, Niti Muchin (f.), 30, Bhupi Muchin, (f.), 60, Bailing kamins.	Coal	Whilst descending an incline, with only one lighted lamp, nine persons were met by an ascending train of tubs and in the confusion which followed four of them were seriously injured, three of whom subsequently died. Inspection and inquiry made.
108	19th November, 9-30 A.M.	Sendra Mine, Sijua P. O., Manbhum, Bengal.	Sendra Coal Co., Ltd.	Bhut Nath Dutt, (m.), 25, Pit sticar.	Coal	He was riding on the front tub of a full journey, which was being hauled up, when he fell off and one or two tubs went over his leg. He died on the 22nd November after amputation of the leg. Inspection and inquiry made.
109	12th December, 6-30 P.M.	Mudidib Mine, Sijua P. O., Manbhum, Bengal.	Reliance Coal Co., Ltd.	Dhunu Singh, (m.), 25, Miner.	Coal	As a journey of three tubs was being brought up a surface incline the frame of the front tub to which the rope was directly attached broke, and the tubs ran back into the mine injuring two men, one of whom, Dhunu, died subsequently under operation. Inspection and inquiry made.

APPENDIX I—*contd.*Fatal Accidents, 1908—*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.	Cause of accident and remarks.
----------------	----------------------------	-----------------------------	----------------	--	-------------------------	--------------------------------

HAULAGE—*concl.*

110	28th December, 3-45 P.M.	Sudamdih Mine, Bbujudih P. O., Manbhurn, Bengal.	Empire Coal Co., Ltd.	Behari Mahato, (m.), 18, Coal-carrier.	Coal	As a journey of six full tubs was reaching the top of the brow the drawbar of the third tub from the front broke, and the four tubs ran back wild into the mine, killing deceased who was standing at the mouth of a level. See Report, page 14. Inspection and inquiry made.
-----	-----------------------------	---	--------------------------	--	------	---

BY UNDERGROUND MACHINERY (2 deaths).

111	5th February, 4-30 P.M.	Baraboni Mine, Asansol P. O., Burdwan, Bengal.	New Beerbhun Coal Co., Ltd.	Amrit Passi, (m.), 24, Underground hookman.	Coal	He was adjusting some rope which had got loosened from the engine drum when he was caught by the legs and carried over the drum. His leg was subsequently amputated, but he died two days later. Inspection and inquiry made.
112	28th June, 5-25 P.M.	Panohgatoia Mine, Sitarampur P. O., Burdwan, Bengal.	Lutohipur Coal Co., Ltd.	Shadhu, (m.), 38, Coolie.	Coal	Whilst pinching a trolley upon which was a steam pump, along planks laid to facilitate transit, the wheels slipped and overturned the pump which fell on him and killed him instantly. Inspection and inquiry made.

SUNDRIES UNDERGROUND—(3 deaths).

113	27th February, 3 to 4 P.M.	Dorrea Mine, Sitarampur P. O., Burdwan, Bengal.	New Beerbhun Coal Co., Ltd.	Somi Majhain, (f.), 40, Coal-carrier.	Coal	She was pushing an empty tub when a runaway tub from an adjacent incline struck her tub and knocked her down causing severe injuries from the effects of which she died a few hours after. Inspection and inquiry made.
114	3rd March, 1 P.M.	Gansadih Mine, Kusanda P. O., Manbhurn, Bengal.	Prosanna Kumar Roy.	Nanku Roy, (m.), 32, Coal-carrier.	Coal	A piece of coal weighing about 3 cwts. fell and struck a prop 2' 9" away, the latter heeled over and struck deceased on his head injuring him so seriously that he died within an hour. Inspection and inquiry made.
115	7th May, 9-30 P.M.	Bhugutdih Mine, Dhaubaid P. O., Manbhurn, Bengal.	Bengal Nagpur Coal Co., Ltd.	Ramjan Meah, (m.), 50, Pump khalassi.	Coal	The deceased was run over by two empty tubs which ran wild whilst being brought down a haulage incline by two miners without the rope. He was injured so severely that he died next morning. Inspection and inquiry made.

ABOVE GROUND.

By surface machinery—(1 death).

116	16th May, 4-30 A.M.	Serampur Mine, Giridih P. O., Hazaribagh, Bengal.	East Indian Railway Co.	Lallit Gope, (m.), 50, Truckman.	Coal	The deceased and three or four others were turning the handle of a crab winch, when a sudden jerk took place, and the handle was whirled out of the men's hands. The flying handle struck him in the face injuring him so severely that he died a few hours later. Inspection and inquiry made.
-----	------------------------	--	----------------------------	--	------	---

APPENDIX I—contd.

Fatal Accidents, 1908—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.	Cause of accident and remarks.
ABOVE GROUND—contd.						
On surface railways and tramways belonging to the mine—(6 deaths).						
117	23rd January, 1-30 P.M.	Bhuggutdih Mine, Dhanbaid P. O., Manbhum, Bengal.	Bengal Nagpur Coal Co.	Doyal Bauri, (m.), 60, Engineman.	Coal	The main line gave way and in attempting to shift the engine it capsized on him, injuring him so seriously that he died later on.
118	27th February, 9 P.M.	Mohpani Mine, Mohpani P. O., Narsinghpur, Central Provinces.	Great Indian Peninsular Railway Co.	Myram, (m.), 35, Surface stone tipper.	Coal	He tripped and fell while assisting the hunters to move a wagon and was hurt so seriously that he died two days later. Inspection and inquiry made.
119	6th April, 3 P.M.	Katras Mine, Katrasgarh P. O., Manbhum, Bengal.	Nowagarh Coal Co., Ltd.	Lillia Bhuia, (f.), 35, Wagon-loader.	Coal	She was crossing the tramway between the loading wharf and a set of coal ovens and did not observe a locomotive approaching, and was run over by it. She was deaf of one ear. Inspection and inquiry made.
120	22nd August, 6 P.M.	Chikla Mine, Kamptee P. O., Nagpur, Central Provinces.	Central Pro- vinces Pros- pecting Syn- dicate, Ltd.	Kasn, (f.), 50, Coolie.	Manganese	She was leaving work and while walking between the tram lines was knocked down by a loaded tub, and so seriously injured that she died about a quarter of an hour later. Inspection and inquiry made.
121	26th September, 1-15 P.M.	Chinchuria Mine, Asansol P. O., Burdwan, Bengal.	Baraboni Coal Concern, Ltd.	Beja Baurini, (f.), 40, Surface kamtin.	Coal	The deceased was overtaken by a loaded tub while trespassing on a tram line and was so seriously injured that she died four hours later from the effects. Inspection and inquiry made.
122	27th November, 11-30 A.M.	Kurkurbari Mine, Giridih P. O., Hazariabagh, Bengal.	East Indian Railway Co.	Bhatni Ghatwarin, (f.), 40, Boiler kamtin.	Coal	She was carrying ashes over the railway line while shunting was in progress and was caught between two colliding wagons and crushed so badly that she died three days later. Inspection and inquiry made.
Miscellaneous on surface (13 deaths).						
123	4th January, 8-45 P.M.	Bhuggutdih Mine, Dhanbaid P. O., Manbhum, Bengal.	Bengal Nagpur Coal Co.	Tani Kahar, (m.), 35, Bucket-man.	Coal	The deceased's clothes caught fire while he was sleeping close to a fire on the pit bank, and he was burnt so severely that he died the same day.
124	2nd February, 8-30 P.M.	Serampur Mine, Giridih P. O., Hazariabagh, Bengal.	East Indian Railway Co.	Budhu Dosadh, (m.), 26, Pump khalassi.	Coal	The deceased was overwound into the head gear while coming up a pit in a bucket owing to the engine khalassi failing to stop the engine in time. The rope came off the head gear pulley and he fell with the bucket to the ground and was so seriously hurt that he died six hours later. See Report, page 15. Inspection and inquiry made.
125	21st February, 8 to 9 P.M.	Brahmanbarari Mine, Jharia P. O., Manbhum, Bengal.	East Indian Coal Co., Ltd.	Sham Lal Sonar, (m.), 25, Hookman.	Coal	The deceased went down a path into the shallow part of the quarry to bathe, got out of his depth and was drowned. Inspection and inquiry made.

APPENDIX I—*contd.*Fatal Accidents, 1908—*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.	Cause of accident and remarks.
ABOVE GROUND—<i>contd.</i>						
Miscellaneous on surface—<i>contd.</i>						
126	14th May, 5-30 P.M.	Murwara Mine, Katni P. O., Jabalpur, Central Provinces.	A. H. Wheeler & Co.	Chuna Chamar, (m.), 25, <i>Coolie.</i>	Limestone	A block of earth fell on the deceased and on another man while they were cutting it. Chuna was hurt so seriously that he died later.
127	16th June, 9 A.M.	Rajhara Mine, Rajhara P. O., Palsmau, Bengal.	Bengal Coal Co., Ltd.	Kodo Mala, (m.), 38, <i>Surface labourer.</i>	Coal	He fell from the top of a mast put up for hoisting and was killed.
128	18th June, 9 P.M.	Bejdih Mine, Sitarampur P. O., Burdwan, Bengal.	Macneill & Co.	Mati Baurini, (f.), 50, <i>Surface kamin.</i>	Coal	The shear-legs over a sinking pit fell over while the deceased was at work crushing her so severely that she died three hours later. <i>See Report, page 15.</i> Inspection and inquiry made.
129	22nd June, 5 P.M.	Saogi Mine, Kodarma P. O., Hazaribagh, Bengal.	Manorajan Guha.	Thakuri Gope, (m.), 20, <i>Coolie.</i>	Mica	Whilst running to a place of shelter during rain he tripped and fell and fractured his skull.
130	2nd September, 8-30 A.M.	North Kustore Mine, Kusunda P. O., Munbhum, Bengal.	Raniganj Coal Association, Ltd.	Nazir Ally Meah, (m.), 32, <i>Tindal coolie.</i>	Coal	He fell 30 feet on to the brickwork foundation from a new head frame which was being erected, and injured his head so severely that he died next morning. Inspection and inquiry made.
131	18th September, Morning.	Sanatoria Mine, Dishargarh P. O., Burdwan, Bengal.	Bengal Coal Co., Ltd.	Gobinda Kundu, (m.), 19, <i>Chainman.</i>	Coal	The deceased was found drowned in an old feed water tank. It is presumed he went to bathe and got out of his depth. Inspection and inquiry made.
132	6th November, 10-45 A.M.	Serampur Mine, Giridih P. O., Hazaribagh, Bengal.	East Indian Railway Co.	Josia Kaharin, (f.), 50, <i>Tramline kamin.</i>	Coal	She was run over in attempting to cross the line in front of a tram and died shortly after admission into hospital. Inspection and inquiry made.
133	19th November, 12 to 3 A.M.	Mohpani Mine, Mohpani P. O., Narsinghpur, Central Provinces.	Great Indian Peninsula Railway Co.	Shum Shere, (m.), 20, <i>Stone-tipper.</i>	Coal	He and two others lighted a fire and laid down to sleep beside it. Whilst asleep his clothes caught fire and he was burnt so severely that he died a few hours later.
134	21st November, 1 A.M.	North Kustore Mine, Kusunda P. O., Munbhum, Bengal.	Raniganj Coal Association, Ltd.	Bastom Bauri, (m.), 19, <i>Shale-picker.</i>	Coal	His legs were run over by wagons which were being shunted at the siding whilst he was asleep. He died on the 22nd November. Inspection and inquiry made.
135	18th December, 6 A.M.	Bhaga Mine, Jharra P. O., Munbhum, Bengal.	Jharria Colliery Co., Ltd.	Lolit Napt, (m.), 20, <i>Coolie.</i>	Coal	His clothes caught fire while he was asleep near a coal fire and was burnt so severely that he died from the effects a few days later.

APPENDIX I—contd.

Fatal Accidents, 1908—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 NOT INCLUDED IN THE STATISTICS—(27 deaths.)							
1	18th January, 12 Noon.	Kacharwohi Mine, Kamptee P. O., Nagpur, Central Provinces.	Jessop & Co., Ltd.	Jutia, (m.), 2.	Manganese.	Not employed.	Burnt to death with the hut in which he lived.
2	29th February, 3 P. M.	Sundarohak Mine, Sundarchak P. O., Burdwan, Bengal.	Shampur Coal Co., Ltd.	Somi Majhain, (f.), 30.	Coal	Not employed.	The deceased was standing on the ledge of an abandoned quarry partly filled with water, getting ghuting hankar, when she fell back into the water and was drowned. Inspection and inquiry made.
3	7th March, 5 P. M.	Bhulanbarari Mine, Jharia P. O., Manbhurn, Bengal.	Bhulanbarari Coal Co., Ltd.	Ramprosad Mullat, (m.), 7.	Coal	Not employed.	The child was sitting near its parents who were removing a side of overburden when a mass of it collapsed. The gang escaped but the child was buried. It was dead when taken out. See Report, page 15. Inspection and inquiry made.
4	23rd March, 7-30 A. M.	Sonabhad Mine, Jharia P. O., Manbhurn, Bengal.	Ghanasham Das Agar- wala.	Rohini Kora, (m.), 5.	Coal	Not employed.	Found drowned in a cement water tank. Inspection and inquiry made.
5	18th April, 7 P. M.	Ebatdih Mine, Mohoda P. O., Manbhurn, Bengal.	Bengal Bhat- dih Coal Co., Ltd.	Khargul Khan, (m.), 30, Sinker.	Coal	Death due to natural causes.	Deceased went down about 3 or 4 hours after firing and shortly afterwards came up complain- ing of the fumes. He was a confirmed "ganja" smoker and his death was probably due to natural causes accelerated by "ganja" smoking. Inspection and inquiry made.
6	22nd April, 11 A. M.	Loyabad Mine, Kneunda P. O., Manbhurn, Bengal.	Barakar Coal Co., Ltd.	Sibus, (f.), 10.	Coal	Not employed.	She was bathing with her brother, a child of 4, and sat upon a large log of wood which was floating in the tank and overbalanced herself and was drowned. Inspection and inquiry made.
7	24th April, 8 P. M.	Kulstore Mine, Chowkidanga P. O., Burdwan, Bengal.	Kulstore Coal Co., Ltd.	Suvankar Ghatak, (m.), 21, Store-keeper. Bhusan Gope, (m.), 18, Coolie.	Coal	Not a mine accident.	A hut used as a temporary store caught fire and the two deceased who were presumably asleep inside were so severely burnt that they died the following day. Inspection and inquiry made.
8	2nd May, 3 P. M.	Fatka Mine, Nirshaohati P. O., Manbhurn, Bengal.	Fatka Coal Co.	Unknown (m.), 24.	Coal	Not employed.	The deceased committed suicide by jumping down a shaft 46 feet deep. The shaft was properly fenced. Inspection and inquiry made.
9	24th May, 8-30 P. M.	Jharia Khas Mine, Jharia P. O., Manbhurn, Bengal.	Standard Coal Co., Ltd.	Somi Korani, (f.), 25.	Coal	Not employed.	While sheltering during a storm behind an empty wagon, another wagon set in motion by the wind and unperceived by her ran over her and injured her so seriously that she died two days later.
10	27th June, 2 P. M.	Bankola Mine, Raniganj P. O., Burdwan, Bengal.	Eastern Coal Co., Ltd.	Basul, (f.), 5.	Coal	Not employed.	She was sitting under a coal wagon and was run over during hand shunting operations. Inspection and inquiry made.

APPENDIX I—contd.

Fatal Accidents, 1908—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.
11	29th June, between 10 P.M. and 6 A.M.	Bagdiggi Mine, Jharis P. O., Manbhum, Bengal.	G. J. Smith.	Madhai Barhai, (m.), 24.	Coal	Not employed.	He was found drowned in an iron tank which was entirely closed in except for a hole at the top 1' 2" in diameter. Apparently committed suicide. Inspection and inquiry made.
12	8rd July, 9 A.M.	Futtelepur Mine, Jharis P. O., Manbhum, Bengal.	Fremji and Devshi Hamir.	Dukhai Mulla, (f.), 12, Earth-carrier.	Coal	Death due to epilepsy.	The deceased was seized with an epileptic fit and rolled down a 50 feet slope of earthwork into water and was drowned. Inspection and inquiry made.
13	16th July, 5 P.M.	Jairamdanga Mine, Asansol P. O., Bardwan, Bengal.	New Beerbhun Coal Co., Ltd.	Dipni Korini, (f.), 8.	Coal	Not employed.	She went to bathe in a fenced boiler-tank against orders, and was drowned. Inspection and inquiry made.
14	21st July, 1 P.M.	Mayo Mine, Khawra P. O., Jhelum, Panjab.	Government of India.	Mira, (m.), 4½.	Salt	Not employed.	While the parents were attending to the carriage of salt the child moved away unnoticed and fell over the end of the working to a working place below.
15	21st July, 5 P.M.	Loyabad Mine, Kusunda P. O., Manbhum, Bengal.	Barakar Coal Co., Ltd.	Rosul, (f.), 8.	Coal	Not employed.	Knocked down by some empty tubs which were being pushed by a locomotive. Died two hours later. Inspection and inquiry made.
16	17th July, 2-30 P.M.	Kabulayatkatti Mine, Kabulayatkatti P. O., Dharwar, Bombay.	Dharwar Reefs Gold Mining Co., Ltd.	Anthony, (m.), P Private-servant.	Gold	Not employed on the mine.	Whilst he was bathing near a tank, he slipped in and was drowned.
17	23rd July, 10 A.M.	Bagdiggi Mine, Jharis P. O., Manbhum, Bengal.	G. J. Smith.	Karno Bel-dar, (m.), 55.	Coal	Not employed.	He went to the steep side of the quarry which was full of water to bathe and presumably fell from the steps into deep water and was drowned. Inspection and inquiry made.
18	5th September, 8 A.M.	Surataur Mine, Nowagarh P. O., Manbhum, Bengal.	Bireswar Roy.	Miton Singh, (m.), 40.	Coal	Not employed.	He was of unsound mind and was found at the bottom of a pit, 90 feet deep, dead. Inspection and inquiry made.
19	27th September, 10 A.M.	Kally Than Surataur Mine, Jharis P. O., Manbhum, Bengal.	K. B. Seal.	Budhni Majhain, (f.), 14.	Coal	Not employed.	She went to bathe in the incline and somehow got out of her depth and was drowned. Inspection and inquiry made.
20	28th September, 12 Noon.	Dheriajoba Mine, Kusunda P. O., Manbhum, Bengal.	Dheriajoba Coal Co.	Sukri Nunia, (f.), 5.	Coal	Not employed.	The child went to a tank which had about 3½ feet of water in it, to wash some utensils and was found drowned in it. Inspection and inquiry made.
21	10th October, 8 P.M.	Jamadoba Mine, Jharis P. O., Manbhum, Bengal.	Indian Collieries Syndicate, Ltd.	Kuloda Baurini, (f.), 20, Coal-carrier.	Coal	Not a mine accident.	She went to draw water from a well near the miners' huts and probably stood on the wall which was round it and fell down into the well and was drowned. Inspection and inquiry made.
22	20th October, 10-15 A.M.	Sendra Mine, Sijua P. O., Manbhum, Bengal.	Sendra Coal Co., Ltd.	Bulki Korani, (f.), 30, Surface labourer.	Coal	Not a mine accident.	She was sent upon the roof of a bungalow to clean it and slipped while walking on the parapet. She died shortly afterwards from internal injuries. Inspection and inquiry made.

DEATHS NOT INCLUDED IN THE STATISTICS—contd.

APPENDIX I--*concl'd.*Fatal Accidents, 1908--*concl'd.*

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 NOT INCLUDED IN THE STATISTICS--*concl'd.*

23	22nd November, 3-30 P.M.	Jairamdanga Mine, Asansol P. O., Burdwan, Bengal.	New Beer- bhun Coal Co., Ltd.	Ganea Bhuia, (f), 7.	Coal	Not employed.	She was sitting on the return wheel of a main and tail haulage system when the wheel moved and her legs became jammed in the frame. She died on the following day. Inspection and inquiry made.
24	22nd December, 12 Noon.	Bansdeopur Mine, Kusunda P. O., Manbhun, Bengal.	Bansdeopur Coal Co.	Sahadeo Monda, (m), 3.	Coal	Not employed.	The child was sleeping on a ledge, and a large fall took place about 20 feet away. The child fell down 8 feet and was picked up dead. He had been ill for some days. See Report, page 15. Inspection and inquiry made.
25	29th Decem- ber, 7 P.M.	Kusunda Mine, Kusunda P. O., Manbhun, Bengal.	K. M Select- ed Coal Co.	Gaoria, (f), 25, Bangalia, (m), 3.	Coal	Not employed.	Found 'drowned'. Probably a case of suicide. Inspection and inquiry made.

APPENDIX II.

Table No. 1.

Indian Mines Act, 1901, Numbers of Mines and workers, year 1908.

PROVINCE.	District and Mineral field.	Number of mines under the scope of the Act.	NUMBER OF MINES.		NUMBER OF MINES INSPECTED DURING THE YEAR.		AVERAGE NUMBER OF PERSONS EMPLOYED DAILY IN AND ABOUT THE MINES.								
			Worked by steam.	Not worked by steam.	Once.	Twice or more.	BELOW GROUND.				ABOVE GROUND.				Grand Total below ground and above ground.
							Adult males.	Adult females.	Children (under 12).	Total below ground.	Adult males.	Adult females.	Children (under 12).	Total above ground.	
A.—COAL.															
Bengal	Hazaribagh, Giridih	10	7	3	3	3	3,325	1,297	27	4,649	1,916	975	75	2,966	7,615
	Manbhum { Jharis	232	94	128	44	38	21,643	15,730	747	38,150	14,022	7,208	1,439	22,669	60,819
	{ Raniganj	59	11	48	20	15	3,352	1,506	10	4,868	1,477	900	57	2,434	7,302
	Bankura, " "	1	...	1	...	...	17	14	...	31	4	8	...	12	43
	Burdwan, " "	158	182	26	92	33	15,886	6,590	233	22,709	7,591	4,589	332	12,512	35,321
	Sonchal Parganas, Raniganj.	1	...	...	...	...	14	5	...	19	4	2	...	6	25
	Sonchal Parganas, Rajmahal.	4	...	4	...	...	14	4	...	18	...	...	...	...	18
	Palaman, Daltonganj	2	2	...	...	...	393	212	94	639	376	90	85	501	1,140
Birbhum Raniganj	1	...	1	...	...	15	10	...	25	9	2	...	11	36	
	TOTAL	458	247	311	159	89	44,599	25,398	1,111	71,108	25,399	13,774	1,938	41,111	112,219
Central Provinces.	Ohhindwara, Pench Valley.	6	5	1	6	...	591	281	1	853	255	84	25	364	1,217
	Narsinghpur, Mohpani, Chanda, Ballarpur	1	1	...	...	...	553	228	...	781	397	49	...	446	1,227
		1	1	...	...	...	329	...	...	329	121	...	6	127	456
	TOTAL	8	7	1	6	2	1,478	489	1	1,963	778	133	31	937	2,900
Panjab	Jhelum	17	2	15	2	...	867	...	2	869	584	...	12	598	1,465
	Shekhpur	4	...	4	...	...	368	...	...	366	303	...	...	305	669
	Mianwali	4	...	4	...	...	32	...	...	32	27	2	...	30	62
	TOTAL	25	2	23	2	...	1,265	...	2	1,267	914	2	13	929	2,196
Eastern Bengal and Assam.	Lakhimpur	5	5	...	...	...	795	317	...	1,112	366	207	24	597	1,709
	Sibagar, Dihru Valley	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	TOTAL	5	5	...	...	...	795	317	...	1,112	366	207	24	597	1,709
Baluchistan	Sibi, Khost	1	1	...	...	...	475	...	...	475	246	...	18	264	739
	Quetta, Sor Range	7	...	7	2	...	143	...	...	143	26	...	...	26	169
	Kalat, Mach and Digari	4	...	4	...	...	119	...	2	121	31	...	1	32	153
	Loralai, Loralai	1	...	1	...	...	5	...	...	5	3	...	...	3	8
	TOTAL	13	1	12	4	1	742	...	2	744	306	...	19	825	1,069
N.-W. Frontier Province.	Hazara	1	...	1	...	...	14	...	...	14	...	...	...	...	14
	GRAND TOTAL (COAL).	510	262	248	171	92	45,888	26,204	1,118	76,208	27,758	14,116	2,025	43,899	120,107
B.—MICA.															
Bengal	Monghyr	4	...	4	...	...	215	19	...	234	107	188	5	300	534
	Hazaribagh	202	...	202	12	...	3,651	978	154	4,783	1,081	1,201	1,252	8,534	8,317
	Gaya	24	...	24	...	...	574	318	59	946	200	177	113	490	1,438
	TOTAL	230	...	230	12	...	4,440	1,310	213	5,968	1,388	1,566	1,370	4,324	10,287
Madras	Nellore	102	4	98	71	1	1,554	1,075	109	2,738	461	715	747	1,923	4,661
	Nilgiris	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	TOTAL	102	4	98	71	1	1,554	1,075	109	2,738	461	715	747	1,923	4,661
Rajputana	Ajmer-Merwara	7	...	7	...	...	72	4	...	76	144	99	10	253	322
	GRAND TOTAL (MICA).	399	4	395	83	1	6,066	2,869	322	8,777	1,993	2,380	2,127	6,500	15,277

APPENDIX II—contd.

Table No. I.—contd.

Indian Mines Act, 1901, Numbers of Mines and workers, year 1903.

PROVINCE.	District and Mineral field.	Number of mines under the scope of the Act.	NUMBER OF MINES.		NUMBER OF MINES INSPECTED DURING THE YEAR.		AVERAGE NUMBER OF PERSONS EMPLOYED DAILY IN AND ABOUT THE MINES.							Grand Total below ground and above ground.	
			Worked by steam.	Not worked by steam.	Once.	Twice or more.	BELOW GROUND.				ABOVE GROUND.				
							Adult males.	Adult females.	Children (under 13).	Total below ground.	Adult males.	Adult females.	Children (under 13).		Total above ground.
Central Provinces.	Nagpur Bhandara Balaghat Chhindwara	17	6	11	9	...	1,781	948	44	2,778	246	197	...	448	3,216
		8	5	3	3	...	908	301	4	518	1,108	549	...	1,657	3,170
		11	...	11	1	...	1,119	793	45	1,937	431	279	87	747	2,704
		3	...	3	3	...	225	241	...	466	270	316	...	586	1,032
	TOTAL	39	11	28	16	1	3,433	2,188	98	5,709	2,055	1,841	87	3,438	9,142
Madras	Visagapatam	30	2	28	...	...	2,722	1,652	56	4,430	979	733	123	1,834	6,264
Bombay	Panch Mahals	8	...	8	...	1	347	139	46	532	308	143	27	478	1,010
	GRAND TOTAL (MANGANESE).	72	13	59	16	2	6,502	3,974	195	10,671	3,342	2,216	137	5,745	16,416
Central Provinces.	Jabalpur, Katni	29	...	29	29	...	895	1,498	30	2,358	391	408	38	837	3,195
			GRAND TOTAL (LIMESTONE).	30	...	30	29	...	875	1,498	30	2,398	441	408	38	837	3,235
Panjab	Hoshiarpur	1	...	1	...	...	40	...	...	40	50	...	...	50	90
	GRAND TOTAL (SALT).	4	...	4	1	1	406	301	44	751	56	...	...	56	807
Panjab	Shahpur Jhelum Mianwali	1 2 1	...	1 2 1	...	...	26 316 64	24 277 ...	...	50 637 64	...	...	...	...	50 698 64
	GRAND TOTAL (SALT).	4	...	4	1	1	406	301	44	751	56	...	...	56	807
Burma	Mogok (RUBINS, ETC.)	1	1	...	...	...	95	...	...	95	1,045	...	...	1,045	1,140
Bengal	Monghyr	1	...	1	...	...	95	27	...	122	98	43	...	141	268
Panjab	Gurgaon	6	...	6	6	...	108	48	42	191	340	20	58	418	609
	GRAND TOTAL (SLATE).	7	...	7	...	...	201	70	42	313	338	63	58	559	872
Bombay	Dharwar	8	7	1	6	2	1,782	...	...	1,732	748	137	98	978	2,705
Madras	Anantapur	3	3	...	...	...	258	...	...	258	169	29	...	198	456
	GRAND TOTAL (GOLD).	11	10	1	6	2	1,990	...	...	1,990	912	166	93	1,171	3,161

APPENDIX II—contd.

Table No. 1—concl'd.

Indian Mines Act, 1901, Numbers of Mines and workers, year 1908.

PROVINCE.	District and Mineral field.	Number of mines under the scope of the Act.	NUMBER OF MINES.		NUMBER OF MINES INSPECTED DURING THE YEAR.		AVERAGE NUMBER OF PERSONS EMPLOYED DAILY IN AND ABOUT THE MINES.								Grand Total below ground and above ground.
			Worked by steam.	Not worked by steam.	Once.	Twice or more.	BELOW GROUND.				ABOVE GROUND.				
							Adult males.	Adult females.	Children (under 12).	Total below ground.	Adult males.	Adult females.	Children (under 12).	Total above ground.	
I.—IRON ORE.															
Central Provinces.	Jabalpur	1	...	1	...	...	12	10	...	22	6	4	...	10	32
Bengal	Singhbhum	4	...	4	...	...	...	...	...	...	281	485	...	666	666
GRAND TOTAL (IRON ORE).		5	...	5	...	...	12	10	...	22	287	489	...	67	698
J.—MAGNESITE.															
Madras	Salem	1	...	1	...	...	164	184	140	488	29	44	44	117	555
K.—CHROMITE.															
Baluchistan	Quetta-Peshin	1	...	1	...	...	22	...	...	22	25	...	...	25	47
L.—COPPER.															
Central Provinces.	Jabalpur	4	...	4	...	...	59	...	...	59	20	88	...	58	117
Bengal	Singhbhum	1	1	...	...	...	146	...	...	146	55	21	...	76	222
GRAND TOTAL (COPPER).		5	1	4	...	...	205	...	...	205	75	59	...	134	339
M.—JADE.															
Burma	Myitkyina	3	...	3	...	...	426	...	...	426	959	...	...	959	1,385
N.—LEAD.															
Bengal	Sambalpur	1	...	1	...	...	6	...	...	6	2	8	...	10	16
O.—TIN.															
Burma	Mergui	6	...	6	...	...	10	...	...	10	7	...	...	7	17
P.—STEATITE.															
Central Provinces.	Jabalpur	4	...	4	...	...	66	...	...	66	21	31	...	52	118
Q.—BAUXITE.															
Central Provinces.	Jabalpur	2	...	2	...	...	48	5	...	53	...	8	...	8	61
GRAND TOTAL (ALL MINES).		1,062	291	771	312	98	65,982	34,580	1,869	62,451	37,840	19,938	4,572	61,950	164,301

APPENDIX II—contd.

Table No. 2.

Classified Statement of Fatal and Serious Accidents in and about Mines regulated by the Indian Act, 1901, during the year, 1908.

PROVINCE.	District and Mineral field.	Total average number of persons employed daily.	Total output.	Number of separate fatal accidents.	NUMBER OF DEATHS.			Number of serious non-fatal accidents.	NUMBER OF PERSONS SERIOUSLY INJURED.			DEATH-RATE PER 1,000 PERSONS EMPLOYED.		
					Below ground.	Above ground.	Total deaths.		Below ground.	Above ground.	Total number of persons injured.	Below ground.	Above ground.	Below ground and above ground.
ERRATA.														
On page 43, Appendix II, Table No. 2, under "A.-Coal", Column 4—"Total output", against figures for Manbhum, Raniganj—for 662,222 read 651,654, and " Burdwan, " - " 3,550,365 " 3,560,933.														
	Chanda, Ballarpur	2,900	218,789	8	1	2	8	6	5	1	6	70	218	108
Panjab	TOTAL	2,900	218,789	8	1	2	8	6	5	1	6	70	218	108
	Jhelum	1,465	41,407	1	1	...	1	8	6	2	8	115	...	68
	Shahpur	689	12,585	...	...	...	...	...	...	...	...	...	...	...
	Mianwali	62	702	...	...	...	...	...	...	...	...	...	...	...
	TOTAL	2,196	54,794	1	1	...	1	8	6	2	8	78	...	45
Eastern Bengal and Assam.	Lakhimpur	1,709	275,224	10	11	...	11	1	1	...	1	989	...	643
	Sibsagar, Dikhu Valley	...	...	...	...	...	...	...	...	...	...	...	...	...
	TOTAL	1,709	275,224	10	11	...	11	1	1	...	1	989	...	643
Baluchistan	Sibi, Khost	798	31,547	6	25	...	25	1	1	...	1	2988	...	3882
	Quetta, Sor Range	169	7,614	...	...	...	...	...	...	...	...	...	...	...
	Kalat, Mach and Digari	158	5,835	...	...	...	...	...	...	...	...	...	...	...
	Loralai, Loralai	8	216	...	...	...	...	...	...	...	...	...	...	...
	TOTAL	1,069	45,212	6	25	...	25	1	1	...	1	2900	...	2888
N.-W. Frontier Province	Hazara	14	90	...	...	...	...	...	...	...	...	...	...	...
	GRAND TOTAL (COAL)	120,107	12,149,020	114	148	17	165	86	68	29	97	104	286	137
Bengal	B.—MICA.													
	Monghyr	594	811	...	...	...	...	...	...	...	...	...	...	...
	Hazariabagh	2,317	24,338	...	...	...	...	...	...	...	...	...	...	...
	Gaya	1,436	6,168	...	...	...	...	...	...	...	...	...	...	...
	TOTAL	10,287	31,137	2	2	1	3	4	7	...	7	28	23	29
Madras	Nellore	4,661	11,129	...	...	...	...	1	2	...	2	...	...	...
	Nilgiris	...	...	...	...	...	...	...	...	...	...	...	...	...
	TOTAL	4,661	11,129	...	...	...	...	1	2	...	2	...	...	...
Rajputana	Ajmer-Merwara	329	8,942	...	...	...	...	...	...	...	...	...	...	...
	GRAND TOTAL (MICA)	15,277	46,208	2	2	1	3	5	9	...	9	22	15	19

APPENDIX II—contd.

Table No. 2—contd.

Classified Statement of Fatal and Serious Accidents in and about Mines regulated by the Indian Act, 1901, during the year 1908—contd.

PROVINCE.	District and Mineral field.	Total average number of persons employed daily.	Total output.	NUMBER OF DEATHS.			Number of serious non-fatal accidents.	NUMBER OF PERSONS SERIOUSLY INJURED.			DEATH-RATE PER 1,000 PERSONS EMPLOYED.				
				Number of separate fatal accidents.	Below ground.	Above ground.		Total deaths.	Below ground.	Above ground.	Total number of persons injured.	Below ground.	Above ground.	Below ground and above ground.	
C.—MANGANESE.															
Central Provinces	Nagpur Bhandara Balasohat Chhindwara	3,216	Tons. 119,656	4	3	1	4	4	1	3	4	1.08	2.25	1.24	
		3,170	94,220	...	...	...	...	3	1	1	3	...	...	...
		2,704	122,175	...	...	...	...	...	...	...	...	...	...	...
		1,052	47,147	...	...	...	...	...	...	...	...	...	...	...
	TOTAL	9,142	383,198	4	3	1	4	9	4	6	10	.52	.29	.43	
Madras	Visagapatam	6,264	89,712	1	1	...	1	1	...	1	1	.22	...	.15
Bombay	Panoh Mahals	1,010	22,032	...	...	...	...	1	2	...	2	...	...	...
	GRAND TOTAL (MANGANESE)	16,416	494,942	5	4	1	5	11	6	7	13	.37	.17	.30	
D.—LIMESTONE.															
Central Provinces	Jabalpur, Katni	3,195	100,169	3	8	1	9	1	1	...	1	3.39	1.19	2.81	
Panjab	Hoshiarpur	90	1,400	...	...	...	...	...	...	...	...	...	...	...
	GRAND TOTAL (LIMESTONE)	3,285	101,569	3	8	1	9	1	1	...	1	3.33	1.12	2.73	
E.—SALT.															
Panjab	Shahpur Jhelum Mianwali	50	6,464	...	...	...	...	5	5	...	5	...	...	...
		698	76,649	...	...	...	...	...	...	...	...	...	...	...
		64	10,666	...	...	...	...	...	...	...	...	...	...	...
	GRAND TOTAL (SALT)	807	93,779	...	...	...	...	5	5	...	5	...	...	...
F.—GEMS.															
Burma	Mogok (Rubies, etc.)	1,140	Carats. 211,194	2	2	...	2	...	...	...	...	21.05	...	1.75
G.—SLATE.															
Bengal	Monghyr	268	Tons. 1,047	...	...	...	...	...	...	...	...	...	...	...
Panjab	Gurgaon	609	6,374	1	1	...	1	...	...	...	...	5.23	...	1.64
	GRAND TOTAL (SLATE)	872	7,421	1	1	...	1	...	...	...	...	3.19	...	1.14
H.—GOLD.															
Bombay	Dharwar	3,705	Onnces. 7,242	7	8	...	8	10	10	...	10	4.61	...	2.95	
Madras	Anantapur	456	...	...	...	...	...	2	3	1	4	...	...	...
	GRAND TOTAL (GOLD)	3,161	7,242	7	8	...	8	12	13	1	14	4.02	...	2.53	

APPENDIX II—contd.

Table 2—concl'd.

Classified Statement of Fatal and Serious Accidents in and about Mines regulated by the Indian Act, 1901, during the year 1908—contd.

PROVINCE.	District and Mineral field.	Total average number of persons employed daily.	Total output.	Number of separate fatal accidents.	NUMBER OF DEATHS.			Number of serious non-fatal accidents.	NUMBER OF PERSONS SERIOUSLY INJURED.			DEATH-RATE PER 1,000 PERSONS EMPLOYED.		
					Below ground.	Above ground.	Total deaths.		Below ground.	Above ground.	Total number of persons injured.	Below ground.	Above ground.	Below and above ground.
I.—IRON ORE.														
Central Provinces	Jabalpur	32	Tons. 300	...	...	...	...	...	...	...	...	...	...	...
Bengal	Singhbhum	666	18,907	...	...	...	...	...	...	...	...	...	...	...
	GRAND TOTAL (IRON ORE)	698	19,207	...	...	...	...	...	...	...	...	...	...	...
J.—MAGNESITE.														
Madras	Salem	555	7,584	...	...	...	...	...	...	...	...	...	...	...
K.—CHROMITE.														
Baluchistan	Quetta-Pishin	47	Cwts. 20,000	1	1	...	1	...	...	...	...	45.45	...	21.27
L.—COPPER.														
Central Provinces	Jabalpur	117	Tons. 10	...	...	...	...	1	1	...	1	...	...	...
Bengal	Singhbhum	222	...	1	1	...	1	...	...	...	...	6.84	...	4.50
	GRAND TOTAL (COPPER)	339	10	1	1	...	1	1	...	1	...	4.87	...	2.94
M.—JADE.														
Burma	Myitkyina	1,385	Cwts. 3,367	...	...	...	...	...	...	...	...	...	...	...
N.—LEAD.														
Bengal	Sambalpur	16	...	...	...	...	...	...	...	...	...	...	...	...
O.—TIN.														
Burma	Mergui	17	Cwts. 141	...	...	...	...	...	...	...	...	...	...	...
P.—STEATITE.														
Central Provinces	Jabalpur	118	15,280	...	...	...	...	...	...	...	...	...	...	...
Q.—BAUXITE.														
Central Provinces	Jabalpur	61	Tons. 82	...	...	...	...	...	...	...	...	...	...	...
	GRAND TOTAL (ALL MINERALS)	164,801	Tons. 12,873,514 Cwts. 84,996 Ounces. 7,242 Carats. 211,194	136	175	20	195	131	103	37	140	1.70	.82	1.18

APPENDIX II—contd.

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 1908.

PROVINCE.	AVERAGE NUMBER OF PERSONS WORKING DAILY IN AND ABOUT MINES GETTING						
	Coal.	Mica.	Manganese.	Limestone.	Salt.	Other minerals.	Total persons.
Bengal	112,219	10,287	...	...	...	1,167	123,673
Central Provinces	2,900	...	9,142	3,195	...	323	15,565
Madras . . . . .	...	4,661	6,264	...	...	1,011	11,936
Eastern Bengal and Assam	1,709	...	...	...	...	...	1,709
Baluchistan	1,069	...	...	...	...	47	1,116
Panjab	2,196	...	...	90	807	609	3,702
Burma . . . . .	...	...	...	...	...	2,542	2,542
Bombay . . . . .	...	...	1,010	...	...	2,705	3,715
Rajputana . . . . .	...	329	...	...	...	...	329
North-West Frontier Province	14	...	...	...	...	...	14
Total 1908	120,107	15,277	16,416	3,285	807	8,409	164,301
Total in preceding year	102,689	17,983	18,751	3,053	980	8,577	151,983
Difference	+ 17,418	-2,706	-2,335	+ 232	-123	-168	+ 12,318

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 1908.

PROVINCE.	Coal.	Manganese Ore.	Mica.	Limestone.	Salt.
	Statute Tons.	Statute Tons.	Statute Cwts.	Statute Tons.	Statute Tons.
Bengal	11,559,911	...	31,137	...	...
Central Provinces	213,789	383,198	...	100,169	...
Madras . . . . .	...	89,712	11,129	...	...
Eastern Bengal and Assam	275,224	...	...	...	...
Baluchistan	45,212	...	...	...	...
Panjab	54,794	...	...	1,400	93,779
Rajputana . . . . .	...	...	3,942	...	...
Bombay . . . . .	...	22,032	...	...	...
North-West Frontier Province	90	...	...	...	...
Total in 1908	12,149,020	494,942	46,208	101,569	93,779
Total in preceding year	10,526,463	642,082	44,919	73,222	101,703
Difference	+ 1,622,552	-147,140	+ 1,289	+ 28,347	-7,924

APPENDIX II—contd.

Table No. 5.

The following table shows the average number of persons working daily in and about mines regulated by the Indian Mines Act, during the years 1907 and 1908.

ALL MINES UNDER THE ACT.

Description of workers.	Year 1907.	Year 1908.	Difference.
	Below ground.	Below ground.	Below ground.
Adult Males	64,095	65,982	+1,887
Adult Females	32,850	34,580	+1,730
Children under 12	1,879	1,859	+10
TOTAL BELOW GROUND	98,824	102,451	+3,627
	Above ground.	Above ground.	Above ground.
Adult Males	32,674	37,340	+4,666
Adult Females	16,266	19,988	+3,722
Children under 12	4,219	4,572	+353
TOTAL ABOVE GROUND	53,159	61,850	+8,691
TOTAL BELOW AND ABOVE GROUND	151,983	164,301	+12,318

ALL COAL-MINES UNDER THE ACT.

Description of workers.	Year 1907.	Year 1908.	Difference.
	Below ground.	Below ground.	Below ground.
Adult Males	42,856	48,888	+6,032
Adult Females	22,323	26,204	+3,881
Children under 12	861	1,116	+255
TOTAL BELOW GROUND	66,040	76,208	+10,168
	Above ground.	Above ground.	Above ground.
Adult Males	23,411	27,758	+4,347
Adult Females	11,666	14,116	+2,450
Children under 12	1,572	2,025	+453
TOTAL ABOVE GROUND	36,649	43,899	+7,250
TOTAL BELOW AND ABOVE GROUND	102,689	120,107	+17,418

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, copper, jade, tin, steatite, and bauxite.

Year.	Coal.	Manganese Ore.	Mica.	Limestone.	Salt.
	Tons.	Tons.	Cwts.	Tons.	Tons.
1899	4,622,242	87,126	10,860	1,177	78,754
1900	5,452,408	92,458	18,320	...	79,996
1901	6,251,522	162,057	19,900	28,000	90,242
1902	6,790,507	144,037	21,360	30,091	87,361
1903	6,812,725	171,223	20,100	35,238	90,667
1904	7,561,838	198,733	21,320	50,847	107,418
1905	7,770,471	204,194	25,548	93,170	94,076
1906	9,112,663	436,442	50,488	48,836	118,023
1907	10,526,468	642,082	44,919	73,222	101,708
1908	12,149,020	494,942	46,208	101,569	93,779

APPENDIX II—*contd.*

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 1908 in respect of coal mines under the Indian Mines Act, 1901.

YEAR.	Amount of coal raised.	Average number of persons working daily below and above ground.	Number of deaths below and above ground.	DEATH-RATES.	
				Per 1,000,000 tons raised.	Per 1,000 persons working daily below and above ground.
1899	4,622,242	65,795	73	15.79	1.11
1900	5,452,408	80,003	52	9.53	.64
1901	6,251,522	85,361	58	9.28	.67
1902	6,790,507	89,503	59	8.69	.66
1903	6,812,725	79,561	67	9.83	.84
1904	7,561,338	82,002	55	7.27	.67
1905	7,770,471	79,506	53	7.46	.72
1906	9,112,663	90,159	80	8.78	.89
1907	10,526,468	102,689	89	8.45	.86
1908	12,149,020	120,107	165	13.58	1.37

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.

YEAR.	Countries.	Tons of coal raised.	Persons employed.	Tons raised per person employed.
1907	United Kingdom	267,830,962	925,097	290
1906	United States	381,858,021	640,780	596
"	Germany	196,698,722	569,745	345
"	Austria	38,255,847	121,179	316
"	France	34,004,338	178,431	191
"	Belgium	23,954,848	139,394	172
"	Nova Scotia	5,866,605	12,123	484
"	British Columbia	1,899,076	4,805	395
"	Australia	8,596,416	17,263	493
"	Natal	1,233,713	6,059	204
"	Transvaal	2,582,504	9,445	272
"	Japan	13,192,119	106,589	124
"	New Zealand	1,729,536	3,692	468
1903	Russia	17,581,324	105,774	166
	Totals and average	995,289,031	2,840,376	350
1908	British India	12,149,020	120,107	101

APPENDIX II—*contd.*

Table No. 9.

Fatal accidents and deaths in mines regulated by the Indian Mines Act, 1901, during the year 1908, classified according to the mineral worked.

MINERAL.	PROVINCE AND MINERAL AREA.	Number of separate fatal accidents.	NUMBER OF DEATHS.								TOTAL BELOW AND ABOVE GROUND.	
			BELOW GROUND.				ABOVE GROUND.					
			Adult males.	Adult females.	Children (under 12).	TOTAL.	Adult males.	Adult females.	Children (under 12).	TOTAL.		
COAL	Baluchistan	6	25	...	...	25	...	...	...	...	25
	Bengal {	Daltonganj	1	...	...	...	1	...	...	1	1
		Giridih	7	3	2	...	5	2	2	...	4	9
		Jharia	47	46	15	...	61	6	1	...	7	68
		Baniganj	38	29	14	...	43	1	2	...	3	46
	TOTAL (BENGAL)	93	78	31	...	109	10	5	...	15	124	
	Central Provinces	3	1	...	...	1	2	...	...	2	3
	Eastern Bengal and Assam	10	8	3	...	11	...	...	...	...	11
Panjab	1	1	...	...	1	...	...	...	...	1	
TOTAL COAL	113	113	34	...	147	13	5	...	17	164		
MICA	Bengal	2	2	...	...	2	1	...	...	1	3
MANGANESE	Central Provinces	4	2	1	...	3	...	1	...	1	4	
	Madras	1	1	...	...	1	...	...	...	...	1
	TOTAL MANGANESE	5	3	1	...	4	...	1	...	1	5	
LIMESTONE	Central Provinces	3	3	...	...	3	1	...	...	1	4
GEMS	Burma	2	2	...	...	2	...	...	...	...	2
SLATE	Panjab	1	1	...	...	1	...	...	...	...	1
GOLD	Bombay	7	3	...	...	6	...	...	...	...	9
CHROMITE	Baluchistan	1	1	...	...	1	...	...	...	...	1
COPPER	Bengal	1	1	...	...	1	...	...	...	...	1
GRAND TOTAL, ALL MINERALS		135	139	35	...	174	14	6	...	20	194	

APPENDIX II—*contd.*

Table No. 10.

Fatal accidents and deaths classified according to causes.

CAUSES OF ACCIDENTS.	1908.				
	Number of separate accidents.	DEATHS.			
		Adult males.	Adult females.	Children (under 12).	TOTAL.
BELOW GROUND.					
Explosions of fire-damp	3	22	...	...	22
Falls in Mines.					
Falls of roof	38	46	11	...	57
„ „ side	20	28	8	...	31
TOTAL	58	69	19	...	88
In Shafts.					
Ropes and chains breaking	1	1	...	...	1
Whilst ascending or descending by machinery	4	4	5	...	9
Falling into the shaft from the surface	6	6	...	...	6
Falling from part of the way down	5	4	1	...	5
Things falling from the surface	3	3	...	...	3
Miscellaneous	3	3	...	...	3
TOTAL	22	21	6	...	27
Miscellaneous below ground.					
By explosives	6	8	...	...	8
Irruptions of water or falling into water	2	1	1	...	2
Haulage	19	14	8	...	22
By underground machinery	2	2	...	...	2
Sandries underground	3	2	1	...	3
TOTAL	32	27	10	...	37
TOTAL BELOW GROUND	115	139	35	...	174
ABOVE GROUND.					
By surface machinery	1	1	...	...	1
On surface railways and tramways	6	2	4	...	6
Miscellaneous on surface	13	11	2	...	13
TOTAL ABOVE GROUND	20	14	6	...	20
TOTAL BELOW AND ABOVE GROUND	135	153	41	...	194

APPENDIX II—contd.

Table No. 11.

ACCIDENTS, 1908.

Classified according to cause and mineral worked.

MINERAL WORKED.	Number of separate fatal accidents.	NUMBER OF PERSONS KILLED.											DEATH-RATE PER 1,000 PERSONS EMPLOYED.		
		Explosions of fire-damp.	Falls of roof.	Falls of side.	In shafts.	Explosives.	Suffocation by gases.	Eruptions of water or falling into water.	Heavals.	Miscellaneous below ground.	Surface.	Total deaths.	Below ground.	Above ground.	Below and above ground.
Coal	113	22	55	16	22	8	...	2	22	5	17	164	1.94	.98	1.87
Mica	2	...	...	2	...	...	...	...	...	...	1	8	.92	.15	.19
Manganese	5	...	...	3	...	1	...	...	...	...	1	5	.37	.17	.30
Limestone	8	...	...	3	...	...	...	...	...	...	1	9	3.38	1.12	2.73
Gems	2	...	...	1	1	...	...	...	...	...	...	2	21.05	...	1.75
Slate	1	...	...	1	...	...	...	...	...	...	...	1	8.19	...	1.14
Gold	7	...	2	...	3	3	...	...	...	...	...	8	4.02	...	2.53
Chromite	1	...	...	...	...	1	...	...	...	...	...	1	45.45	...	21.27
Copper	1	...	...	...	1	...	...	...	...	...	...	1	4.87	...	2.94
Total 1908	135	22	57	31	27	8	...	2	22	5	20	164	1.70	.92	1.18
Total preceding year.	105	5	29	28	21	11	2	4	10	8	9	123	1.14	.16	.80
Difference	30	17	28	3	6	-3	-2	-2	12	2	11	73	.56	.10	.38

Table No. 12.

Statement of Prosecutions instituted under the Indian Mines Act (VIII of 1901) during the year ending 31st December 1908.

PROVINCE.	DISTRICT.	Number of prosecutions.	Number of persons prosecuted.	Number convicted.	REMARKS.

APPENDIX II—contd.

Table No. 13.

Number of Inspections by District and other Officers, 1908.

District and general area.	NUMBER OF MINES INSPECTED.		
	One		More than twice.
COAL.			
Bengal—			
Burdwan	4	...	...
Palamau, Daltonganj	2	...	...
Bankura	1	...	...
Manbhum, Raniganj	...	...	1
		...	1
Panjab	3	...	...
Eastern Bengal and Assam—Lakhimpur	5	...	...
Baluchistan	2	6	...
	17		
TOTAL AT COAL MINES			
MICA.			
Madras—Nellore	1	1	
MANGANESE.			
Central Provinces, Chhindwara	2	...	...
Bombay—Panch Mahals		...	...
	
TOTAL AT MANGANESE MINES			
LIMESTONE.			
Central Provinces	3	...	1
SALT.			
Panjab, Jhelum	1	...	...
JADE.			
Burma, Myitkyina	3	...	...
	28	7	3
GRAND TOTAL			

APPENDIX II—contd.

Table No. 14.

Mines opened and closed during the year ending 31st December 1908.

Province.	District.	Number of mines opened.	Number of mines closed.
A.—COAL.			
BENGAL	Hazaribagh-Giridih	2	2
	Manbhum, Jharla	32	6
	„ Raniganj	14	4
	Burdwan „	25	2
	Bankura „	1	...
TOTAL		74	14
PANJAB	Mianwali	1	2
	Jhelum	6	7
	Shahpur	1	...
TOTAL		8	9
CENTRAL PROVINCES	Chhindwara	8	...
BALUCHISTAN	Quetta	2	...
TOTAL (COAL)		87	23
B.—MICA.			
BENGAL	Hazaribagh	25	88
MADRAS	Nellore	7	12
RAJPUTANA	Ajmer-Merwara . . . . .	...	4
TOTAL (MICA) . . . . .	.....	32	104

APPENDIX II—concl'd.

Table No. 14—concl'd.

Province.	District.	Number of mines opened.	Number of mines closed.
C.—MANGANESE ORE.			
MADRAS	Vizagapatam	9	31
CENTRAL PROVINCES	Nagpur . . . . .	...	2
	Balaghat . . . . .	...	2
TOTAL		...	4
TOTAL (MANGANESE)		9	35
D.—LIMESTONE.			
CENTRAL PROVINCES	Jabalpur	9	9
E.—SLATE.			
BENGAL	Monghyr . . . . .	...	1
F.—GOLD.			
MADRAS	Anantapur	2	...
BOMBAY	Dharwar . . . . .	...	3
TOTAL (GOLD)		2	3
G.—IRON.			
BENGAL	Singhbhum	1	...
* CENTRAL PROVINCES	Jabalpur	1	1
TOTAL (IRON)		2	1
H.—CHROMITE.			
BALUCHISTAN	Quetta-Pishin . . . . .	...	1
I.—COPPER.			
CENTRAL PROVINCES	Jabalpur	1	1
BENGAL	Singhbhum	1	2
TOTAL (COPPER)		2	3
K.—JADE.			
BURMA	Myitkyina	1	3
L.—STEATITE.			
CENTRAL PROVINCES	Jabalpur	3	2

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 1908.

Registered number.	Name of mine and description of land acquired.	Name of the owner of the mine.	Date of gasetted declaration.	Name of Inspector making the enquiry.
1	Sitalpur Coal Mine— Sanctoria Brauch line of the Bengal Nagpur Railway.	Bengal Coal Co., Ltd.	.....	G. C. Leach.
4	Benahir Coal Mine— Surataur siding of the East Indian Railway (14A Seam).	Standard Coal Co., Ltd.	18th July 1903	G. F. Adams.
31	Loyabad Coal Mine— Loyabad siding of the East Indian Railway (No. 14 Seam).	Barakar Coal Co., Ltd.	11th July 1908	Ditto.
32	Tetturia Coal Mine— Tetturia North siding and the Jumoni Branch of the East Indian Railway.	New Tetturia Coal Co., Ltd.	10th August 1908	Ditto.
44	Kankani Coal Mine— Kankani assisted siding of the East Indian Railway.	Eastern Coal Co., Ltd.	5th August 1908	Ditto.
87	Kendwadih Coal Mine— Jamadoba Branch of the Bengal Nagpur Railway and assisted sidings.	Hariladih Coal Co., Ltd.	.....	Ditto.
89	Encroachment on land acquired for the Jinagora Branch of the East Indian Railway.	Gova Petha & Co., and the East Barari Coal Co.	7th September 1908	Ditto.
91	Lutchipur Coal Mine— Borachak-Sodepur Branch of the East Indian Railway.	Lutchipur Coal Co., Ltd.	.....	Jas. Grundy.
94	Ekra Khas Coal Mine— Loyabad siding of the East Indian Railway	Maharaja Manindra Chandra Nandi.	.....	G. F. Adams.
95	Simlabahal Coal Mine— Main line and Simlabahal siding of the Bengal Nagpur Railway.	Bhalgora Coal Co., Ltd.	6th June 1908	Ditto.
97	Loyabad Coal Mine— New Loyabad siding, Dhanbaid-Katrasgarh Branch of the East Indian Railway.	Barakar Coal Co., Ltd.	9th February 1909	Ditto.
99	Tentulia Coal Mine— Katras-Khanudih extension of the East Indian Railway.	Tentulia Colliery Co.	20th July 1908	Ditto.
101	Sendra Coal Mine— Kankani and Sendra sidings of the East Indian Railway.	Sendra Coal Co., Ltd.	17th August 1908	Ditto.
103	West Gopalichak Coal Mine— Extension of the Kurkend siding on the Damuda Branch of the East Indian Railway (No. 14 Seam).	Gopalichak Coal Co., Ltd.	29th August 1908	Ditto.

APPENDIX III—*contd.*Table No. 1—*concl'd.*

Inspections and enquiries made under Section 5 of the Land Acquisition (Mines) Act, 1885, during the year ending 31st December 1908—*contd.*

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.
104	Chowraai Coal Mine— Chowraai Branch and sidings of the Bengal Nagpur Railway.	Equitable Coal Co., Ltd.	.....	J. R. R. Wilson.
105	Kusunda Coal Mine— Kusunda siding, Damuda Branch of the East Indian Railway (Nos. 11 and 12 Seams).	K. M. Selected Coal Co.	31st August 1908	G. F. Adams.
103	Loyabad Coal Mine— Midnapur-Jharra extension of the Bengal Nagpur Railway.	Barakar Coal Co., Ltd.	10th November 1908	Ditto.
107	Khas Jharra Coal Mine— Bhalgora and Khas Jharra sidings of the East Indian Railway.	Khas Jharra Colliery Co., Ltd.	2nd October 1908	J. R. R. Wilson.
109	Haripur Coal Mine— Haripur assisted siding of the East Indian Railway.	Baraboni Coal Concern, Ltd.	31st December 1908	R. R. Simpson.
110	Sarthakpur Coal Mine— Toposi and Ikra Junction of the East Indian Railway.	Sudaandih Coal Co., Ltd.	.....	Ditto.
112	Chora Coal Mine— Haripur assisted siding of the East Indian Railway.	Ondal Coal Co., Ltd.	.....	Ditto.
114	Madhuband Coal Mine— Katras-Khanandih extension of the Jharra Branch of the East Indian Railway.	Jumoni Coal Co., Ltd.	4th February 1909	G. F. Adams.
115	Bhatdih Coal Mine— Mohoda-Murulidih Branch of the Bengal Nagpur Railway.	Bengal Bhatdih Coal Co., Ltd.	15th February 1909	Ditto.
116	Joyrampur Coal Mine— Jinagora siding, Jharra-Pathurdih line of the East Indian Railway.	Trikamji Jivandass & Co.	.....	Ditto.
117	Joyrampur Coal Mine— Jinagora Branch of the East Indian Railway.	Ghela Panohau & Co.	.....	Ditto.
120	Joyrampur Coal Mine— Jinagora Branch of the East Indian Railway.	Khengarji Triku	.....	Ditto.
123	Jamuria Coal Mine— Toposi to Baraboni relieving line and sidings of the East Indian Railway.	Equitable Coal Co., Ltd.	.....	G. C. Leach.

APPENDIX III—contd.

Table No. 2.

Inspections and enquiries made under Section 11 of the Land Acquisition (Mines) Act, 1885, during the year ending 31st December 1908.

Registered number	Name of mine and description of land acquired.	Name of the owner of the mine.	Date of declaration.	Name of Inspector making the enquiry.
8	Phularibad Coal Mine— Surataur joint assisted siding of the East Indian Railway.	Khas Jharia Coal Co. .	.....	G. F. Adams.
12	Kusunda and Nyadi Coal Mine— Kustore siding and the Damuda Branch of the East Indian Railway.	Kusunda and Nyadi Collieries, Ltd.	.....	Ditto.
40	Mouza Coal Mine— Ondal Loop, Toposi Branch of the East Indian Railway.	Basanti Oakdene Coal Co.	.....	R. B. Simpson.
49	Kusunda and Nyadi Coal Mine— Alkusa siding of the East Indian Railway (No. 13 Seam).	Kusunda and Nyadi Collieries, Ltd.	.....	G. F. Adams.
58	Gopinathpur Coal Mine— Land acquired for the East Indian Railway at Mugma Station.	Mugma Coal Association.	.....	G. C. Lesoh.
65	Buseerya Coal Mine— Bansdebpur siding of the East Indian Railway.	Buseerya Coal Co., Ltd. .	.....	G. F. Adams.
70	Bhowra Coal Mine— Bhowra Branch, Jharia connection line of the Bengal Nagpur Railway.	Eastern Coal Co., Ltd. .	.....	Ditto.
88	Ekra Khas Coal Mine— Ekra Khas siding of the East Indian Railway.	Maharaja Manindra Chandra Nandi.	.....	Ditto.
90	South Baraboni Coal Mine— Ikra Branch of the East Indian Railway .	South Baraboni Coal Co.	25th April 1908	R. B. Simpson.
92	Hariladh Coal Mine— Boiler Inspector's and District Board's bungalows at Bhaga.	Standard Coal Co., Ltd. .	13th June 1908	G. F. Adams.
93	Bamundha Coal Mine— Bodepur Branch of the East Indian Railway.	Damuda Coal Co., Ltd. .	9th October 1908	Jas. Grundy.
96	Chinchuria Coal Mine— Sitarampur-Ikra Branch of the East Indian Railway.	Baraboni Coal Concern, Ltd.	.....	Ditto
108	Kadmogora Coal Mine— Surataur siding of the East Indian Railway.	P. C. Roy . . .	.....	G. F. Adams.
111	Gangotia Coal Mine— Sanatoria Branch of the Bengal Nagpur Railway.	Bengal Nagpur Coal Co., Ltd.	.....	G. C. Lesoh.

APPENDIX III—*contd.*

Table No. 3.

List of plans of abandoned and discontinued mines received during the year 1908.

Registered number.	Name and situation of mine.	Name and number of seam.	Name of mineral worked.	Name of owner.	Date of abandonment or discontinuance.
36	Warora Coal Mine, Warora, C. P.	Nos. 2 and 3 Seams	Coal.	Government of the Central Provinces.	April 1906.
37	Lutohipur Coal Mine, Sitarampur, P. O.	Raghunathbatty Seam.	Coal.	Lutohipur Coal Co., Ld.	3rd October 1907.
38	Portion of Begunia, Khas Colliery, Barakar, E. I. R.	Begunia Seam	Coal.	Maharaja M. C. Nandi.	8th September 1907.
39	Charanpur Coal Mine, Charanpur, Asansol.	Poniata, Sibpur or Jairemdanga Seam.	Coal.	Apcar & Co.	April 1907.

Table No. 4.

SIBPUR COLLEGE.

THE MINING CLASSES.

Circular.

THESE classes are attached to the Overseer Section of the Apprentice Department.

General explanation.—The Mining Classes are designed to afford theoretical training in the principles of mining generally, to prepare students for positions of responsibility in coal or metal mines, and, in the case of students attending for instruction in coal mining, to qualify them to appear for the examinations of mine managers, as required by the Indian Mines Act, VIII of 1901.

The course at Sibpur for regular mining students will extend over four years. At the end of the second year the Sub-Overseer Examination is held. The specialised instruction in mining at Sibpur is given in the third and fourth years of the college course, according to the attached syllabus, and the diploma examination takes place at the end of the fourth year.

The classes are open to both regular students and special students.

Regular students—Are those who have qualified for admission by passing the Sub-Overseer Examination of the Civil Engineering College, or an equivalent test of other College.

Their age limits are 17 minimum and 19 years maximum on admission.

Special students.—Persons resident in Bengal, who have been employed upon mines, will be admitted as special students under the following conditions :—

(a) that they have completed at least two years' practical work upon a mine; and

(b) that they have passed (i) the B. Final Examination, (ii) the Matriculation or Entrance Examination of any Indian University, or (iii) any test equivalent to the Middle School Examination of the Code for European Schools.

There is no limit of age for such special students.

All applications for admission from outside candidates should be posted so as to reach the Principal's office by 1st April.

Regular students should apply in the proper form available from the Principal's office.

Special students must provide, (a) proof of educational attainments, and (b) a statement showing the nature and extent of their employment upon mines and the period thereof, supported by certificates from the mine managers under whom they have worked.

APPENDIX III—*contd.*Table No. 4—*contd.*

SCHOLARSHIPS.

For regular students.—Two scholarships of R12 monthly and three of R6 are provided. These will be awarded on the results of the Sub-Overseer Examination by the Director of Public Instruction on the recommendation of the Principal. Students trained at the Civil Engineering College or any affiliated technical school in Bengal are eligible for these scholarships. If they are on the Reduced fee list they will be charged full tuition fees.

For special students.—Two scholarships of R150 monthly for European candidates and two of R50 monthly for Indian candidates, each tenable for two years, are offered. These will be awarded annually by the Director of Public Instruction on the recommendation of the Mining Advisory Board.

Application for these scholarships should be made to the Principal of the Civil Engineering College, when applying for admission.

There is no residential accommodation available at the college for special students, scholarship-holders or otherwise: they must make their own arrangement for board and lodging, and must attend the college daily from 8 A.M. A mid-day meal will be supplied, if desired, at the college at a definite monthly charge to be fixed by the Principal.

The session begins each year on, or about, the first Monday in May. The college closes for the long vacation about the first week of August and re-opens about the end of October.

Special students must pass all college test examinations and must appear at the diploma examination held at the end of the course.

The following fees will be charged from special students:—

Caution money deposit.—R5, which will be returned on leaving the college after deducting any charge-dues owing.

Tuition fee.—R3 monthly payable for 12 months in the year.

Mid-day meal.—R10 monthly for Europeans, and R5 for Indians.

All fees become due on the 15th of the month.

Regular students, who must be residents, will be charged in full the fees noted in the Rules of the Apprentices Department.

A camp of practical mining and surveying will be held for six weeks in the cold weather of each session in the colliery districts.

SYLLABUS OF MINING COURSES.

COURSE I.

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

Classification of rocks: characteristic fossils and economic products of the principal systems.

Structure of rocks: foldings, faults, cleavage, formation of mineral veins.

Principles of geological surveying: methods employed in constructing geological maps and sections. Special reference to the Geology of India.

Mining Engineering.—(Two lectures per week.)

Boring by hand and power machines.

Sinking and lining shafts; various methods employed in special cases.

Systems of haulage, underground and aboveground, aerial rope-ways.

Hoisting, headgear, ropes, safety appliances.

Mining legislation.

Section A.—(One lecture per week).

Methods of working coal; shaft pillars, preliminary work and various methods of working the seams. Special reference to thick coal working as practised in England and different parts of the world.

Shot-firing; coal-cutting by machinery.

Surface subsidence and under-sea working;

Timbering and other supports.

Coal mine plans and sections, connecting surface and underground surveys.

Section B.—(One lecture per week.)

Prospecting for and methods of working mineral veins.

Alluvial mining and open workings.

Hydraulic mining; dredging for gold; ore-beds and deep leads overhand and underhand stopping.

Hand and power drilling; blasting; timbering.

Metal mine plans.

APPENDIX III.—*contd.*Table No. 4.—*contd.*

COURSE II.

Descriptive Mineralogy.—(One lecture per week.)

Physical properties of minerals; description of various ores and fuels; methods of determination.

Prospecting operations.

Mining Engineering.—(Two lectures per week during first-half of session.)

Drainage of mines; adit levels; pumping machinery; dams; boring against old working.

Ventilation of mines; natural and artificial ventilation; splitting and regulation of currents; types of fans; water-gauge and anemometer.

Power-application in a mine; discussion of relative merits of steam, water, compressed-air, electricity, and oil, as sources of applied power.

Section A.—(One lecture per week.)

Description of gases found in coal mines; colliery explosions; safety lamps; instruments for detecting fire-damp; treatment of men overcome by foul air.

Arrangement of surface works at a colliery; sorting and screening coals; coal-washing, briquette making, coking, and bye-products.

Section B.—(One lecture per week.)

Surface works of metal mines, sorting, crushing, sizing, and concentration of various ores. Modern ore-dressing machinery, and slime tables.

Special reference to treatment of gold, silver, copper, lead and zinc.

Cyanide and Chlorine treatment of slimes.

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.

Dishargarh Centre.

Mr. G. C. Leach.
 „ Wm. Miller.
 „ G. F. Scott.
 „ W. McFarlane.

Charanpur Centre.

Mr. R. R. Simpson.
 „ R. Mitchell.
 „ E. M. Patterson.
 „ A. Russell.

JHARIA DISTRICT.

Jharia Centre.

Mr. G. F. Adams.
 „ J. J. Turnbull.
 „ A. Gregory.
 „ A. S. Thomson.

Sijua Centre.

Mr. G. F. Adams.
 „ H. C. Veasey.
 „ E. H. Bennertz.
 „ 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 1908 and continue to the beginning of the rainy season, 1909.

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

A candidate who passes the examination will receive a certificate recording his success. 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.

Table No. 5—*concl'd.*

PART I.

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, 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 splitting.

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 detectors.

PART II.

Mechanical Engineering of Collieries.—Winding engines, discussion of the different types, calculation of the dimensions of cylinders, length of stroke, diameter of drum, etc. ; 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 pump ; 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 haulage engines, ropes, etc. ; signalling ; capping of haulage ropes.

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 steels : 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 coal-mines made under Section 20 of the Indian Mines Act, 1901, for the conduct of examinations for managers' 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.

APPENDIX III—contd.

Table No. 6—concl'd.

- (3) So far as is practicable, the local examiners shall be :—
- An Inspector of Mines, who shall be Secretary to the local examiners.
 - 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 ₹150 for each examination, and a capitation fee of ₹2 for each first class candidate and ₹1 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 :—
- Arithmetic and handwriting.*
 - 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.
 - 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.
 - 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.
- (7) The following shall be the maximum number of marks given for each subject :—

SUBJECT.	FIRST CLASS.			SECOND CLASS.		
	Papers.	Viva voce.	Total.	Papers.	Viva voce.	Total.
(a) Arithmetic and handwriting	50	...	50	50	...	50
(b) Mining	160	60	220	140	80	220
(c) Mechanics	110	40	150	100	50	150
(d) Indian Mines Act	60	20	80	50	30	80
TOTAL	380	120	500	340	160	500

(8) No candidate who fails to obtain 66 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.

NAME.	No of Indian certificate.	Date of Indian certificate.	No. of English certificate.	Date of English certificate.
Dundas, Robert Henry	88	5th January 1908	2709	21st December 1905.
Colvin, William	89	Ditto	2983	14th June 1907.
Archdale, Hewan	90	Ditto	2830	18th January 1904.
Fenwick, Ralph (Junior)	91	Ditto	2780	12th June 1906.
Field, Benjamin Starks	92	Ditto	2587	22nd February 1905.
Purdy, Richard	93	17th February 1908	2242	16th June 1903.
Samson, Thomas	94	Ditto	2469	8th June 1904.
Benson, Frederick Stanley	95	Ditto	2489	26th August 1904.
Howes, Francis Tippet	96	20th April 1908	170	8th July 1899.
Anderson, David A.	97	Ditto	1844	19th June 1901.
Gillespie, Alexander	98	Ditto	2992	14th June 1907.
Parker, Joseph	99	Ditto	1896	11th June 1898.
Brimlow, Percy	100	Ditto	2301	8th January 1904.
Wilson, John Robert Robinson	101	Ditto	1850	27th December 1883.
Brown, James	102	Ditto	1702	19th June 1908.
Gibson, Tom Schofield	103	Ditto	2665	27th June 1905.
Wilson, John	104	7th June 1908	1891	19th June 1901.
Mason, James	105	Ditto	1675	19th June 1901.
Lamont, James	106	Ditto	2999	14th June 1907.
Duffy, Charles	107	Ditto	2755	27th February 1903.
Brown, John	108	Ditto	2977	14th June 1907.
Stafford, Thomas H. (Junior)	109	Ditto	1983	27th February 1902.
Vickers, Percy George	110	Ditto	1767	17th November 1900.
Spence, David	111	Ditto	862	12th January 1895.
Naysmith, Gilbert	112	Ditto	3039	14th June 1907.
Robinson, Frederic Haldyn	113	14th July 1908	1690	28rd February 1903.
Paddon, Neville Blackmore	114	Ditto	2878	17th November 1906.
Williams, Arthur Hamilton	115	Ditto	2972	11th June 1907.
Ritchie, John Malcolm	116	29th July 1908	3015	14th June 1907.
MacKenzie, James Thomson	117	Ditto	2150	8th June 1904.
McMurtrie, Stuart	118	Ditto	1987	9th May 1902.
Kirk, John	119	Ditto	2927	14th June 1907.
Bayne, John Archibald Campbell	120	Ditto	2611	5th June 1905.

APPENDIX III—*contd.*Table No. 7—*contd.*List of holders of certificates as Managers of Coal Mines in British India—*contd.*

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

FIRST CLASS.

NAME.	No. of Indian certificate.	Date of Indian certificate.	No. of English certificate.	Date of English certificate.
Conn, David	121	29th July 1908 . . .	2882	31st December 1906.
Hunter, John	122	26th August 1908 . . .	2995	14th June 1907.
Allardyce, Archibald	123	Ditto	1928	31st December 1901.
Tarleton, Henry Myles	124	Ditto	2558	10th January 1905.
Greener, William James	125	Ditto	2306	8th January 1904.
Elves, Edward	126	1st December 1908 . . .	985	1st October 1895.
Kirkwood, James	127	Ditto	2339	18th January 1904.
Owen, Lewis	128	Ditto	2963	11th June 1907.
Ashley, Theodore	129	Ditto	2911	22nd February 1907.
Fullwood, Joshua Henry	130	Ditto	1802	10th January 1901.
Bullock, Victor	131	Ditto	2286	23rd November 1903.
Mackie, James	132	Ditto	3150	11th June 1908.
Martin, George Stewart	133	Ditto	3153	Ditto.
Greenshields, Thomas Marshall	134	Ditto	2781	12th June 1906.

SECOND CLASS.

Leslie, John Thomas	11	20th April 1908 . . .	5768	15th November 1905.
Briggs, William Alexander	12	Ditto	5182	17th February 1904.
Porteous, William	13	7th June 1908 . . .	5644	5th June 1905.
Ross, Ralph	14	Ditto	1460	19th February 1892.
Mitchell, George Kellock	15	Ditto	5260	8th June 1904.
Ramsay, Robert Erskine	16	Ditto	5646	5th June 1905.

APPENDIX III—*contd.*Table No. 7—*contd.*List of holders of certificates as Managers of Coal Mines in British India—*contd.*

(b) Certificates of Service.

FIRST CLASS.

NAME.	No. of certificate.	Date of certificate.	REMARKS.
Seton-Burn, William Frank	125	5th January 1908.	
Mukherji, Joyanta Kumar	126	17th February 1908.	
Chatterji, Nishapati	127	20th April 1908.	
Perkins, George William	128	Ditto.	
Mukherji, Romesh Chandra	129	7th June 1908.	
Mukherji, Mahananda	130	1st December 1908.	
Sarkar, Bidhu Bhusan	131	Ditto.	

SECOND CLASS.

Mukherji, Surendra Nath	161	5th January 1908.	
Chopin, James Cecil	162	Ditto.	
Misra, Mukunda Lal	168	17th February 1908.	
Stanford, William Bryant	164	Ditto.	
Smith, William Spencer Gorham	165	Ditto.	
Sarkar, Rajendra Lal	166	Ditto.	
Banerji, Pashupati	167	Ditto.	
Das, Gonesh (Vig.)	168	20th April 1908.	
Roy, Narendra Nath	169	Ditto.	
Tah, Bakhal Das	170	7th June 1908.	
Sarkar, Sures Chandra	171	Ditto.	
Chatterji, Kashipati	172	Ditto.	
Hazra, Jnanendra Nath	173	Ditto.	
Bhattacharya, Kenaram	174	Ditto.	
Chatterji, Manindra Nath	175	Ditto.	
Mukherji, Bepin Bihari	176	Ditto.	
Roy, Nilkanta	177	14th July 1908.	
Dutta, Manindra Nath	178	29th July 1908	Duplicate granted on 1st December 1908.
Lalla, Ramdin	179	Ditto.	
Marwari, Fulchand	180	Ditto.	
Roy, Kedar Nath	181	1st December 1908.	
Ghosh, Pratap Chandra	182	Ditto.	

APPENDIX III—*contd.*Table No. 7—*contd.*List of holders of certificates as Managers of Coal Mines in British India—*contd.*

(c) Certificates of Competency.

FIRST CLASS.

NAME.	No. of certificate.	Date of certificate.	REMARKS.
Rowley, John Thomas	19	5th January 1908.	
Morrison, Thomas	20	Ditto.	
David, Charles John Evan	21	Ditto.	
Wiley, Edward	22	Ditto.	
Oliver, James Arthur	23	Ditto.	
Cooper, Frank	24	Ditto.	
Wilkinson, H. Llewellyn	25	Ditto.	
Barnard, William	26	Ditto.	
Munroe, Martin	27	Ditto.	
Howarth, Willis	28	Ditto.	
Rooke, John	29	Ditto.	
Piggford, Henry G.	30	Ditto.	
Cork, Frederick Lawrence (Junior)	31	Ditto.	
Ghatak, Gouri Sanker	32	Ditto.	
Mukherji, Bhupaty	33	Ditto.	
Sarkar, Narendra Nath	34	26th August 1908.	
Mitchell, Andrew Ireland	35	Ditto.	
Adamson, Harry	36	Ditto.	
Das, Romes Chandra	37	Ditto.	
Mitchell, George Kellook	38	Ditto.	
Nash, Ernest George	39	Ditto.	

SECOND CLASS.

Maughan, John Victor	11	5th January 1908.	
Datta, Aswini Kumar	12	Ditto.	
Waddell, William Shand	13	Ditto.	
Tweedie, Charles Hungerford Lane	14	Ditto.	
Kitchen, Hubert	15	Ditto.	
Brown, Jacob	16	Ditto.	
Mukherji, Hari Prafulla	17	Ditto.	
Simpson, Thomas	18	Ditto.	
Chatterji, Pravakar	19	Ditto.	
McInerney, Michael Edward	20	Ditto.	

APPENDIX III—*concl.*Table No. 7—*concl.*List of holders of certificates as Managers of Coal Mines in British India—*concl.*(c) Certificates of Competency—*concl.*SECOND CLASS—*concl.*

NAME	No. of certificate.	Date of certificate.	REMARKS.
Mazumder, Kanderpa Mohan	21	5th January 1908.	
Loving, Osmond Davies	22	Ditto.	
Nash, Ernest George	23	Ditto.	
Sarkar, Narendra Nath	24	Ditto.	
Bullock, James	25	Ditto.	
Bhar, Ananta Ram	26	Ditto.	
Rooke, Reginald George	27	Ditto	Having obtained a certificate in the last examination, this certificate was withheld.
Mukherji, Tarak Nath	28	26th August 1908.	
Jones, Allan A. Dennis	29	Ditto.	
Malcolm, Robert Wright	30	Ditto.	
Cox, Henry Moncrieff	31	Ditto.	
Lethorn, Frederick Edwards	32	Ditto.	
Ghani, Mahomed Osman	33	Ditto.	
Powell, Trevor Gerald	34	Ditto.	
Dutta, Ashutosh	35	Ditto.	
Dholakie, Jhaverilal Kalyanrai	36	Ditto.	

APPENDIX III - *contd.*

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.

APPENDIX III—*concl'd.*

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, Raneehi 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.	

APPENDIX IV.

ADDITIONS TO THE ACT.

No. 9702—181.

GOVERNMENT OF INDIA.

DEPARTMENT OF COMMERCE AND INDUSTRY.

GEOLOGY AND MINERALS.

NOTIFICATION.

Simla, the 23rd October 1908.

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 direct that for the Provisos to rules 32 and 33 of the rules regarding Mine Managers' certificates published with Notification No. 2968-82, dated the 21st April 1906, the following shall be substituted, namely:—

Proviso to Rule 32.—Provided that this period shall be reduced to four years, and may, if the Board of Examiners think fit, be further reduced to three years, in the case of a candidate who has received a diploma in scientific and mining training after a course of study of at least two years at an educational institution approved in this behalf by the Governor General in Council, or who has taken a degree in scientific and mining subjects at a University approved in this behalf by the Governor General in Council.

Proviso to Rule 33.—Provided that this period shall be reduced to two years, and may, if the Board of Examiners think fit, be further reduced to one year, in the case of a candidate who has received a diploma in scientific and mining training after a course of study of at least two years at an educational institution approved in this behalf by the Governor General in Council, or who has taken a degree in scientific and mining subjects at a University approved in this behalf by the Governor General in Council.

B. ROBERTSON,

Secretary to the Government of India.

No. 9710—9724—181.

A copy is forwarded to the Governments of Madras, Bombay, Bengal, the United Provinces, the Panjab, Burma, Eastern Bengal and Assam, the Hon'ble the Chief Commissioner, Central Provinces, the Chief Commissioner, Coorg, the Chief Commissioner, Ajmer-Merwara, the Hon'ble the Agent to the Governor General and Chief Commissioner, North-West Frontier Province, the Hon'ble the Agent to the Governor General in Baluchistan.

A copy is also forwarded to the ^{Railway Department} Director, Geological Survey of India, for information,
Chief Inspector of Mines in India

By order, etc.,

H. C. GOWAN,

Offg. Under Secretary to the Government of India.

APPENDIX IV—*contd.*

No. 11798—103.

GOVERNMENT OF INDIA.

DEPARTMENT OF COMMERCE AND INDUSTRY.

NOTIFICATION.
GEOLOGY AND MINERALS.*Dated Calcutta, the 30th December 1908.*

In exercise of the powers conferred by section 20 of the Indian Mines Act, 1901 (VIII of 1901), the Governor General in Council is pleased to make the following rules for the whole of British India in respect of all mines.

No. 302—85-5, dated 27th January 1904.
No. 3952—86, dated 10th May 1907.
No. 7861—86, dated 19th September 1907.
No. 10014—100, dated 4th December 1907.

The notifications noted on the margin are hereby cancelled.

1. Forms I, II, III, and IV in the Schedule hereto annexed shall be ⁽¹⁾ filled up in duplicate by the agent, or, if there is no agent, by the owner or manager of a mine, and one copy of each shall be forwarded to the Chief Inspector of Mines and the other to the District Magistrate not later than the 1st February ⁽²⁾ in each year.

Annual returns.
2. 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.

Notice of abandonment.
3. 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.

Notice of re-opening.
4. 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.

Change of name of owner, or of mine.
5. If the owner, agent or manager of any mine intends to extend any mining operations 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 Administrations concerned notice in writing of his intention so to do sixty days before the commencement of such extension.

Notice of extension to vicinity of railway.
6. If the operations in respect of which notice is given under rule 5 are not commenced within twelve months from the expiry of the period of sixty 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 of the mine, under rule 5.

Expiry of notice under rule 5.
7. The notice to be given under rule 5 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 out the 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.

Particulars to be given in notice under rule 5.

(1) Under section 22 (2) (b) of the Indian Mines Act, failure to forward correct returns to the Chief Inspector of Mines not later than 1st February in each year will render the agent, owner 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 returns are despatched as soon as possible after the close of the year.

APPENDIX IV—*contd.*

FORM III.

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

Name or No. of pit, plot or excavation.	Depth from the surface of the lowest point of the seam or vein worked in feet.	Name of mineral worked.	(1) Total amount of mineral raised. (3)	(2) Total value at the mine of mineral raised. (3)	Number of days worked.	IN CASE OF COAL MINES.			
						Number of coke ovens.	TONS OF COKE PRODUCED.		Kind of ovens.
							In open heaps.	In ovens.	
1	2	3	4	5	6	7	8	9	10
TOTAL									

- (1) Including, in the case of coal mines, coal raised for colliery consumption or made into coke, and stated—
 (a) in the case of gold—in troy ounces;
 (b) in the case of gem-stones—in carats;
 (c) in the case of alum, amber, asbestos, chromite, corundum (not being gem corundum), graphite, jadestone, mica, steatite and tin ore—in cwts., or where the circumstances require greater particularisation in order to give an accurate estimate of small outputs, in cwts. and lbs.;
 (d) in the case of clays, coal, coke, iron-ore, limestone, magnesite, manganese ore, other unspecified metalliferous ores, salt and slate—in tons.
- (2) Actual or estimated wholesale price at pit's mouth, cost of loading, if any, being deducted.
- (3) Figures for mica should relate to the quantity and value of marketable mica consigned.

FORM IV.

Accidents and Inspections.

NO. OF SEPARATE ACCIDENTS REPORTED DURING THE YEAR.			NO. OF PERSONS.		No. of prosecutions under the Act, with the section under which the prosecution was instituted.	No. of persons convicted under the Act, with the sections under which the convictions were obtained.	NO. OF INSPECTIONS.		
Fatal.	Serious.	Total.	Killed.	Seriously injured.			By District Officers.	By Mines Inspector.	Total.
1	2	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 left blank by Mine Agents or Owners.

Signature of Agent,
Owner, or Manager. }

APPENDIX IV—*conold.*

No. 11794—11809—108.

Copy forwarded 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 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 Chief Commissioner of Coorg.
 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.

A copy is also forwarded to the

Finance Department
Chief Inspector of Mines in India
Railway Department
Secretary, Indian Mining Association

, for information (in contin-

() to Bengal and Chief Inspector of Mines vation of the endorsement from this Department,
 only. No. 8707-8708—108, dated the 17th September
 1908).

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.

Serial number.	Name 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 Mine.	Name of Manager, and No. and Class of his Certificate, Authorization or Permit.	Name of Assistant Manager and No. and Class of his Certificate.	Name and address of Managing Agent.	Date of establishment of Special Rules.	PERSONS EMPLOYED		REMARKS.
								Below ground.	Above ground.	
Bengal-Jharia Coalfield (No. 1 Inspection Circle).										
1	A. B. C. Coal Co. (A. M. Arathoon, T. C. Barker and C. M. Carapiet). (See column No. 7).	Bhatmurna .	Bhatmorna, Katrasgarh, E. I. R.	H. Corp . . . . .	...	A. M. Arathoon, 3, Rawdon Street, Calcutta.	...	3	53	T. C. Barker, Agent.
2		Jamua	Jamua, Katrasgarh, E. I. R.							
3	Agabeg Bros. (See column No. 7).	Jogta (4 mines).	Jogta, Sijua, E. I. R.	S. McMurtrie, 1st class competency, No. 118, in lieu of English certificate. Authorization, No. 245, to act as manager of more than one mine.	...	...	...	603	215	
4	Agarwala, Ghausham Das Jharia P. O.	Sonalabad	Sonalabad	Jnanendra Nath Mukherji, 1st class service, No. 91. Authorization, No. 523, to act as manager of more than one mine.	...	...	...	37	18	
5	Agarwala, Jagannath Ramjus Jharia P. O.	Khas Jharia	Khas Jharia, Jharia, E. I. R.	Girendra Narain Mukherji, 2nd class service, No. 116.	...	...	...	62	38	
6		Khas Jharia (New)		Monji Nenji Permit, No. 157.	...	...	...	15	18	
7	Agarwala, Lachmi Narayan Jharia P. O.	Godhur (West)	Godhur, Kusunda, E. I. R.	Kazi Kasfuddin Ahmed Permit, No. 225.	...	...	...	14	18	
8	Agarwala, Ramjus Jharia P. O.	Chandrabad (2 mines).	Chandrabad, Jharia, E. I. R.	K. N. Bose, 2nd class service, No. 152.	...	...	...	15	20	
9		Futtehpur	Futtehpur, Jharia, E. I. R.							
10	Aldih Coal Co., Ltd. (See column No. 7).	Bhutgoria	Bhutgoria, Jharia, E. I. R.	F. L. Cork (Jr.), 1st class competency, No. 31. Authorization, No. 285, to act as manager of more than one mine.	...	MacNeill & Co., 2, Olive Ghat Street, or Post Box No. 15, Calcutta.	...	375	104	
11	Angarpatra Coal Co., Ltd. (See column No. 7).	Angarpatra	Angarpatra, Katrasgarh, E. I. R.	W. A. Hockly, 1st class service, No. 39	...	Hoare, Miller & Co., 98, Strand, or Post Box No. 68, Calcutta.	...	630	380	Lately owned by J. N. Bose. Lately owned by Mr. W. A. Hockly.
12		Kantapahari	Kantapahari, Katrasgarh, E. I. R.							
13		Ramkanali	Ramkanali, Katrasgar . I. R.							

14	Angarpatra Colliery Co. (Virgi Akhai & others). Katrasgarh P. O.	Angarpatra .	Angarpatra, Katrasgarh, E. I. R.	Parshotam Bhimji, <i>1st class service, No. 65.</i>	...	...	208	36	
15		Kantapahari	Kantapahari, Katrasgarh, E. I. R.		...	...	
16	Angarpatra (North) Coal Co. (G. F. Hazra and others). Katrasgarh P. O.	Angarpatra (North)	Kesalpur, Katrasgarh, E. I. R.	Indu Bhusan Bhatta	...	Kali Charan Dutt & Co., 51, Clive Street, Calcutta.	...	...
17	Angarpatra (South) Coal Co. (Bejoy Krishna Banerji & Son) 22, Nayanchand Dutt Street, Calcutta.	Kantapahari	Kantapahari, Katrasgarh, E. I. R.	J. K. Chowdhuri	...	...	23	15	
18	Auckland Coal Co., Ltd. (See column No. 7).	Nudkhurki (East)	Nudkhurki	J. Rowley, <i>1st class competency, No. 19. Authorization, No. 259, to act as manager of more than one mine.</i>	...	Lysal, Marshall & Co., 25, Mangoe Lane, or Post Box No. 6, Calcutta.	...	245	350
19	Asam, Masihal Kusunda P. O.	Godhur (Central)	Godhur, Kusunda, E. I. R.	Sayed Masudal Haq	...	...	...	10	14
20	Bagchi, R. N. Jharis P. O.	Dobari (5 mines).	Dobari, Jharis, E. I. R.	Trivanga Chakravarty, <i>3rd class service, No. 36. Authorization, No. 136, to act as manager of more than one mine.</i>	...	...	...	63	79
21	Bagdiggi-Kujama Collieries, Ltd. (See column No. 7).	Bagdiggi	Bagdiggi, Jharis, E. I. R.	Keshab Chandra Sarkar, <i>3rd class service, No. 25.</i>	...	M. L. Laik and Banerji, 7, Swallow Lane, or Post Box No. 141, Calcutta.	...	...	...
22		Kujama (South)	Kujama, Jharis, E. I. R.	Tarak Nath Mukherji, <i>3rd class competency, No. 28.</i>						...	...	130	68
23	Bamongarah Coal Co., Ltd. (See column No. 7).	Bamongarah	Bamongarah	R. B. Vogel <i>Permit, No. 233.</i>	...	Octavius Steel & Co., 14, Old Court House Street, or Post Box No. 55, Calcutta.	...	18	45
24	Banerji & Co., Harish Chandra Katrasgarh P. O.	Chandore	Chandore, Sijua, E. I. R.	Krishna Chandra Ghosal, <i>Permit, No. 94.</i>	...	...	...	22	6
25	Banerji, Bopin Behari . Katrasgarh P. O.	Kesalpur (New)	Kesalpur, Katrasgarh, E. I. R.	Rajendra Nath Biswas, <i>Permit, No. 128.</i>	..	...	...	42	10
26	Banerji's Coal Concern, J. L. (See column No. 7).	Surataur (New)	Jharis Khav, Jharis, E. I. R.	Charu Chandra Mukherji, <i>1st class service, No. 104. Authorization, No. 299, to act as manager of more than one mine.</i>	...	M. L. Laik and Banerji, 7, Swallow Lane, or Post Box No. 141, Calcutta.	...	113	101

APPENDIX V—*contd.*

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

Serial number.	Name 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 Mine.	Name of Manager, and No. and Class of his Certificate, Authorization or Permit.	Name of Assistant Manager and No. and Class of his Certificate.	Name and address of Managing Agent.	Date of establishment of Special Rates.	PERSONS EMPLOYED		REMARKS.
								Below ground.	Above ground.	
Bengal-Jharia Coalfield (No. 1 Inspection Circle)—<i>contd.</i>										
27	Bansdeopur Coal Co. (P. H. Creet). C/o Martin & Co., Calcutta.	Bansdeopur	Bansdeopur, Kusunda, E. I. R.	G. H. Creet, <i>1st class service, No. 43.</i>	...	...	...	...	...
28	Bansjora Coal Co. (See column No. 7).	Bansjora (5 mines).	Bansjora, Sijua, E. I. R.	G. F. W. Bapty, <i>1st class competency, No. 3. Authorization, No. 163, to act as manager of more than one mine.</i>	...	McLeod & Co., 31, Dalhousie Square, South, or Post Box No. 78, Calcutta.	...	289	222	
29	Barakar Coal Co., Ltd. (See column No. 7).	Loyabad (10 mines).	Loyabad, Kusunda, E. I. R.	B. S. Field, <i>1st class service, No. 92. Authorization, No. 324, to act as manager of more than one mine.</i>	...	Bird & Co., 101-1, Clive Street, or Post Box No. 46, Calcutta.	...	769	597	
30	Barakar (North) Coal Co. Jharia P. O.	Lodna	Lodna, Jharia, E. I. R.	Joy Krishna Mitter, <i>1st class service, No. 40.</i>	...	...	...	570	180	
31	Barari (East) Coal Co. (Tritumji Jiban Dase), 25, Pollock Street, Calcutta.	Jinagora	Jinagora, Jharia, E. I. R.	Govardhan Dass Manishanker, <i>1st class service, No. 76. Authorization, No. 45, to act as manager of more than one mine.</i>	...	...	...	207	52	
32		Parbad	Parbad, Jharia, E. I. R.		...	...	...	49	20	
33	Barwabera (New) Coal Co. (Khitai Bhusan Mukherji) Jharia P. O.	Barwabera	Barwabera	Ram Moy Mukherji <i>Permit, No. 79.</i>	...	...	...	83	15	
34	Beebhum (New) Coal Co., Ltd. (See column No. 7).	Banatakola (3 mines).	Banatakola, Jharia, E. I. R.	Josiah Thomas, <i>1st class competency, No. 80, in lieu of English certificate. Authorization, No. 120, to act as manager of more than one mine.</i>	...	Balmer, Lawrie & Co., 103, Clive Street, or Post Box No. 4, Calcutta.	...	71	60	
35	Bengal Bhatdih Coal Co., Ltd. (See column No. 7).	Bhatdih (3 mines).	Muruldih, Katrasgarh, E. I. R.	Martin Munroe, <i>1st class competency, No. 27. Authorization, No. 295, to act as manager of more than one mine.</i>	...	Andrew Yule & Co., 8, Clive Row, or Post Box No. 150, Calcutta.	...	135	145	

86	Bengal (Central) Coal Co., Ltd. (See column No. 7).	Kantapahari (West)	Kantapahari, Katraagarh, E.I.R.	Meghji Bhimji Bellie, <i>2nd class service, No. 85.</i>	...	...	67	15
87	Bengal Coal Co., Ltd. (See column No. 7).	Murulidih	Murulidih, Mohoda, B. N. R.	H. M. Bull, <i>1st class service, No. 23. Authorization, No. 212, to act as manager of more than one mine.</i>	...	Andrew Yule & Co., 8, Clive Row, or Post Box No. 150, Calcutta.	623	373
88	Bengal Iron & Steel Co., Ltd. (See column No. 7).	Noonoodih	Noonoodih, Jharis, E. I. R.	J. H. Stewart, <i>1st class competency, No. 72, in lieu of English certificate. Authorization, No. 255, to act as manager of more than one mine.</i>	...	Martin & Co., 6 & 7, Clive Street, or Post Box No. 23, Calcutta.	247	71
89	Bengal Nagpur Coal Co., Ltd. (See column No. 7).	Bhuggudih (4 mines).	Bhuggudih, Jharis, E. I. R.	W. O. Mitchell, <i>1st class service, No. 9. Authorization, No. 108, to act as manager of more than one mine.</i>	...	Andrew Yule & Co., 8, Clive Row, or Post Box No. 150, Calcutta.	596	375
40	Bhalgora Coal Co., Ltd. (See column No. 7).	Bhalgora	Bhalgora, Jharis, E. I. R.	J. B. Wardlaw, <i>1st class competency, No. 73, in lieu of English certificate.</i>	...	Sircar, Barnard & Co., 2, New China Bazar Street, or Post Box No. 286, Calcutta.	410	268
41		Simlabahal	Simlabahal, Jharis, E. I. R.	G. G. Castles	...		282	164
42	Bhattacharji, Ram Nath Kusunda P. O.	Godhur	Godhur, Kusunda, E. I. R.	Sripntty Paul <i>Permit, No. 221.</i>	...	...	15	10
43	Bhattacharji, U. C. Sijua P. J.	Pandedih	Pandedih, Sijua, E. I. R.	U. C. Bhattacharji <i>Permit, No. 149.</i>	...	...	14	5
44	Bhulanbarari Coal Co., Ltd. (See column No. 7).	Bhulanbarari (6 mines).	Bhulanbarari, Jharis, E. I. R.	F. W. Heilgers, <i>1st class service, No. 18. Authorization, No. 326, to act as manager of more than one mine.</i>	...	F. W. Heilgers & Co., 186, Canning Street, or Post Box No. 165, Calcutta.	590	448
45	Bilbera Coal Co., Ltd. (See column No. 7).	Bilbera	...	Purna Chandra Ganguli, <i>2nd class service, No. 49. Authorization No. 325, to act as manager of more than one mine.</i>	...	N. C. Sircar & Sons, 5, Clive Ghat Street, or Post Box No. 285, Calcutta.	38	177
46	Birwa, P. K. Katraagarh P. O.	Ramkanali	Ramkanali, Katraagarh, E.I.R.	...	...	...	...	...
47	Boga & Co., Kusunda P. O.	Dhanar	Dhanar	H. F. Mehta, <i>Permit, No. 201.</i>	...	...	14	6

E. Barnard, Superintending Engineer.

APPENDIX V—contd.

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

Serial number.	Name 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 Mine.	Name of Manager, and No. and Class of his Certificate, Authorisation or Permit.	Name of Assistant Manager and No. and Class of his Certificate.	Name and address of Managing Agent.	Date of establishment of Special Rules.	PERSONS EMPLOYED		REMARKS
								Below ground.	Above ground.	
Bengal-Jharia Coalfield (No. 1 Inspection Circle)—contd.										
48	Borra Coal Co., Ltd. (See column No. 7).	Bhagaband (5 mines).	Bhagaband, Jharia, E. I. R.	S. H. Seddon, 1st class service, No. 79. Authorisation, No. 106, to act as manager of more than one mine.	...	F. W. Heilgers & Co., 136, Canning Street, or Post Box No. 185, Calcutta.	...	652	403	
49	Boss, J. N. 20, Baranasi Ghose's Street, Calcutta.	Kesalpur	Kesalpur, Katrasgarh, E. I. R.	.....	...	...	...	73	28	
50	B. E. & N. Coal Co. Jharia P. O.	Joyrampur	Joyrampur, Jharia, E. I. R.	Bira Mavji, 2nd class service, No. 99.	Boja Valgi	...	...	54	33	
51	Budruchak Coal Mining Co., Ltd. (See column No. 7).	Budruchak (6 mines).	Budruchak, Sijua, E. I. R.	J. W. Nierces, 1st class service, No. 19. Authorisation, No. 151, to act as manager of more than one mine.	...	Arsthoon, Ltd., 1, Vansittart Row, or Post Box No. 217, Calcutta.	...	148	80	
52	Bullhari Coal Co. (Seth Ranchhodas Jiwandas). Jharia P. O.	Bullhari	Bullhari, Jharia, E. I. R.	Seth Haridas Naithu, 1st class service, No. 108.	...	...	...	185	129	
53	Burragarh Coal Co., Ltd. (See column No. 7).	Burragarh	Burragarh, Jharia, E. I. R.	Gouri Sanker Ghattak, 1st class competency, No. 52. Authorisation, No. 500, to act as manager of more than one mine.	...	N. C. Sircar & Sons, 5, Clive Ghat Street, or Post Box No. 285, Calcutta.	...	198	104	
54	Busserya Coal Co., Ltd. (See column No. 7).	Busserya	Busserya, Kusunda, E. I. R.	Butto Kristo Dash, 2nd class service, No. 94.	...	Bhola Nath Dash & Co., Lalbagan, Chandernagore P. O.	...	196	110	
55	Chandore Coal Co. (B. Roy & others). Katrasgarh P. O.	Chandore (2 mines).	Chandore, Katrasgarh, E. I. R.	Dhon Kristo Mazumdar, Permit, No. 126.	...	...	...	44	14	

56	Chandra, Girish Chandra Katrasgarh P. O.	Ramkanali (2 mines).	Ramkanali, Katrasgarh, E. I. R.	Nagendra Nath Das, Permit, No. 46. Authorisation, No. 126, to act as manager of more than one mine.	...	...	...	...	...
57	Chandra, Haremal Ram Katrasgarh P. O.	Tettulia (2 mines).	Tettulia, Katrasgarh, E. I. R.	Jogadamba Prasad Lal, 2nd class service, No. 53. Authorisation, No. 32, to act as manager of more than one mine.	...	...	...	85	10
58	Chatterji, Singh & Co. (Rajendra Nath Chatterji & Gour Mohan Singh). Nowagarh E. O.	Borora	Borora	Ramesh Chandra Das Gupta. Permit, No. 111.	...	...	...	5	10
59	Chota Nagpur, Maharaja Behadur. Banchi P. O.	Amlabad	Amlabad, Bhojudih, E. N. R.	Mukunda Lal Misra, 2nd class service, No. 163.	...	F. Chandhuri Dhanbaid,	...	...	...
60	Choudhuri, Satya Taran Sijua P. O.	Dhobakhara Incline No. 1.	Dhobakhara	Kulada Prasad Das Gupta.	...	...	}	4	25
61		" " 4.		Ramavatar Singh	...	...		4	30
62		Lutipahari		Lutipahari	Satya Taran Choudhuri	86	13
63	Chuni Lal Coal Co. Kusunda P. O.	Bullari	Bullari, Kusunda, E. I. R.	Abola Bandhu Roy Chowdhury. Authorisation, No. 61, to act as temporary manager.	...	...	...	93	33
64	Chotto Lal Kutchi Sijua P. O.	Pandedih	Pandedih, Sijua, E. I. R.	.....	...	...	...	...	...
65	C. M. & Co. (Chimanlal Mangaldas Kesban Lal Parakh). Katrasgarh P. O.	Kendwadih	Kendwadih	D. A. Anderson, 1st class competency, No. 97, in lieu of English certificate. Authorisation, No. 272, to act as manager of more than one mine.	...	...	...	41	15
68		Koradih	Koradih, Khanudih, E. N. R.		...	...	...	10	10
67	Commercial Syndicate 16-1, Canning Street, Calcutta.	Lakshmi	Godbur, Kusunda, E. I. R.	Manmotha Nath Mukherji, Permit, No. 101.	...	...	...	...	...
68	Das, L. H. Jharis P. O.	Kujama	Kujama, Jharis, E. I. R.	Lira Walji, 1st class service, No. 107.	...	...	...	121	101
69		Pandeybers	Kujama, Jharis, E. I. R.		...	...	...	60	29

APPENDIX V—contd.

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

Serial number.	Name 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 Mine.	Name of Manager, and No. and Class of his Certificate, Authorization or Permit.	Name of Assistant Manager and No. and Class of his Certificate.	Name and address of Managing Agent.	Date of establishment of Special Rules.	PERSONS EMPLOYED		REMARKS.
								Below ground.	Above ground.	
Bengal-Jharia Coalfield (No. 1 Inspection Circle)—contd.										
70	Das, Ram Adra P. O.	Barahmasia .	Muraidih	Nilmadhab Ghosh .	...	...	...	9	12	
71	Deoji Goa & Co.	Jinagora .	Jinagora, Jharia, E. I. R.	.....	...	...	...	...	...	Previously owned by K. J. Chuckerbutty.
72	Dheriajoba Coal Co. (Srimotyia Jogat Mohini Dass). 53, Mirzapur Street, Calcutta.	Dheriajoba .	Dheriajoba, Kusunda, E. I. R.	Gopinath Chatterji, 2nd class service, No. 12.	...	...	...	51	25	
73	Dharmaband Coal Co. (D. N. Bose & Brothers), 38, Strand Road, Calcutta.	Dharmaband .	Dharmaband	Gosto Behari Roy, 2nd class service, No. 124.	...	...	...	..	...
74	Dobari Coal Co. (Satya Kinkar Sabana & Karuna Kinkar Sabana) (See column No. 7).	Dobari .	Dobari, Jharia, E. I. R.	Natabar Dass, 2nd class service, No. 96. Authorization, No. 137, to act as manager of more than one mine.	...	Woomesh Chander Banerji, 38, Chuna- pukur Lane, Calcutta.	...	9	5	
75		Ganhudi .	Ganhudi . . . . .	...	...		...	51	9	
76	Dosa & Co., G.K. (Dosa, Ganji & Khunji) Jharia P. O.	Futtehpur .	Futtehpur, Jharia, E. I. R.	Ganji Dosa, 2nd class service, No. 127.	...	...	...	21	15	
77	Dumra Coal Co. Nowagarh P. O.	Pinalgoria .	Pinalgoria	Ram Recha Singh Permit, No. 131.	...	...	...	28	30	
78	Dutt, B. L. Katragarh P. O.	Ramkanali .	Ramkanali, Katragarh, E. I. R.	Bihari Lall Dutt, 1st class service, No. 70.	...	...	...	18	3	
79	East Indian Coal Co., Ltd. (See column No. 7).	Brahmanbarari & Bhulanbarari.	Brahmanbarari & Bhulan- barari, Jharia, E. I. R.	T. Adamson, 1st class competency, No. 14, in lieu of English certificate.	E. Miller	Jardine, Skinner & Co., 4, Clive Row, or Post Box No. 51, Calcutta.	...	890	575	J. J. Turnbull, Agent.
80		Bulliar and Khaira.	Bulliar & Khaira, Kusunda, E. I. R.	R. G. M. Bathgate, 1st class compe- tenoy, No. 8, in lieu of English certificate.	...		...	351	121	
81		Kendwadih .	Kendwadih, Kusunda, E. I. R.	550		285

82	Eastern Coal Co., Ltd. (See column No. 7).	Bhowra (9 mines).	Bhowra, Jharia, E. I. R.	R. I. Browne, <i>1st class competency, No. 17, in lieu of English certificate. Authorization, No. 190, to act as manager of more than one mine.</i>	...	...	901	140	
83		Kankani	Kankani, Sijua, E. I. R.	A. B. Crole, <i>1st class competency, No. 49, in lieu of English certificate.</i>	...	Mackinnon, Mackenzie & Co., 16, Strand, or Post Box No. 163, Calcutta.	589	431	
84		Pootki (3 mines).	Pootki, Jharia, E. I. R.	...	...	...	114	46	
85	Empire Coal Co., Ltd. (See column No. 7).	Sudamdih	Sudamdih, Jharia, E. I. R.	J. W. Cooper, <i>2nd class service, No. 6.</i>	...	Williamson, Magor & Co., 4, Mangoe Lane, or Post Box No. 177, Calcutta.	50	15	
86	Equitable Coal Co., Ltd. (See column No. 7).	Hariladih	Hariladih, Jharia, E. I. R.	F. L. Cork (Jr.), <i>1st class competency, No. 31. Authorization, No. 285, to act as manager of more than one mine.</i>	...	MacNeill & Co., 2, Clive Ghat Street, or Post Box No. 15, Calcutta.	97	73	
87	Ghansham Das Coal Co. Nowagarh P. O.	Pinalgoria	Pinalgoria	Ramtaran Roy, <i>Permit, No. 124.</i>	...	...	39	7	
88	Ghela Panchan & Co. Jharia P. O.	Joyrampur (Lower).	Joyrampur, Jharia, E. I. R.	Narendra Nath Bose, <i>Permit, No. 117.</i>	...	...	72	30	
89	Ghosal, Chatterji & Co. Sijua P. O.	Khas Paredih	Khas Paredih	Moheswar Ghosal, <i>Permit, No. 139.</i>	...	...	19	6	
90	Ghosh, Akshaya Kumar Katrasgarh P. O.	Dharmuband	Dharmuband	Bhola Nath Misra <i>Permit, No. 114.</i>	...	...	22	16	
91	Gobindpur Coal Co., Ltd. Katrasgarh P. O.	Gobindpur (3 mines).	Gobindpur, Katrasgarh, E. I. R.	W. H. Topham, <i>1st class competency, No. 11. Authorization, No. 263, to act as manager of more than one mine.</i>	...	F. W. Heilgers & Co., 136, Canning Street, or Post Box No. 186, Calcutta.	131	127	
92	Gobindpur (South) Collieries, Ltd. (See column No. 7).	Gobindpur (South).	Gobindpur, Katrasgarh, E. I. R.	Anurup Kristo Banerji, <i>1st class service, No. 41. Authorization, No. 262, to act as manager of more than one mine.</i>	...	M. L. Laik & Banerji, 7, Swallow Lane, or Post Box No. 141, Calcutta.	247	52	Previously owned by R. B. Singh.
93	Gopaldas Trikamji Jivandas	Jinagora	Jinagora Jharia	...	...	...	207	52	

APPENDIX V—contd.

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

Serial number.	Name 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 Mine.	Name of Manager, and No. and Class of his Certificate, Authorization or Permit.	Name of Assistant Manager and No. and Class of his Certificate.	Name and address of Managing Agent.	Date of establishment of Special Rules.	PERSONS EMPLOYED		REMARKS.
								Below ground.	Above ground.	
Bengal-Jharia Coalfield (No. 1 Inspection Circle)—contd.										
94	Gopalichak Coal Co., Ltd. (See column No. 7).	Gopalichak . (2 mines).	Gopalichak, Jharia, E. I. R.	A. Gregory, <i>1st class competency, No. 28, in lieu of English certificate.</i>	...	McLeod & Co., 31, Dalhousie Square, South, or Post Box No. 78, Calcutta.	...	490	360	
95		Gopalichak (West) (3 mines).	Kurkend, Kusunda, E. I. R.	H. Adamson, <i>1st class competency, No. 36.</i>	...		...	456	102	
96	Gorain, Gopi Nath Chirkunda P. O.	Borora .	Borora, Khanudih, B. N. R.	Lakshi Narayan Banerji	...	...	...	87	12	
97	Gorain, N. L., and others Jharia P. O.	Jairamdih .	...	Basraj Sikdar, <i>Permit, No. 66.</i>	...	...	...	88	28	
98	Gorain, Ram Rann 12, Kalakar Street, Calcutta.	Kendwadih .	Kendwadih, Khanudih, B.N.R.	Bhola Nath Ghosh, <i>Permit, No. 115.</i>	...	...	...	...	...
99	Gouri Shankar, Jagannath & Co.	Barahmasia .	Barahmasia, Khanudih, B.N.R.	M. C. Maharej .	...	...	...	82	33	
100	G. P. C. & Co., (Gova Petha) Jharia P. O.	Jinagora .	Jinagora, Jharia, E. I. R.	Gova Petha .	...	...	...	...	...
101	Hariladih Coal Co., Ltd. (See column No. 7).	Burragarh .	Burragarh, Jharia, E. I. R.	P. Brinlow, <i>1st class competency, No. 100, in lieu of English certificate.</i>	...	MacNeill & Co., 2, Clive Ghat Street, or Post Box No. 15, Calcutta.	...	160	70	
102		Kendwadih .	Kendwadih, Jharia, E. I. R.		...		...
103	Howji, Tribhuban Dass Kusunda P. O.	Gararia .	Gararia, Kusunda, E. I. R.	Dollabji Howji, <i>2nd class service, No. 97.</i>	Ramji Purushuttum.	...	...	138	103	
104	Huntodih Coal Co., Ltd. (See column No. 7).	Huntodih . (9 mines).	Huntodih, Katragarh, E. I. E.	A. G. Hailes, <i>1st class service, No. 61. Authorizations, Nos. 103 and 109, to act as manager of more than one mine.</i>	...	Shaw, Wallace & Co., 20, Strand Road, or Post Box No. 70, Calcutta.	...	282	289	

106	Indian Coal Association (Tribhuban Rowa Sankar and Bissonath Bhai Sankar) -Bhujudih P. O.	Pathardih . . .	Pathardih, Jharia, E. I. R.	Bissonath Bhai Sankar	...	...	...	...
		Jamadoba, Sec. 1 . . .	...	R. H. Dundas, <i>1st class competency, No. 88, in lieu of English certificate. Authorisation, No. 217, to act as manager of more than one mine.</i>	...	...	...	...
		Jamadoba, Sec. 2 . . .	...	R. F. Campbell, <i>1st class competency, No. 56, in lieu of English certificate.</i>	...	...	...	...
106	Indian Collieries Syndicate, Ld. (See column No. 7).	Jamadoba, Sec. 3 . . .	...	A. Allardycs, <i>1st class competency, No. 123, in lieu of English certificate.</i>	...	Kilburn & Co., 4, Fairlie Place, or Post Box No. 61, Calcutta.	...	1,010	792
		Jamadoba, Sec. 4 . . .	...	J. Hunter, <i>1st class competency No. 122, in lieu of English certificate. Authorisation, No. 834, to act as manager of more than one mine.</i>	...				
		Isabella Coal Co. (Mrs. A. Shrager) (See column No. 7).	Isabella . . .	Nudkurki . . .	H. G. Piggford, <i>1st class competency, No. 80. Authorisation, No. 248, to act as manager of more than one mine.</i>					...	Shrager, Ld., 7, Swallow Lane, Calcutta.	...	184	181
108	Jetha Gobardhan, Nowagarh P. O.	Muraidih . . .	Muraidih, Khanudih, B.N. R.	Valji Dhamji	...	...	...	...	...
109	Jharia Coal Association (S. K. Mukherji) Bansjora P. O.	Harinachak . . .	Pandedih, Sijua, E. I. R.	Jamini Nath Bhattacharji, <i>Permit, No. 98.</i>	...	...	...	35	6
110	Jharia Coal Syndicate . . . (See column No. 7).	Emampahari . . .	Kujama, Jharia, E. I. R.	Sashi Bhusan Mukherji, <i>Permit, No. 110.</i>	...	Surendra Nath Sen, Kailas Bose's Lane, Ramkrishna pur, Howrah P. O.	...	28	14
111	Jharia Coal Syndicate, Ld. (See column No. 7).	Dheriajoba . . .	Dheriajoba, Kusunda, E. I. R.	F. Miller, <i>1st class competency, No. 29, in lieu of English certificate.</i>	...	Jardine, Skinner & Co., 4, Clive Row, or Post Box No. 51, Calcutta.	...	280	29
112	Jharia Celliery Co., Ld. (See column No. 7).	Bhaga . . .	Bhaga, Jharia, E. I. R.	W. A. Hockly, <i>1st class services, No. 39.</i>	T. Simpson	Hoare, Miller & Co., 38, Strand Road, or Post Box No. 63, Calcutta.	...	214	181

APPENDIX V—contd.

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

Serial Number.	Name 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 Mine.	Name of Manager, and No. and Class of his Certificate, Authorization or Permit.	Name of Assistant Manager and No. and Class of his Certificate.	Name and address of Managing Agent.	Date of establishment of Special Rules.	PERSONS EMPLOYED		REMARKS.
								Below ground.	Above ground.	
Bengal-Jharia Coalfield (No. 1 Inspection Circle)—contd.										
113	Jharia (East) Coal Co., Ltd. (See column No. 7).	Jharia (East) or Goluckdih.	Goluckdih, Jharia, E. I. B.	J. A. C. Bayne, 1st class competency, No. 121, in lieu of English certificate.	...	Shaw, Wallace & Co., 20, Strand Road, or Post Box No. 70, Calcutta.	...	300	38	Previously owned by the Great Eastern Coal Co.
114	Jharia Katras Coal Co. (Bihari Lal Trigunait) Katrasgarh P. O.	Braroobara	Braroobara, Katrasgarh, E. I. B.	Frankishore Trigunait, Permit, No. 140.	...	...	...	15	7	
115	Jharia (South) Coal Co. Bhnjndih P. O.	Kandra (Upper)	Upper Kandra	Kalipoda Mukherji, Permit, No. 219.	...	...	...	33	43	
116	Jinagarah Coal Co., Ltd. (See column No. 7).	Jinagora	Jinagora	E. D. Onraet, 1st class service, No. 20.	...	Hoare, Miller & Co., 38, Strand Road, or Post Box No. 63, Calcutta.	...	...	...
117	John and Arratoon Kusunda P. O.	Ramgarh	Tetturis, Ramgarh	Ashutosh Ghosh	...	...	...	...	...
118	Joyrampur Coal Co. Jharia P. O.	Joyrampur	Joyrampur, Jharia, E. I. B.	Ramji Halu, 2nd class service, No. 160.	...	...	...	50	30	
119	Joyrampur Coal Concern (J. K. Mukherji) 53, Chunapukur Lane, Calcutta.	Joyrampur	Joyrampur, Jharia, E. I. B.	Puranjan Mukherji	...	...	...	...	...
120	Jumoni Coal Co., Ltd. (See column No. 7).	Madhuband (6 mines)	Madhubandi, Katrasgarh, E. I. B.	F. S. Benson, 1st class competency No. 95, in lieu of English certificate. Authorization, No. 274, to act as manager of more than one mine.	...	Bird & Co., 101-1, Clive Street, or Post Box No. 46, Calcutta.	...	330	210	H. C. Veasey, Agent.
121	Kabiraj, E. C. Sijua P. O.	Pandedih	Pandedih, Katrasgarh, E. I. B.	.....	...	...	...	...	...
122	Kanga & Co. Kusunda P. O.	Alkusa	Alkusa, Kusunda, E. I. B.	Ram Chandra Marwari, 1st class service, No. 103. Authorization, No. 240, to act as manager of more than one mine.	...	...	...	167	105	
123		Kiska	Kiska, Kusunda, E. I. B.							
124	Kanji Karan Adra P. O.	Barahmasia	Barahmasia, Khanudih, E. N. B.	.....	...	...	...	...	...

125	Katras Bhuputdih Coal Co. . . (Tarini Prasad Roy and Hari Dhun Das). Katrasgarh P. O.	Bhuputdih (South)	Katras Khas, Katrasgarh, E. I. E.	Kishory Mohan Roy, <i>Permit, No. 200.</i>	...	...	...	22	12
126	Katras Oriental Coal Syndicate (B. & M. Trigunait) Katrasgarh P. O.	Pandehi	Pandehi, Katrasgarh, E. I. R.	Bepin Behari Roy, <i>Permit, No. 235.</i>	...	...	...	14	10
127	Kendwadih Coal Co. (Gajadhar Marwari, Nogensra Nath Mandal and Mukundaram Rai) Nowagarh P. O.	Kendwadih	Kendwadih, Jharia, E. I. R.	Mukunda Lal Mondal, <i>2nd class service, No. 77.</i>	...	...	...	32	40
128	Kesurgurah Coal Co., Ltd. (See column No. 7).	Kesurgurah	Kesurgurah, Khanudih, B. N. E.	Besanta Kumar Roy, <i>1st class service, No. 88. Authorization, No. 258, to act as manager of more than one mine.</i>	...	M. L. Laik & Banerji, 7, Swallow Lane, or Post Box No. 141, Cal- cutta.	...	107	41
129	Khaira Coal Syndicate, Ltd. (See column No. 7).	Kurkend	Kurkend, Kusunda, E. I. R.	F. Miller, <i>1st class competency, No. 29, in lieu of English certificate.</i>	...	Jardine, Skinner & Co., 4, Clive Street, or Post Box No. 51, Calcutta.	...	133	85
130	Khan Brothers (See column No. 7).	Kujama	Kujama, Jharia, E. I. R.	Abass Khan, <i>Permit, No. 164.</i>	...	Dr. G. N. Khan, 33, Canning Street, Calcutta.	...	27	26
131	Khandesh, Berar and Gujrat Coal Concern (Rastamji Ardeair Maca- dam). Jharia P. O.	Chanda (2 mines).	Chandrabad, Jharia, E. I. R.	Nowroji Nusserwanji Ghandi.	...	...	...	30	30
132	Kharkabad Coal Syndicate (F. D. Whyte) Kusunda P. O.	Kharkabad	Kharkabad, Kusunda, E. I. R.	F. D. Whyte. <i>Autho- rization, No. 55, to act as temporary ma- nager.</i>	...	...	...	14	21
133	Khas Jharia and Bulliari Coal Concern. (Khora Bamji) Jharia P. O.	Bulliari	Bulliari, Jharia E. I. R.	Mulji Akhoy, <i>1st class service, No. 119. Authorization, No. 242, to act as mana- ger of more than one mine.</i>	...	...	...	181	73
134		Khas Jharia	Khas Jharia, Jharia, E. I. R.	...	...	...	...	...	...
135		Futtehpur	Futtehpur, Jharia, E. I. R.	Mogha Teja	...	...	...	84	46
136	Khas Jharia Coal Co. Jharia P. O.	Phularibad	Khas Jharia, Jharia, E. I. R.	Juanendra Nath Mukher- ji, <i>1st class service, No. 91. Authorisa- tion, No. 355, to act as manager of more than one mine.</i>	...	...	...	166	114
137	Khas Jharia Colliery Co. (See column No. 7).	Khas Jharia	Khas Jharia, Jharia, E. I. R.	John Wilson, <i>1st class competency, No. 104, in lieu of English certificate.</i>	...	F. W. Heilgers & Co., 136, Canning Street, or Post Box No. 185, Calcutta.	...	400	165

APPENDIX V—contd.

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

Serial number	Name 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 Mine.	Name of Manager, and No. and Class of his Certificate, Authorization or Permit.	Name of Assistant Manager and No. and Class of his Certificate.	Name and address of Managing Agent.	Date of establishment of Special Rules.	PERSONS EMPLOYED		REMARKS.
								Below ground.	Above ground.	
Bengal-Jharia Coalfield (No. 1 Inspection Circle)—contd.										
138	Khengarji Triku & Co. Jharia P. O.	Joyrampur	Joyrampur, Jharia, E. I. E.	...	...	...	...	60	22	
139	Khimji Moorji & Co. Jharia P. O.	Joyrampur	Joyrampur, Jharia, E. I. E.	Gowamul Khimji, Permit, No. 112.	...	...	...	73	45	
140	K. M. Selected Coal Co. (Kalianji Shamji) (See column No. 7).	Kusunda	Kusunda, Kusunda, E. I. E.	Deoram Pureshotam Vankani, 2nd class service, No. 30.	...	Kanji Monji, 210, Harrison Road, Calcutta.	...	93	41	
141	Koondoo, Sunda Charan & Sambhu Babu's Lane, Calcutta.	Kesalpur	Kesalpur, Katrasgarh, E. I. E.	Charu Chandra Banerji, Permit, No. 196.	...	...	...	30	20	
142	Kor, Sri Hari Jaydebkenduli P. O., Birbhum.	Dobari	Dobari, Jharia, E. I. E.	Dhon Hari Kor	...	...	...	20	10	
143	Kujama (North) Coal Co. (Gauji Dosa) Jharia P. O.	Kujama	Kujama, Jharia, E. I. E.	...	...	...	...	66	43	Previously Sainthia Coal Company's Muhuri-band Colliery.
144	Kundu & Co. (Bejoy Narayan Kundu and Kekobad H. Rao). Kusunda P. O.	Dhansar	Dhansar	Dinsha Jamshedji Madan, Permit, No. 198.	...	...	...	31	27	
145	Kurkend (Central) Coal Co., Ltd. (See column No. 7).	Kurkend	Kurkend, Kusunda, E. I. E.	D. A. Whyte, 1st class service, No. 45.	...	Anderson, Wright & Co., 22, Strand Road, or Post Box No. 140, Calcutta.	...	642	78	
146	Kurkend Coal Co. (B. Roy and others). Kusunda P. O.	Kurkend	Kurkend, Kusunda, E. I. E.	Indra Narayan Chandra, 1st class service, No. 89. Authorization, No. 185, to act as manager of more than one mine.	...	...	...	100	55	
147	Kusunda and Nayadi Collieries, Ltd. (See column No. 7).	Kusunda	Kusunda, Kusunda, E. I. E.	C. L. Phillips, 1st class service, No. 100.	G. John, 1st class service, No. 44.	Martin & Co., 6 and 7, Clive Street, or Post Box No. 28, Calcutta.	...	2,196	1,011	
148	Kusunda (New) Coal Co., Ltd. (See column No. 7).	Kusunda	Kusunda, Kusunda, E. I. E.	K. C. De, Permit, No. 172.	...	Mitra and Chaudhuri, 2, Swallow Lane, Calcutta.	...	75	32	Previously owned by J. K. Roy.
149	Lakorka Coal Co., Ltd. (See column No. 7).	Lakorka	Lakorka, Katrasgarh, E. I. E.	Lalit Mohan Chowdhuri, 1st class service, No. 33.	...	M. L. Laik and Banerji, 7, Swallow Lane, or Post Box No. 141, Calcutta.	...	333	228	

150	Lall, Daroga Katragarh P. O.	Belanjabad	Belanjabad	Ram Ranjan Sikdar, Permit, No. 153.	...	...	19	2	
151		Chasnalla	Chasnalla, Jharia, E. I. R.	T. C. Murray, 1st class competency, No. 66 in lieu of English certifi- cate. Authorization, No. 197, to act as manager of more than one mine.	...	...	106	285	
152	Lodna Colliery Co. Ltd. (See column No. 7).	Lodna (5 mines).	Lodna, Jharia, E. I. R.	A. C. Bull, 1st class competency, No. 14. Authorization, No. 223, to act as mana- ger of more than one mine.	...	Turner, Morrison & Co., 6, Lyons Range, or Post Box No. 68, Cal- cutta.	1,204	959	
153		Madhuband	Madhuband		...				
154	Lutchipur Coal Co., Ltd. (See column No. 7).	Choitodih (10 mines).	Choitodih, Katragarh, 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, or Post Box No. 46, Calcutta.	160	325	H. C. Veasey, General Manager.
155	Mahato, Baidya Nath Katragarh P. O.	Bahiardih	Bahiardih, Katragarh, E. I. R.	Dawrika Prasad Lala, Permit, No. 87.	...	.....	5	4	
156	Manbhum (New) Coal Co., Ltd. (See column No. 7).	Ganzlatan (2 mines).	Ganzlatan, Sijua, E. I. R.	T. C. Piggford, 1st class competency, No. 67, in lieu of English certificate. Authori- zation, No. 327, to act as manager of more than one mine.	...	Octavius Steel & Co., 14, Old Court House Street, or Post Box No. 55, Calcutta.	155	122	
157	Mandra Coal Co. (B. Boy) Dumra P. O.	Mandra	Mandra, Katragarh, E. I. R.	Hriahikesh Chatterji, Permit, No. 84.	...	.....	20	61	
158	M. B. Co. Nowagarh P. O.	Mandra	Mandra, Katragarh, E. I. R.	D. A. Anderson, 1st class competency, No. 97, in lieu of English certificate. Authori- zation, No. 373, to act as manager of more than one mine.	...	.....	75	8	
159	Marine Coal Co., Ltd. (See column No. 7).	Kurkend (East)	Kurkend, Kusunda, E. I. R.	E. F. Augier, 1st class service, No. 26.	...	McLeod & Co., 31, Dalhousie Square, South, or Post Box No. 78, Calcutta.	123	163	Previously owned by the East Kurkend Coal Company.
160	Marwari, Bhagwandas Nowagarh, P. O.	Pinalgoria	Pinalgoria	Ebola Nath Haara, Permit, No. 170.	...	.....	16	21	
161	Marwari, Jaharmal and Ram Protah Katragarh P. O.	Pandedih	Pandedih, Sijua, E. I. R.	Man Gobind Dutt, Permit, No. 174.	...	.....	18	8	

APPENDIX V—*contd.*

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

Serial number	Name 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 Mine.	Name of Manager, and No. and Class of his Certificate, Authorization or Permit.	Name of Assistant Manager and No. and Class of his Certificate.	Name and address of Managing Agent.	Date of establishment of Special Rules.	PERSONS EMPLOYED		REMARKS.
								Below ground.	Above ground.	
Bengal-Jharia Coalfield (No. 1 Inspection Circle)—<i>contd.</i>										
162	Moheshpur Coal Co., Ltd. (See column No. 7).	Moheshpur	Moheshpur, Katrasgarh, E. I. R.	Ananta Ram Bhor, <i>2nd class competency, No. 26. Authorization, No. 213, to act as manager of more than one mine.</i>	...	M. L. Laik and Banerji, 7, Swallow Lane, or Post Box No. 141, Calcutta.	...	50	66	
163	Mondal, Ajodhraram Katrasgarh P. O.	Kantapahari	Kantapahari, Katrasgarh, E. I. R.	Ram Ratan Mondal, <i>Permit, No. 202.</i>	...	...	...	23	15	
164	Motiram Coal Co. Kusunda P. O.	Kurkend	Kurkend, Kusunda, E. I. R.	Abola Bandhu Roy Chowdhury, <i>Authori- zation, No. 61, to act as temporary manager.</i>	...	...	...	79	15	
165	Mowji, Ambari Nowagarh P. O.	Muraidih	Muraidih, Khaudih, B. N. P.	...	...	...	...	...	...
166	Mucheridih Coal Co., Ltd. (See column No. 7).	Mucheridih (7 mines).	Mucheridih	G. H. Crabb, <i>1st class competency, No. 26, in lieu of English certificate. Authori- zation, No. 307, to act as manager of more than one mine.</i>	...	Bagram & Co., 14-2, Clive Street, Calcutta.	...	200	164	
167	Mukherji & Co., K. L. Katrasgarh P. O.	Tettulia	Tettulia, Katrasgarh, E. I. R.	Poolin Behari Mitra, <i>1st class service, No. 56.</i>	...	...	...	...	...
168	Mukherji & Co., K. P. 43-3, Strand, Calcutta.	Kandra	Het Kandra	...	...	...	...	13	58	
169	Mukherji & Co., S. K. Sijua P. O.	Pandedih	Pandedih, Sijua, E. I. R.	Nanda Lal Mukherji	...	...	...	...	...
170	Muttigurra Coal Co., Ltd. (See column No. 7).	Muttigurra	Muttigurra	F. B. Foster, <i>1st class service, No. 47. Authori- zation, No. 246, to act as manager of more than one mine.</i>	...	Octavius Steel & Co., 14, Old Court House Street, or Post Box No. 55, Calcutta.	...	107	380	
171	M. V. A. Coal Concern (M. V. Apear & Co.) 6, Fancy Lane, Calcutta.	Joyrampur	Joyrampur, Jharia, E. I. R.	E. A. Whyte, <i>1st class service, No. 74.</i>	...	...	...	229	88	Previously owned by the R. M. B. Coal Concern.

172	Nandi, Maharaja Manindra Chandra, Cosimbazar P. O., Murshidabad.	Ekra Khas	Ekra, Kusunda, E. I. R.	Ram Ram Chandra, 1st class service, No. 109. Authorization, No. 239, to act as manager of more than one mine.	...	...	...	382	145	Monmotho Nath Roy, General Manager.
173	Nanji, Khanji & Sanji Jharia P. O.	Kujama	Kujama, Jharia, E. I. R.	Valji Kheta, 2nd class service, No. 75.	...	...	...	59	14	
174	National Coal Co. (Radha Kinkur Chatteraj) Katrasgarh P. O.	Chandore	Chandore, Sijua, E. I. R.	Upendra Nath Nandi, Permit, No. 131.	...	...	...	24	17	
175	National Coal Co., Ltd. (See column No. 7).	Angarpatra	Angarpatra, Katrasgarh, E. I. R.	J. T. Robinson, 1st class competency, No. 137, in lieu of English certificate. Authorization, No. 313, to act as manager of more than one mine.	...	Planters' Stores and Agency Co., Ltd., 2, Mission Row, Calcutta.	...	60	79	Previously owned by J. N. Srimani.
176		Kantapahari						87	16	
177	National North, Barahmasia Coal Co. (Biru Mistry), Katrasgarh P. O.	Muraidih	Muraidih, Khanudih, E. N. R.	Sher Mahomed Khan	...	...	...	...	...
178	North-West Coal Co., Ltd. (See column No. 7).	Ena (3 mines).	Ena, Jharia, E. I. R.	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, or Post Box No. 150, Calcutta.	...	160	105	
179	North-West Jharia Coal Syndicate (C. A. Forbes, P. N. Banerji and Ram Chandra Marwari), Nowagarh P. O.	Anakuti	Majura and Ganespur	Kshetra Nath Banerji, Permit, No. 188.	...	...	...	84	19	
180	Nowagarh Coal Co., Ltd. (See column No. 7).	Katras (13 mines).	Katras, Katrasgarh, E. I. R.	T. K. Fleischer, 1st class service, No. 10. Authorization, No. 55, to act as manager of more than one mine.	...	Bird & Co., 101-1, Clive Street, or Post Box No. 46, Calcutta.	...	547	489	H. C. Vessey, General Manager.
181	Nudkhurki Coal Co. (See column No. 7).	Nudkhurki (14 mines).	Nudkhurki	Gopal Chandra Bhattacharji, 1st class service, No. 77. Authorization, No. 165, to act as manager of more than one mine.	...	Shragers, Ltd., 7, Swallow Lane, Calcutta.	...	123	198	
182	Pain, B. L. Katrasgarh P. O.	Chandore	Chandore, Sijua, E. I. R.	Narendra Nath Roy, 2nd class service, No. 169.	...	...	...	22	13	
183	Pandakamali Coal Co., Ltd. (See column No. 7).	Pandakamali (3 mines).	Pandakamali	B. S. Field, 1st class competency No. 92, in lieu of English certificate. Authorization, No. 334, to act as manager of more than one mine.	...	Bird & Co., 101-1, Clive Street, or Post Box No. 46, Calcutta.	...	122	164	

APPENDIX V—contd.

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

Serial number.	Name 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 Mine.	Name of Manager, and No. and Class of his Certificate, Authorization or Permit.	Name of Assistant Manager and No. and Class of his Certificate.	Name and address of Managing Agent.	Date of establishment of Special Rules.	PERSONS EMPLOYED		REMARKS.
								Below ground.	Above ground.	
Bengal-Jharia Coalfield (No. 1 Inspection Circle)—contd.										
184	Pandedih Coal Syndicate (Bejrangbali Singh, Mit Narayan Singh and Munshi Lal Mistri) Katrasgarh P. O.	Pandedih . . .	Pandedih, Sijua, E. I. R.	Raghu Nath Lal <i>Permit, No. 168.</i>	...	...	...	45	6	
185	Pandeybera Colliery Co. (Daya Sankar Shamji) Jharia P. O.	Pandeybera . . .	Kujama, Jharia, E. I. R.	Daya Sankar Shamji, <i>2nd class service, No. 19.</i>	...	...	...	70	47	
186	Parasa Collieries, Ltd. (See column No. 7).	Nichitpur . . .	Nichitpur	F. L. Cork, <i>1st class service, No. 30. Authorization, No. 188, to act as manager of more than one mine.</i>	...	Shaw, Wallace & Co., 20, Strand Road, or Post Box No. 70, Calcutta.	...	75	135	
187	Parelgaria Coal Co. (Kamolram Marwari) Kusunda P. O.	Parelgaria . . .	Damra	Kishory Mohan Chatterji.	...	...	...	26	25	
188	Patel & Co. Kusunda P. O.	Kusunda	Kusunda, Kusunda, E. I. R.	Keshob Chandra Mitter, <i>2nd class service, No. 60.</i>	...	...	...	97	42	
189	Phoenix Coal Co., Ltd. (See column No. 7).	Tasra	Tasra	J. G. Herriotts, <i>1st class competency, No. 20, in lieu of English certificate. Authorization, No. 198, to act as manager of more than one mine.</i>	...	Andrew Yule & Co., 8, Clive Row, or Post Box No. 150, Calcutta.	...	...	...
190	Phularitand Coal Co., Ltd. (See column No. 7).	Phularitand (4 mines).	Phularitand . . . . .	...	...	N. C. Sircar & Sons, 5, Clive Ghat Street, or Post Box No. 285, Calcutta.	...	158	281	
191	Pipratand Coal Co., Ltd. (See column No. 7).	Pipratand	Pipratand	L. R. Somerville, <i>1st class competency, No. 76, in lieu of English certificate. Authorization, No. 251, to act as manager of more than one mine.</i>	...	Williamson, Magor & Co., 4, Mangoe Lane, or Post Box No. 177, Calcutta.	...	200	70	

192	Polite Barahmasia Coal Co. (Mahomed Abdul Gany and Sheik Bamatulla.) Katragarh P. O.	Barahmasia	Barahmasia	Babu Basiruddin . . . . .	...	Biru Mistri, Giridih.	...	...	...
198		Muraidih	Muraidih . . . . .	...	...	...	...	...	...
194	Fremji and Devahi Hamir Jharis P. O.	Durgapur	Durgapur, Jharis, E. I. R.	Devshi Hamir, 2nd class service, No. 1. Authorization, No. 178, to act as manager of more than one mine.	...	...	...	74	52	
195		Futtehpur	Futtehpur, Jharis, E. I. R.		...	...	...	...	...	...
196	Baha and Son, Sasi Bhusan (See column No. 7).	Godhur	Godhur, Kusunda, E. I. R.	Purna Chunder Biswas, 1st class service, No. 105. Authorization, No. 87, to act as mana- ger of more than one mine.	...	...	...	331	104	Previously owned by Myne & Co.
197	Ramjidas Bechardas Kusunda P. O.	Gararia	Gararia, Kusunda, E. I. R.	Ashutosh Dutt . . . . .	...	...	...	70	54	
198	Ranidih Coal Co. (Sasi Bhusan Chatterji) (See column No. 7).	Ranidih	Ranidih, Katragarh, E. I. R.	..	...	S. Chatterji & Sons, 50, Nandaram Sen's Street, Calcutta.	...	34	50	
199	Raniganj Coal Association, Ld. (See column No. 7).	Alkusa Workings at Gand- hudi and part of Alkusa.		S. Kirk, 1st class com- petency, No. 79, in lieu of English certi- ficate.	...	...	...	925	364	
200		Kustore, North Dis- trict (Workings North of Kustore and part of Alkusa).	Kiuka, Kusunda, E. I. R.	D. Conn, 1st class com- petency, No. 121, in lieu of English certificate. Autho- rization, No. 232, to act as manager of more than one mine.	...	Kilburn & Co., 4, Fairlie Place, or Post Box No. 61, Calcutta.	...	457	101	J. Fcan, Agent.
201		Kustore, South Dis- trict (Workings South of Kustore).		J. Kirk, 1st class competency, No. 119, in lieu of English certificate. Authorization, No. 253, to act as mana- ger of more than one mine.	105	125
202	Reliance Coal Co., Ld. (See column No. 7).	Mudidih	Mudidih, Sijua, 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, or Post Box No. 46, Calcutta.	...	780	424	

APPENDIX V—contd.

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

Serial number.	Name 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 Mine.	Name of Manager, and No. and Class of his Certificate, Authorisation or Permit.	Name of Assistant Manager and No. and Class of his Certificate.	Name and address of Managing Agent.	Date of establishment of Special Rules.	PERSONS EMPLOYED.		REMARKS.
								Below ground.	Above ground.	
Bengal-Jharia Coalfield (No. 1 Inspection Circle)—contd.										
203	Roy, Bireswar . Katrasgarh P. O.	Gausdih . . .	Gausdih	Indra Narayan Chandra, <i>1st class service, No. 89. Authorisation, No. 185, to act as manager of more than one mine.</i>	...	...	...	50	25	
204		Bamkanali . . .	Bamkanali, Katrasgarh, E. I. R.	Goste Behari Mozumdar, <i>Permit, No. 132.</i>	...	...	...	25	19	
205		Surataur . . .	Jharia Khas, Jharia, E. I. R.	Pran Krishna Mozumdar, <i>2nd class service, No. 80.</i>	...	...	...	67	33	
206	Roy, Moheswar & Srikontho Kusunda P. O.	Gararia . . .	Gararia, Kusunda, E. I. R.	Brojo Kishore Sen, <i>Permit, No. 144.</i>	...	...	...	40	40	
207	Royal Coal Co., Ltd. (See column No. 7).	Asakuti . . .	Asakuti . . . . .	...	...	...	...	...	...
208	Hanker, T. R. Kusunda P. O.	Gararia . . .	Gararia, Kusunda, E. I. R.	Chuni Lal . . .	...	...	...	...	...
209	Seal, K. R. Jharia P. O.	Kally Than Surataur.	Jharia Khas, Jharia, E. I. R.	Hari Prafulla Mukherji, <i>2nd class competency, No. 17.</i>	...	...	...	105	35	
210	Sendra Coal Co., Ltd. (See column No. 7).	Sendra (2 mines).	Senora, Sijua, E. I. R.	N. Miller, <i>1st class service, No. 50. Authorisation, No. 141, to act as manager of more than one mine.</i>	...	F. W. Heilgers & Co., 136, Canning Street, or Post Box No. 185, Calcutta.	...	317	112	
211	Sheikh, Brothers & Co. Nowagarh P. O.	Dumra Khas . . .	Dumra	Babua Pandya, <i>Permit No. 155.</i>	...	...	...	28	29	
212	Sijua Coal Co., Ltd. (See column No. 7).	Sijua . . . (17 mines).	Sijua, Sijua, E. I. R.	Joseph Miller, <i>1st class service, No. 80. Authorisation, No. 157, to act as manager of more than one mine.</i>	...	Balmer, Lawrie & Co., 103, Clive Street, or Post Box No. 4, Calcutta.	...	813	677	
213	Singh & Co., Atma Nowagarh P. O.	Khalsa . . .	Bodora	Ram Moy Mukherji, <i>Permit, No. 113.</i>	...	...	...	5	23	

214	Singh, Bir Katraagarh P. O.	Kesalpur (Imperial) (3 mines).	Kesalpur, Katraagarh, E. I. B.	Mahadeo Lal	...	...	17	4
215	Singh, Durga Persad Jharia P. O.	Tisra	Tisra, Jharia, E. I. B.	Rakhal Das Mukherji, <i>Permit, No. 167. Authorization, No. 268, to act as manager of more than one mine</i>	...	...	...	...
216	Singh, Gour Mohan Baroragarh, Nowagarh P. O.	Mandra Khas	Mandra	Romesh Chandra Das Gupta. <i>Permit, No. 111.</i>	...	...	4	7
217	Singh, Jit Narayan and Mit Narayan. Katraagarh P. O.	Mandra	Mandra	Sahid Khan	...	...	14	15
218	Singh, Jorabar Sijua P. O.	Pandedih	Pandedih, Sijua, E. I. B.	.....	...	...	...	...
219	Sinidih Coal Co., Ltd. (See column No. 7).	Sinidih (3 mines).	Sinidih	John White, <i>1st class competency, No. 31, in lieu of English certi- ficate. Authorization, No. 180, to act as manager of more than one mine.</i>	Williamson, Magor & Co., 4, Mangoe Lane, or Post Box No. 177, Cal- cutta.	...	205	62
220	Sinidih Coal Concern Jethmull Bhojraj, No. 4 Dahidatta, Barabazar, Calcutta.	Sinidih	Sinidih	Noni Dhon Bhattacharji	...	...	100	70
221	Sircar, B. B. Kusunda P. O.	Kurkend	Kurkend, Kusunda, E. I. B.	Mathura Nath Ghosh, <i>2nd class services, No. 8.</i>	...	...	95	20
222	Smith, C. J. (See column No. 7).	Bagdigi (3 mines).	Bagdigi, Jharia, E. I. B.	J. W. Murphy, <i>1st class competency, No. 7. Authorization, No. 150, to act as mana- ger of more than one mine.</i>	Hoare, Miller & Co., 38, Strand Road, or Post Box No. 63, Calcutta.	...	234	254
223	Sowardih Coal Co. (N. L. Gorain and others) Jharia P. O.	Sowardih	Sowardih, Jharia, E. I. B.	Hari Prosanna Ghosr, <i>Authorization, No. 60, to act as tempo- rary manager.</i>	...	...	183	143
224	Srimani, Jogendra Nath 90-2, Baranashi Ghose's Street, Calcutta.	Matialla	Matialla	Soci Bhusan Banerji	...	...	...	...

APPENDIX V—contd.

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

Serial number.	Name 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 Mine.	Name of Manager, and No. and Class of his Certificate, Authorization or Permit.	Name of Assistant Manager and No. and Class of his Certificate.	Name and address of Managing Agent.	Date of establishment of Special Rules.	PERSONS EMPLOYED		REMARKS.	
								Below ground.	Above ground.		
Bengal-Jharia Coalfield (No. 1 Inspection Circle)—contd.											
225	Standard Coal Co., Ltd. (See column No. 7).	Benahir	Benahir, Jharia, E. I. R.	...	S. B. Banerji	F. W. Heilgers & Co., 136, Canning Street, or Post Box No. 185, Calcutta.	...	450	250		
226		Hariladiah	Hariladiah, Jharia, E. I. R.	R. C. Barrowman, 1st class competency, No. 24, in lieu of English certificate. Authorization, No. 330 to manage more than one mine.	200		100
227		Jharia Khas.	Jharia Khas, Jharia, E. I. R.		...				425		225
228	Sudamdih Coal Co., Ltd. Jharia P. O.	Kurkend	Kurkend, Kusunda, E. I. R.	John Knox, 1st class competency, No. 84, in lieu of English certificate.	...	N. C. Sircar & Sons, 5, Clive Ghat Street, or Post Box No. 285, Calcutta.	...	312	67	Previously owned by the Jewel Coal Co.	
229		Sudamdih	Sowardih, Jharia, E. I. R.	W. T. S. Gibson, 1st class competency No. 103, in lieu of English certificate.	...			116	78		
230	Sudriadih Coal Co., Ltd. Nowagarh P. O.	Sudriadih	Sudriadih, Katrasgarh, E. I. R.	W. Combey, 1st class competency, No. 68, in lieu of English certificate. Authorization, No. 256, to act as manager of more than one mine.	...	Shaw, Wallace & Co., 20, Strand Road, or Post Box No. 70, Calcutta.	...	369	192		
231	Sutikdih Coal Co., Ltd. (See column No. 7).	Sutikdih	Sutikdih	H. G. Fleury, 1st class service, No. 85. Authorization, No. 298, to act as manager of more than one mine.	...	Jardine, Skinner & Co., 4, Clive Row, or Post Box No. 51, Calcutta.	...	50	25	Previously owned by the East Indian Coal Co., Ltd., J. J. Turnbull, Agent.	
232	Tandabari Coal Syndicate Sijua P. O.	Tandabari (4 mines).	Tandabari	Ras Behari Basu, Permit, No. 96.	...	...	...	43	15	
233	Tentulia Colliery Co. Katrasgarh P. O.	Tentulia (6 mines).	Tentulia	Goste Behary Roy, 2nd class service, No. 124. Authorization, No. 287, to act as manager of more than one mine.	...	D. N. Ghosh & Bros., North Bantra, Howrah.	...	125	40	E. M. Patterson, Man- aging Director.	

234	Tetturia (New) Coal Co., Ltd. Katragarh P. O.	Tetturia (6 mines).	Tetturia, Katragarh, E. I. R.	T. Walsh, 1st class competency, No. 60, in lieu of English certificates. Author- ization, No. 221, to act as manager of more than one mine.	...	Shaw, Wallace & Co., 20, Strand Road, or Post Box No. 70, Calcutta.	...	556	225
235	Tetturia (West) Collieries, Ltd. (C. M. Carapieb). Katragarh P. O.	Tetturia	Tetturia, Katragarh, E. I. R.	G. D. Scott, 1st class competency, No. 2. Authorization, No. 297, to act as manager of more than one mine.	...	...	...	109	75
236	Titilmuri Coal Co., Ltd. Sijua P. O.	Titilmuri (3 mines).	Titilmuri, Sijua, E. I. R.	K. G. S. th Sam, 1st class competency, No. 15. Authorization, No. 42, to act as manager of more than one mine.	...	...	...	467	49
237	Trigunait, Bhubaneswar Sijua P. O.	Pandedih	Pandedih, Sijua, E. I. R.	Sasi Bhusan Ghosh, 2nd class service, No. 52. Authoriza- tion, No. 86, to act as manager of more than one mine.	...	...	...	...	...
238	Trigunait, Erindaban, Katragarh P. O.	Chandore	Chandore, Sijua, E. I. R.	Rakhal Chandra Roy	...	...	...	8	...
239	Trigunait, Broje Bhusan Katragarh P. O.	Chandore	Chandore, Sijua, E. I. R.	Hem Chandra Sircar, Permit, No. 181.	}	...	...	83	11
240		Chandore (New)							
241		Ramkanali	Ramkanali, Katragarh, E. I. R.	Biseswar Roy, Permit, No. 107.	...	...	...	30	13
242	Trigunait Brothers Coal Co. Katragarh P. O.	Angarpatra	Angarpatra, Sijua, E. I. R.	Mukunda Lal, Misra, 2nd class service, No. 163.	Sitikontha Kabiraj.	...	...	204	106
243	Trigunait, Mukteswar and Bhubaneswar. Katragarh P. O.	Chandore	Chandore, Sijua, E. I. R.	Sasi Bhusan Ghosh, 2nd class service, No. 52. Authoriza- tion, No. 86, to act as manager of more than one mine.	}	...	...	156	28
244		Kantapanari	Kantapanari, Sijua, E. I. R.						
245		Pandedih	Pandedih, Sijua, E. I. R.						
246	Trigunait, Sudarman Katragarh P. O.	Chandore	Chandore, Sijua, E. I. R.	Sorbeswar Chatterji, Permit, No. 100. Authorization, No. 47, to act as manager of more than one mine.	...	...	...	45	5
247		Chandore (North)	Chandore, Sijua, E. I. R.	Panchanan T. h. Permit, No. 232.	...	...	...	...	...

APPENDIX V—*contd.*

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

Serial number.	Name 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 Mine.	Name of Manager, and No. and Class of his Certificate, Authorization or Permit.	Name of Assistant Manager and No. and Class of his Certificate.	Name and address of Managing Agent.	Date of establishment of Special Rules.	PERSONS EMPLOYED		REMARKS.
								Below ground.	Above ground.	
Bengal-Jharia Coalfield (No. 1 Inspection Circle)—<i>concl'd.</i>										
248	Tundu Coal Co. (Bahim Khan, Feroz Khan). Katrasgarh P. O.	Tundu	Tundu Katrasgarh, E. I. E.	Rauf Khan	...	...	...	61	24	
249	Union Coal Co., Ltd. (See column No. 7).	Angarpatra (6 mines).	Angarpatra, Sijua, E. I. E.	R. Purdy, 1st class service, No. 93, in lieu of English certificate. Authorization, No. 169, to act as manager of more than one mine.	...	Williamson, Magor & Co., 4, Mangoe Lane, or Post Box No. 177, Calcutta.	...	740	510	
250	Verakotah Syndicate, Ltd. Jharia P. O.	Verakotah	Verakotah, Jharia, E. I. E.	L. D'Costa. Permit, No. 171.	...	H. J. L. Belletti, Jharia	...	19	25	
251	Vithalram Coal Co. (Dr. G. N. Khan). (See column No. 7).	Bodora	Bodora	Narotam Hari Shunker, Ojha. Permit, No. 156.	...	Dr. G. N. Khan, 33, Canning Street, Calcutta.	...	12	10	
252	Vurma Coal Co. Bankipur P. O., Patna.	Pinalgoria	Pinalgoria	Sankar Singh, Permit, No. 175.	...	Jamuna Prasad and Jataran Lal, Katrasgarh P. O.	...	27	4	
253	Walji, Joyram and Mulji Kusunda P. O.	Kusunda (North East).	Kusunda, Kusunda, E. I. E.	Bijoy Kisore Sircar. Permit, No. 213.	...	.....	...	...	...
254	Western India Coal Trading Co. Nowagarh P. O.	Western India	Nudkhurki	Rajendra Lal Sarkar, 2nd class service, No. 166. Authorization, No. 235, to act as manager of more than one mine.	...	K. Desai & Co., Nadiad P. O., B. B. & C. I. E.	...	63	39	
Bengal-Raniganj Coalfield (No. 2 Inspection Circle).										
1	Abdul Karim & Bros. Barakar P. O.	Kapasara (25 Bighas plot). No. 1.	Kapasara, Mugma, E. I. E.	Bhaichand Naku. Permit, No. 183.	...	...	...	28	4	
2		Kapasara (15 Bighas plot). No. 2.	Kapasara, Mugma, E. I. E.	Ahmed Yusuf. Permit, No. 142.	...	...	...	38	5	
3	Adam Joosah & Co. Barakar P. O.	Kapasara	Kapasara, Mugma, E. I. E.	Ashutosh Misra. Permit, No. 102.	...	...	...	37	5	
4	Ahmed Yusuf Barakar P. O.	Egarcoor	Egarcoor, Mugma or Barakar, E. I. E.	Trimbaklal Umiasbanker Dholekia.	...	...	...	17	5	

5	Aldih Coal Co., Ltd. (See column No. 7).	Aldih (8 mines.)	Aldih, Sitarampur, E. I. R.	W. M. Martin, 1st class competency, No. 64, in lieu of English certificate. Authorization, No. 126, to act as manager of more than one mine.	MacNeill & Co., 1/2, Clive Ghat Street, Calcutta, or Post Box No. 15.	...	...	...
6	Annapurna Coal Co. (Ram Handhu Maji and Lachmi Narayan Marwari). Kulti P. O.	Birsingpur	Birsingpur	Gouri Sankar Roy Chowdhury, 2nd class service No. 73.	.....	...	22	21	
7	Badjna Coal Co., Ltd. (See column No. 7).	Badjna	Badjna	A. J. Spencer, 2nd class competency, No. 10, in lieu of English certificate.	Planters' Stores and Agency Co., Ltd., 3, Mission Row, Calcutta.	...	13	21	Previously owned by Martin.
8	Banerji, Bidhu Sekhar Sabanpur P. O.	Sabanpur (3 mines.)	Sabanpur	Gobordhan Banerji. Permit, No. 97. Authorization, No. 160, to act as manager of more than one mine.	.....	...	18	7	
9	Baraboni Coal Concern, Ltd. (See column No. 7).	Chinchuria	Chinchuria, Baraboni or Asansol, E. I. R.	T. Samson, 1st class competency, No. 94, in lieu of English certificate. Authorization No. 301, to act as manager of more than one mine.	N. C. Sircar & Sons, 5, Clive Ghat Street, or Post Box No. 285, Calcutta.	...	361	148	W. Burt, Superintending Engineer.
10		Nuni	Nuni, Sitarampur or Asansol, E. I. R.	.....		...	132	57	
11		Sudih	Sudih	Bhairab Chavan Nandi, 2nd class service, No. 68. Authorization, No. 309, to act as manager of more than one mine.		...	158	44	
12	Barakar Brick and Tile Syndicate, Barakar P. O.	Garphalbari	Garphalbari, Mugma, E. I. E.	G. Shearer. 2nd class service, No. 10.	.....	...	47	15	*Also Managing Director.
13		Gopinathpur	Gopinathpur, Mugma, E. I. R.	.....	...	...	...	5	
14	Barakar Coal Co., Ltd. (See column No. 7).	Alipur	Alipur	F. A. Roberts, 1st class competency, No. 13, in lieu of English certificate.	Bird & Co., 101-1, Clive Street, or Post Box No. 46, Calcutta.	...	...	...	S. Hoelop, Superintendent.
15		Kumardubi (3 mines).	.....	W. F. S-ton-Burn, 1st class service, No. 135. Authorization, No. 163, to act as manager of more than one mine.		...	37	55	
16	Barakar (West) Coal Co. Barakar P. O.	Mugma	Mugma, Mugma, E. I. R.	Ram Gopal Dey, Permit, No. 137.	.....	...	39	38	
17	Beerbhun (New) Coal Co., Ltd. (See column No. 7).	Belrai	Belrai, Sitarampur, E. I. R.	Amos Lowe, 1st class service, No. 51.	Balmer, Lawrie & Co., 109, Clive Street, or Post Box No. 4, Calcutta.	...	182	135	S. Hoelop, Superintendent.
18		Borrae	Borrae, Kulti, E. I. R.	J. G. Maughan, 1st class service, No. 13.		...	730	583	

APPENDIX V—contd.

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

Serial number.	Name 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 Mine.	Name of Manager, and No. and Class of his Certificate, Authorization or Permit.	Name of Assistant Manager and No. and Class of his Certificate.	Name and address of Managing Agent.	Date of establishment of Special Rules.	PERSONS EMPLOYED		REMARKS.					
								Below ground.	Above ground.						
Bengal-Raniganj Coalfield (No. 2 Inspection Circle)—contd.															
19	Bengal Coal Co., Ltd. (See column No. 7).	Chanch	Chanch, Barakar, E. I. R.	W. Forster, <i>1st class service, No. 12.</i>	J. Hyde	Andrew Yule & Co., 8, Clive Row, or Post Box No. 150, Calcutta.	...	1,167	604	G. F. Scott, Chief Mining Engineer.					
20		Dumarkunda	Dumarkunda, Barakar, E. I. R.												
21		Hatnol	Sanctoris, Barakar, E. I. R.												
22		Laikdih	Laikdih, Barakar, E. I. R.	R. S. Davies, <i>1st class competency, No. 81, in lieu of English certificate. Authorization.</i>	...						567	515			
23		Sanctoria (2 mines)	Sanctoria, Barakar, E. I. R.												
24		Sitalpur	Sitalpur, Barakar, E. I. R.												
25		Sodepur	Sodepur, Sitarampur or Barakar, E. I. R.	A. J. Cooper, <i>1st class competency, No. 8.</i>	...						565	115			
26		Bengal Imperial Coal Co. Barakar P. O.	Mugma	Mugma, Mugma, E. I. R.	A. Sheridan, <i>1st class competency, No. 55, in lieu of English certificate. Authorization, No. 291, to act as manager of more than one mine.</i>						L. A. Biddle	...	1,210	538	
27			Kendwa	Kendwa, Barakar or Kulti, E. I. R.	Jadunath Chackerbutty						76		19
28	Ramnagar		Ramnagar, Barakar or Kulti, E. I. R.	A. H. M. Paton, <i>1st class competency, No. 89, in lieu of English certificate. Authorization, No. 139, to act as manager of more than one mine.</i>		...	...	...	253	30		
29	Bengal Iron and Steel Co., Ltd. (See column No. 7).	Gangutia	Gangutia, Barakar, E. I. R.	C. F. H. Armour, <i>2nd class service, No. 9. Authorization, No. 279, to act as manager of more than one mine.</i>	...	Martin & Co., 6 and 7, Clive Street, or Post Box No. 23, Calcutta.	...	212	55						

30	Bengal Oriental Coal Co. Barakar P. O.	Kapasara	Kapasara, Mugma, E. I. R.	Mugat Ram Nagar, Permit, No. 130.	.....	41	19	
31	Bhattacharji & Co., U. C. Barakar P. O.	Egarcoor	Egarcoor, Mugma, E. I. R.	Rama Nath Dass Permit, No. 206.	.....	56	15	
32	Birsingpur Coal Co. (Abhaya Charan Banerji.) Nirachhati P. O.	Birsingpur	Birsingpur	Ram Nayan Kanji, Permit, No. 122.	.....	25	28	
33	Bonjamari Coal Co. Charanpur P. O.	Bonjamari	Bonjamari, Baraboni or Asansol, E. I. R.	Ram Chandra Mukherji, Permit, No. 89.	.....	36	11	
34	Borari (Eastern) Coal Association, Ltd.	Egarcoor	Egarcoor, Mugma, E. I. R.	Chandra Sekhor Ganguli, Permit, No. 190.	} R. C. Banerji & Co., 18, Swallow Lane, Calcutta.	8	39	
35	(See column No. 7).	Hathari	Hathari	Satyendra Nath Ghosh, Permit, No. 169.		26	34	
36	Borra Coal Co., Ltd. (See column No. 7).	Salanpur	Salanpur, Salanpur or Sitarampur, E. I. R.	Jas. Mason, 1st class competency, No. 105, in lieu of English certificate.	F. W. Heilgers & Co., 136, Canning Street, or Post Box No. 185, Calcutta.	470	67	J. Mackintosh, Superintendent.
37	Brindabonpur Coal Co. (Horo-gobindo Goswamy, and Kanairam Marwari) Mugma P. O.	Brindabonpur	Brindabonpur	.....	.....	26	38	
38	Furn & Co., Ltd. Raniganj P. O.	Egarcoor	Egarcoor, Mugma, E. I. R.	J. T. Mackenzie, 1st class competency No. 117, in lieu of English certificate.	Burn & Co., 7, Hastings Street, or Post Box No. 191, Calcutta.	10	44	
39	Burra Dhemo Coal Co., Ltd. (See column No. 7).	Burra Dhemo	Burra Dhemo	A. G. Bennertz, 1st class service No. 78. Authorisation, No. 209, to act as manager of more than one mine.	Ernsthausen, Ltd., 9, Clive Row, Calcutta.	98	111	Previously owned by J. N. Coal Concern. (Baghunandan Prosad).
40	Central India Coal Co. Barakar P. O.	Egarcoor Kalitola	Kalitola, Barakar, E. I. R.	Behari Lal Kabi, Permit, No. 166.	.....	13	4	
41	Chakravarti, Amrita Krishna Nirachhati P. O.	Bhangaband Banga Lakshmi	Nirachhati	Amrita Krishna Chakravarti.	.....	...	...
42	Charnock Collieries, Ltd. (See column No. 7).	Charnock (5 mines)	Sarakdih	A. E. A. Moore, Permit No. 220. Authorisation, No. 531, to act as manager of more than one mine.	Societa Coloniale di Trieste, 124, Canning Street, or Post Box No. 132, Calcutta.	43	68	
43	Chatterji Colliery Co. (A. C. Chatterji). 12/4 & 12/5, Pataldanga Street, Calcutta.	Mouthdih	Mouthdih, Sitarampur, E. I. R.	Pratul Chander Chatterji, Permit No. 248.	.....	13	35	
44	Chatterji, Kanailal, and Mitter, Gopal Chander. Chirkunda P. O.	Egarcoor	Egarcoor, Mugma, E. I. R.	Gopal Chander Mitter, Permit No. 240.	.....	7	...	

APPENDIX V—contd.

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

Serial number.	Name 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 Mine.	Name of Manager, and No. and Class of his Certificate, Authorisation or Permit.	Name of Assistant Manager and No. and Class of his Certificate.	Name and address of Managing Agent.	Date of establishment of Special Rules.	PERSONS EMPLOYED		REMARKS.
								Below ground.	Above ground.	
Bengal-Raniganj Coalfield (No. 2 Inspection Circle)—contd.										
45	Chatterji, Ram Bandhu Dishargarh P. O.	Chota Dhemo	Chota Dhemo, Sitarampur, E. I. E.	Upendra Nath Laik, Permit, No. 303.	...	...	...	25	20	
46	Chatterji, Shashi Bhusan 46A, Strand Road, Calcutta.	Klundia	Shampur, Mugma, E. I. E.	Monmotha Nath Chatterji.	...	...	...	35	34	
47	Chhaganlal Nagar Barakar P. O.	Egarcoor	Egarcoor, Mugma, E. I. E.	Ramji Vishram Chanda, Permit, No. 99.	...	...	...	16	9	
48	Chirkunda (New) Coal Co. (Jugal Kissor Marwari & others.)	Egarcoor	Egarcoor, Mugma, E. I. E.	Harish Chandra Roy, Permit, No. 105.	...	...	...	40	30	
49	Chota Dhemo Coal Co. (See column No. 7).	Chota Dhemo	Chota Dhemo, Sitarampur, E. I. E.	Pravakar Chatterji, 2nd class competency, No. 19. Authorisation, No. 224, to act as manager of more than one mine.	...	M. L. Laik and Banerji, 7, Swallow Lane or Post Box No. 141, Calcutta.	...	80	47	
50	Damra Coal Co., Ltd. (See column No. 7).	Nuni	Nuni, Sitarampur or Asansol, E. I. E.	Devendra Narayan Roy, 2nd class service No. 48. Authorisation, No. 317, to act as manager of more than one mine.	...		...	16	57	
51	Damuda Coal Co., Ltd. (See column No. 7).	Bamundiha	Bamundiha, Sitarampur, E. I. E.	C. H. McCale, 1st class competency, No. 30, in lieu of English certificate. Authorisation No. 121, to act as manager of more than one mine.	J. Delmas	Balmer, Lawrie & Co., 103, Clive Street, or Post Box No. 4, Calcutta.	...	187	73	
52		Burra Dhemo	Burra Dhemo	...	...		...	69	38	
53		Gopalpur	Gopalpur, Sitarampur, E. I. E.	...	...		...	80	33	
54		Lutchipur	Lutchipur, Sitarampur, E. I. E.	...	...		...	233	129	
55	Daw, U. N., and others	Egarcoor	Egarcoor, Mugma, E. I. E.	...	...	...	...	...	...
56	Dey, Jugal Kishore, Chirkunda P. O.	Egarcoor	Egarcoor, Mugma, E. I. E.	Ashu Tosh Dey	...	...	...	4	2	
57	Dutt, Behari Lal, and Pal, Kali Charan, Nirbachati P. O.	Egarcoor	Egarcoor, Mugma, E. I. E.	Uday Charn Dass, Per- mit, No. 189.	...	...	...	6	15	

58	Dutt, Jadab Chandra Barakar P. O.	Mugma	Mugma, Mugma, E. I. R.	Madhab Chandra Dutta, <i>Permit, No. 197.</i>	...	...	20	10	
59	Dutt Kabra Coal Co. Barakar P. O.	Begunia	Begunia, Barakar, E. I. R.	Nagendra Nath Banerji, <i>Permit, No. 86.</i>	...	...	81	13	
60		Chattadanga	Egarcoor, Mugma, E. I. R.	Gurupada Bhattacharji, <i>Permit, No. 233.</i>	...	...	27	4	
61	Dutt, Prasanno Coomar Sitarampur P. O.	Bamundiha	Bamundiha, Sitarampur, E. I. R.	Hari Charan Dutt, <i>1st</i> <i>class service, No. 24.</i> <i>Authorization, No. 80,</i> <i>to act as manager of</i> <i>more than one mine.</i>	...	...	16	11	
62	East Indian Coal Co., Ltd. (See column No. 7).	Agoa	Agoa, Mugma, E. I. R.	Koilas Chandra Banerji, <i>2nd class service,</i> <i>No. 3.</i>	...	Jardine, Skinner & Co., 4, Clive Row, or Post Box No. 51, Calcutta.	...	...	J. J. Turnbull, General Manager.
63		Topatand	Topatand	H. W. F. Loughran, <i>1st</i> <i>class competency, No. 9.</i>
64	Egarcoor Coal Concern (Ganspat Singh and others). Barakar P. O.	Egarcoor	Egarcoor, Mugma, E. I. R.	Satyendra Nath Ghosh, <i>Permit, No. 169.</i>	...	...	26	21	
65	Equitable Coal Co., Ltd. (See column No. 7).	Chowraai	Chowraai, Barakar, E. I. R.	D. Blair, <i>1st class com-</i> <i>petency, No. 18.</i>	...	McNeill & Co., 1/3, Clive Ghat Street, or Post Box No. 15, Calcutta.	...	935	184	W. Miller, Superin- tendent.
66		Dishargarh	Dishargarh, Barakar, E. I. R.	W. M. Martin, <i>1st class</i> <i>competency, No. 62,</i> <i>in lieu of English</i> <i>certificate.</i>	...		...	1,399	333
67	Fatka Coal Co. (M. L. Laik; M. G. Chandra and others). Nirbhachati P. O.	Fatka or Pandedih	Pandedih, Mugma, E. I. R.	Aswini Kumar Datta. <i>Authorization, No.</i> <i>63, to act as tempor-</i> <i>ary manager.</i>	...	...	243	73	
68	Fatka (North), Coal Syndicate. T. L. Laik and others. Nirbhachati P. O.	Pitakiari	Pitakiari	Himansu Sekhor Mu- kherji, <i>Permit, No.</i> <i>232.</i>	...	...	...	...
69	Friends Coal Co. (Indra Bhushan Mukherji and Jagabandhu Roy). Nirbhachati P. O.	Bandarchooa	Bandarchooa	Kali Kumar Dey, <i>Per-</i> <i>mit No. 241.</i>	...	...	...	...
70	Ganguly, Janendra Nath Sitarampur P. O.	Sudih	Sudih, Sitarampur, E. I. R.	Bibhuti Bhushan Ganguli, <i>Permit, No. 191.</i>	...	...	...	...
71	Ganguly, Sircar, Roy & Co. Samdi P. O. Via Sitarampur.	Khoirabad	Khoirabad	Deendra Nath Ganguli	...	...	7	12	
72	Ghose, Kunja Behari Kulti P. O.	Ketherdih	.....	.....	...	...	27	6	
73		Palasia	Palasia	Kunja Behari Ghose	...	...	...	...

APPENDIX V—contd.

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

Serial number.	Name 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 Mine.	Name of Manager, and No. and Class of his Certificate, Authorization or Permit.	Name of Assistant Manager and No. and Class of his Certificate.	Name and address of Managing Agent.	Date of establishment of special Rules.	PERSONS EMPLOYED		REMARKS.
								Below ground.	Above ground.	
Bengal-Raniganj Coalfield (No. 2 Inspection Circle) — contd.										
74	Good Hope Coal Co. Kedar Nath Roy and Bhagwan Das, Munshi Bazar, Asansol P. O.	Birsingpur . . .	Birsingpur	Golap Chandar Roy . . .	...	...	...	19	6	
75	Gorsain, Nanda Lall and others Barakar P. O.	Begunia	Begunia, Barakar, E. I. R. . .	Rajendra Lal Sarkar . . .	...	...	...	...	...	Stopped since October 1907.
76	Jafat Yousf Barakar P. O.	Kapasara	Kapasara, Mugma, E. I. R. . .	Sarbeswar Sen, <i>Permit, No. 106.</i>	...	...	...	34	7	
77	Joydurga Colliery Co. (M. Chugdar and S. K. Mukherji) Nirshachati P. O.	Birsingpur	Birsingpur	Satya Kinkar Mukherji . . .	...	...	...	4	11	
78	Kalyaneswari Coal Co. Mugma P. O.	Kapasara	Kapasara, Mugma, E. I. R. . .	Jyotirmoy Konar, <i>Permit No. 224.</i>	...	...	...	10	10	
79	Laik, M. L. 7, Swallow Lane, Calcutta.	Hatnol	Hatnol	Baidya Nath Acharjia, <i>2nd class service, No. 24.</i>	...	...	...	42	23	
80	Laikdih (South) Coal Concern Chirkunda P. O.	Jograd	Jograd	Kamikhya Nath Ghat-tack, <i>2nd class service, No. 18.</i>	...	...	...	...	...	Previously owned by K. L. Mukherji & Co. and the Baraboni Coal Syndicate.
81	Lalla, Luchman Prosad Chirkunda P. O.	Kalimati	Kalimati, Barakar or Mugma, E. I. R.	Luchman Prosad Lalla, <i>Permit, No. 133.</i>	...	...	...	17	5	
82	Lutchipur Coal Co., Ltd. (See column No. 7).	Hatgaroie	Hatgaroie	C. E. St. P. Hill, <i>Permit, No. 138.</i>	...	...	...	199	150	
83		Lutchipur	Lutchipur, Sitarampur, E. I. R.	G. N. A. Pitt, <i>1st class competency, No. 77, in lieu of English certificate. Authorization, No. 520, to act as manager of more than one mine.</i>	...	Bird & Co., 101-1, Clive Street, or Post Box No. 46, Calcutta.	...	178	8	E. C. Agabeg, General Manager.
84		Panchgatchia	Panchgatchia, Sitarampur, E. I. R.	R. L. Barnett, <i>1st class service, No. 99.</i>	...		...	351	490	
85	MacNeill & Co. 1/2, Clive Ghat St., or Post Box No. 15, Calcutta.	Bejdih (4 mines).	Bejdih	G. K. Mitchell, <i>1st class competency, No. 38. Authorization, No. 283, to act as manager of more than one mine.</i>	71		113	W. Miller, Agent.

86	Mahakhyas and Laik Coal Co. Barakar P. O.	Egarcoor (North)	Egarcoor, Mugma, E. I. R.	Furendra Nath Laik, Permit, No. 246.	...	...	...	14	6
87	Manbhum (New) Coal Co., Ltd. (See column No. 7).	Dhundabad	Dhundabad, Sitarampur, E. I. R.	H. L. Wilkinson, 1st class competency, No. 25. Authorization, No. 274, to act as manager of more than one mine.	...	Octavius Steel & Co., 14, Old Court House Street, or Post Box No. 55, Calcutta.	...	346	188
88		Gopalpur	Gopalpur, Sitarampur, E. I. R.		...				
89	Marwari, Bireswar Lall Bameswar Salanpur P. O.	Champtoria	Champtoria	.....	...	...	...	...	...
90	Marwari, J. K. Chirkunda P. O.	Egarcoor	Egarcoor, Mugma, E. I. R.	Ashu Tosh Roy, Permit, No. 148.	...	...	...	...	...
91	Misra, Mangobinda and Boy, Rama Nath. Sandi P. O. 7/4 Sitarampur.	Fahargora	Fahargora	Mangobinda Misra, Permit, No. 125.	...	...	...	23	10
92	Misra, Shama Charan Sandi P. O. 7/4 Sitarampur.	Mahanpur (8 mines).	Mahanpur	Shama Charan Misra, Permit, No. 103. Authorization, No. 179, to act as manager of more than one mine.	...	...	...	12	6
93	Mugma Coal Association (H. M. Banerji), Barakar P. O.	Mugma	Mugma, Mugma, E. I. R.	Jugal Kishore Mukherji, Permit, No. 135.	...	...	...	35	27
94	Mugma Coal Co. Nirshachati P. O.	Mugma	Mugma, Mugma, E. I. R.	Kunja Behari Chandra.	...	...	...	3	1
95	Mukherji, Baman Das Diahargarh P. O.	Chota Dhemo	Chota Dhemo, Sitarampur, E. I. R.	Hari Pado Mukherji, 1st class service, No. 55.	...	...	...	223	90
96	Mukherji, Tinkari, 9/1, Sircar's Lane, Calcutta.	Dhadkadi	Dhadkadi	Bibhuti Bhuvan Ganguli, Permit, No. 191.	...	J. L. Banerji & Co., 14, Clive Street, Calcutta.	...	12	28
97	Mukherji, Umesh Chandra Anasol P. O.	Borachak	Borachak, Borachak, E. I. R.	Raj Ballav Mukherji, 2nd class service, No. 34.	...	...	...	89	45
98	Nandi, Maharaja Manindra Chandra. Cosumbazar P. O. Murehshabad.	Begunia	Begunia, Barakar, E. I. R.	Ajodhya Nath Mukherji	...	...	...	...	...
99		Begunia Khas	Begunia, Barakar, E. I. R.	...	...	...	...	182	60
100	Nodiha Coal Co. Ltd. Diahargarh P. O.	Nodiha	Nodiha	A. F. Pennetaber, 1st class competency, No. 1.	...	McNeill & Co., 1/2, Clive Ghat Street, or Post Box No. 15, Calcutta.	...	139	63
101	Oriental Coal Co., Ltd. Anasol P. O.	Joyramchak	Joyramchak	J. J. Marshall, 1st class competency, No. 85, in lieu of English certificate.	...	...	...	40	51
102		Palashdih	Palashdih	Authorization, No. 319, to act as manager of more than one mine.	...	Williamson, Magor & Co., 4, Mangoe Lane, or Post Box No. 177, Calcutta.	...	...	...

Monmotho Nath Roy,
General Manager.

W. Miller, Superintendent.

APPENDIX V—contd.

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

Serial number.	Name 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 Mine.	Name of Manager, and No. and Class of his Certificate, Authorization or Permit.	Name of Assistant Manager, and No. and Class of his Certificate.	Name and address of Managing Agent.	Date of establishment of Special Rules.	PERSONS EMPLOYED		REMARKS.
								Below ground.	Above ground.	
Bengal-Raniganj Coalfield (No. 2 Inspection Circle)—contd.										
181	Santikih Coal Co. (See column No. 7).	Balkuria	Balkuria	H. W. Loughran, 1st class competency, No. 9.	...	Jardine, Skinner & Co., 4, Clive Row, or Post Box No. 51, Calcutta.	...	...	...
182	Tarofdar & Co., D. N. Mugma P. O.	Brindabonpur (Model).	Kapasara, Mugma, E. I. B.	Girish Chandra Sircar	...	.....	...	35	16	
183	Umer, Aziz Barakar P. O.	Kapasara	Kapasara, Mugma, E. I. B.	Ganpat Nath Missir, Permit, No. 141.	...	.....	...	20	8	
Bengal-Raniganj Coalfield (No. 3 Inspection Circle).										
1	Adjai Coal Co. Ltd. (See column No. 7).	Nandi (2 mines).	Nandi, Jamuria or Raniganj, E. I. B.	Robert Mitchell, 1st class service, No. 2. Authorization, No. 181, to act as manager of more than one mine.	...	Andrew Yule & Co., 8, Clive Row, or Post Box No. 150, Calcutta.	...	448	280	
2	Apcar & Co. 18, Radha Bazar, Calcutta.	Charanpur (2 mines).	Domohani, Baraboni or Asansol, E. I. B.	E. M. Patterson, 1st class service, No. 4. Authorization, No. 206, to act as manager of more than one mine.	...	.....	...	212	214	F. J. Agabeg, General Manager.
3	Bagchi, Purna Chandra Kalipahari P. O.	Mosila	Mosila, Kalipahari, E. I. B.	Purna Chandra Bagchi, 2nd class service, No. 51. Authorization, No. 205, to act as manager of more than one mine.	...	Tansook Roy, Ram Kumar, 12, Mullick Street, Bara Bazar, Calcutta.	...	...	...
4	Baliram Coal Co. Kalipahari P. O.	Ghusik	Ghusik, Kalipahari, E. I. B.	Ananta Lall Ghosh, 1st class service, No. 116. Authorization, No. 38, to act as manager of more than one mine.	...	.....	...	172	61	
5		Srikistopur	Kalipahari, Kalipahari, E. I. B.	...	...	.....	...	69	42	
	Bamauband Coal Co., Ltd. (See column No. 7).	Bamauband	Bamauband, Toposi, E. I. B.	J. A. Miller, 1st class service, No. 14.	...	Shaw, Wallace & Co., 20, Strand Road, or Post Box No. 70, Calcutta.	...	36	192	

7	Bamundiha Coal Concern Kalipahari P. O.	Chhatapathar	Chhatapathar, Kalipahari, E. I. E.	...	...	Dwarka Nath Khettry, 89, Cross Street, Calcutta.	...	...	...	Previously owned by H. P. Banker & Co.
8	Banbistopur Coal Association, Asansol P. O.	Banbistopur	Banbistopur, Asansol, E. I. R.	Manindra Nath Chatterji, 2nd class service, No. 175.	...	Narendra Nath Gupta 77, Swallow Lane, Calcutta.	...	35	24	Previously owned by B. N. Singh.
9	Banerji & Co., J. L. 14, Clive Street, Calcutta.	Kajora	Kajora, Raniganj, E. I. R.	Badha Raman Roy, Permit, No. 204.	...	...	...	9	30	Previously owned by H. C. Dutt.
10	Banerji, Harihar Kalipahari P. O.	Ghusik (West)	Ghusik, Kalipahari, E. I. R.	Kasbipati Chatterji, 2nd class service, No. 173. Authori- zation, No. 293, to act as manager of more than one mine.	Kani Lall Adi- kheri.	...	...	75	48	
11	Banerji, Kashi Bilash Raniganj P. O.	Jamunakanali	Jamunakanali, Raniganj, E. I. R.	Protap Chandra Topa- dar, 2nd class ser- vice, No. 105.	...	...	...	...	...
12	Banerji, Baghu Nath and others Mejia P. O., vid Raniganj.	Kalikapur	Kalikapur, Raniganj, E. I. E.	...	...	...	...	31	12	
13	Bankura Coal Co. (H. H. Banerji and B. C. Mukherji). Kalipahari P. O.	Dobelia	Kalipahari, Kalipahari, E. I. E.	Kashi Pathi Chatterji, 2nd class service, No. 172. Authori- zation, No. 298, to act as manager of more than one mine.	...	...	...	15	11	Harihar Banerji, General Manager.
14	Banarab Coal Co., Ltd. (See column No. 7).	Toposi	Toposi, Toposi or Raniganj, E. I. R.	T. Thomson, 1st class service, No. 57. Au- thorization, No. 276, to act as manager of more than one mine.	...	Kilburn & Co., 4, Fairlie Place, or Post Box No. 61, Calcutta.	...	147	110	Previously owned by the Raniganj Coal Association, Ltd.
15	Baraboni Coal Concern, Ltd. (See column No. 7).	Baraboni	Baraboni, Asansol or Bara- boni, E. I. R.	James Brown, 1st class competency, No. 102, in lieu of English certificate. Authori- zation, No. 267, to act as manager of more than one mine.	...	N. C. Sircar & Sons, 5, Clive Ghat Street, or Post Box No. 285, Calcutta.	...	119	72	W. Burt, Superintend- ing Engineer.
16		Haripur	Haripur, Toposi or Raniganj, E. I. E.	Sarat Chunder Dutt, 2nd class service, No. 88.	...		...	185	26	
17		Nimcha	Nimcha, Raniganj, E. I. E.	Pulin Behari Mitra, 2nd class service, No. 56.	...		...	182	24	
18	Baraboni (New) Coal Co. (Kunja Behari Pal Chowdhuri and others), Charanpur P. O.	Baraboni (New)	Baraboni, Asansol or Baraboni, E. I. E.	Debendra Nath Bhatta- charji, Permit, No. 163.	...	...	...	1	5	
19	Baraboni (South) Coal Co. (Kunja Behari Pal Chowdhuri), Charanpur P. O.	Baraboni (South)	Baraboni, Asansol or Bara- boni, E. I. E.	F. C. Lardner, 2nd class service, No. 90. Authorisation, No. 110, to act as manager of more than one mine.	...	...	...	56	14	

APPENDIX V—contd.

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

Serial number.	Name 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 Mine.	Name of Manager, and No. and Class of his Certificate, Authorization or Permit.	Name of Assistant Manager, and No. and class of his Certificate.	Name and address of Managing Agent.	Date of establishment of special Rules.	PERSONS EMPLOYED		REMARKS.
								Below ground.	Above ground.	
Bengal-Raniganj Coalfield (No. 2 Inspection Circle)—concl'd.										
181	Satikdih Coal Co. (See column No. 7).	Balkuria	Balkuria	H. W. Loughran, <i>1st class competency, No. 9.</i>	...	Jardine, Skinner & Co., 4, Clive Row, or Post Box No. 51, Calcutta.	...	...	...
182	Tarofdar & Co., D. N. Mugma P. O.	Brindabonpur (Model).	Kapasara, Mugma, E. I. B.	Girish Chandra Sircar	...	.....	...	35	16	
183	Umer, Aziz Barakar P. O.	Kapasara	Kapasara, Mugma, E. I. B.	Ganpat Nath Misir, <i>Permit, No. 141.</i>	...	.....	...	20	3	
Bengal-Raniganj Coalfield (No. 3 Inspection Circle).										
1	Adjai Coal Co., Ltd. (See column No. 7).	Nandi (2 mines).	Nandi, Jamuria or Raniganj, E. I. B.	Robert Mitchell, <i>1st class service, No. 2. Authorization, No. 131, to act as manager of more than one mine.</i>	...	Andrew Yule & Co., 8, Clive Row, or Post Box No. 150, Calcutta.	...	448	280	
2	Apcar & Co. 18, Madha Bazar, Calcutta.	Charanpur (2 mines).	Domohani, Baraboni or Asansol, E. I. B.	E. M. Patterson, <i>1st class service, No. 4. Authorization, No. 206, to act as manager of more than one mine.</i>	...	.....	...	212	214	F. J. Agabeg, General Manager.
3	Bagchi, Purna Chandra Kalipahari P. O.	Mosila	Mosila, Kalipahari, E. I. B.	Purna Chandra Bagchi, <i>2nd class service, No. 51. Authorization, No. 205, to act as manager of more than one mine.</i>	...	Tansook Roy, Ram Kumar, 12, Mullick Street, Bara Bazar, Calcutta.	..	...	...
4	Baliram Coal Co. Kalipahari P. O.	Ghusik	Ghusik, Kalipahari, E. I. B.	Ananta Lall Ghosh, <i>1st class service, No. 115. Authorization, No. 38, to act as manager of more than one mine.</i>	...	.....	...	172	61	
5		Strikistopur	Kalipahari, Kalipahari, E. I. B.	...	...	.....	...	69	42	
	Bamanband Coal Co., Ltd. (See column No. 7).	Bamanband	Bamanband, Toposi, E. I. B.	J. A. Miller, <i>1st class service, No. 14.</i>	...	Shaw, Wallace & Co., 20, Strand Road, or Post Box No. 70, Calcutta.	...	36	192	

7	Bamundiha Coal Concern Kalipahari P. O.	Chhatapathar	Chhatapathar, Kalipahari, E. I. R.	...	...	Dwarka Nath Khettry, 89, Cross Street, Calcutta.	...	...	...	Previously owned by H. P. Banker & Co.
8	Banbistopur Coal Association, Asansol P. O.	Banbistopur	Banbistopur, Asansol, E. I. R.	Manindra Nath Chatterji, 2nd class service, No. 175.	...	Narendra Nath Gupta 77, Swallow Lane, Calcutta.	...	35	24	Previously owned by R. N. Singh.	
9	Banerji & Co., J. L. 14, Clive Street, Calcutta.	Kajora	Kajora, Raniganj, E. I. R.	Badha Raman Roy, Permit, No. 204.	...	...	...	9	80	Previously owned by H. C. Dutt.
10	Banerji, Haribar Kalipahari P. O.	Ghusik (West)	Ghusik, Kalipahari, E. I. R.	Kashipati Chatterji, 2nd class service, No. 173. Authori- zation, No. 293, to act as manager of more than one mine.	Kavi Lal Adi- kheri.	...	...	75	43	
11	Banerji, Kasbi Bilash Raniganj P. O.	Jamunakanali	Jamunakanali, Raniganj, E. I. R.	Protap Chandra Topa- dar, 2nd class ser- vice, No. 105.	...	...	...	...	...
12	Banerji, Baghu Nath and others Mejia P. O., <i>vid</i> Raniganj.	Kalikapur	Kalikapur, Raniganj, E. I. R.	...	...	...	...	81	12	
13	Banura Coal Co. (H. H. Banerji and E. G. Mukherji). Kalipahari P. O.	Dobalia	Kalipahari, Kalipahari, E. I. R.	Kashi Pathi Chatterji, 2nd class service, No. 173. Authori- zation, No. 248, to act as manager of more than one mine.	...	...	...	15	11	Haribar Banerji, General Manager.
14	Banerah Coal Co., Ld. (See column No. 7).	Toposi	Toposi, Toposi or Raniganj, E. I. R.	T. Thomson, 1st class service, No. 57. Au- thorization, No. 276, to act as manager of more than one mine.	...	Kilburn & Co., 4, Fairlie Place, or Post Box No. 61, Calcutta.	...	147	110	Previously owned by the Raniganj Coal Association, Ld.	
15	Baraboni Coal Concern, Ld. (See column No. 7).	Baraboni	Baraboni, Asansol or Bara- boni, E. I. R.	James Brown, 1st class competency, No. 102, <i>in lieu of</i> English certificate. Authori- zation, No. 267, to act as manager of more than one mine.	...	N. C. Sircar & Sons, 5, Clive Ghat Street, or Post Box No. 285, Calcutta.	...	119	72	W. Dart, Superintend- ing Engineer.	
16		Haripur	Haripur, Toposi or Raniganj, E. I. R.	Sarat Chunder Dutt, 2nd class service, No. 88.	185		26
17		Nimcha	Nimcha, Raniganj, E. I. R.	Pulin Behari Mitra, 2nd class service, No. 56.		132	24
18	Baraboni (New) Coal Co. (Kunja Behari Pal Chowdhuri and others), Charanpur P. O.	Baraboni (New)	Baraboni, Asansol or Baraboni, E. I. R.	Debendra Nath Bhatta- sharji, Permit, No. 163.	...	...	...	1	5	
19	Baraboni (South) Coal Co. (Kunja Behari Pal Chowdhuri), Charanpur P. O.	Baraboni (South)	Baraboni, Asansol or Bara- boni, E. I. R.	F. C. Lardner, 2nd class service, No. 90. Authorization, No. 110, to act as manager of more than one mine.	...	...	...	56	14	

APPENDIX V—contd.

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

Serial number.	Name 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 Mine.	Name of Manager, and No. and Class of his Certificate, Authorization or Permit.	Name of Assistant Manager, and No. and class of his Certificate.	Name and address of Managing Agent.	Date of establishment of Special Rules.	PERSONS EMPLOYED		REMARKS.
								Below ground.	Above ground.	
Bengal-Raniganj Coalfield (No. 3 Inspection Circle)—contd.										
20	Barakar Coal Co., Ltd. (See column No. 7).	Jamgram	Jamgram, Gaurangdi, E. I. R.	A. H. Williams, <i>1st class competency, No. 115, in lieu of English certificate. Authorization, No. 243, to act as manager of more than one mine.</i>	...	Bird & Co., 101/1, Clive Street, or Post Box No. 46, Calcutta.	...	691	87	E. C. Agabeg, Superintendent.
21		Kantapahari	Kantapahari, Gaurangdi, E. I. R.	E. G. Nash, <i>1st class competency, No. 39. Authorization, No. 302, to act as manager of more than one mine.</i>	...		...	465	185	
22	Basanti Oaktene Coal Co. (See column No. 7).	Basantipur	Mamudpur, Toposi or Raniganj, E. I. R.	B. L. Brodhurst, <i>1st class competency, No. 38, in lieu of English certificate.</i>	...	Stanley Oakes & Co., 5, Mangoe Lane, Calcutta.	...	...	...
23		Monzra								
24	Beerbhumi (New) Coal Co., Ltd. (See column No. 7).	Chinchuria (7 mines)	Chinchuria, Baraboni or Asansol, E. I. R.	Charles Lea, <i>1st class competency, No. 53, in lieu of English certificate. Authorization, No. 118, to act as manager of more than one mine.</i>	...	Balmer, Lawrie & Co., 108, Clive Street, or Post Box No. 4, Calcutta.	...	183	168	S. Healey, General Manager.
25		Jairamdanga and Baraboni.	Jairamdanga, Asansol or Baraboni, E. I. R.	A. Russell, <i>1st class competency, No. 54, in lieu of English certificate. Authorization, No. 67, to act as manager of more than one mine.</i>	...		...	862	400	
26		Banksimulla and Faridpur.	Banksimulla, Asansol, E. I. R.	F. Cooper, <i>1st class competency, No. 24. Authorization, No. 304, to act as manager of more than one mine.</i>	...	...	...	140	62	

29	Bengal Coal Co., Ltd. (See column No. 7).	Damudapur	Damudapur, Raniganj or Ikra, E. I. E.	A. J. Cooper, <i>1st class competency, No. 9.</i>	...	Andrew Yule & Co., 8, Clive Row, or Post Box No. 150, Calcutta.	...	361	243	G. F. Scott, Chief Mining Engineer.
30		Raniganj	Egara, Raniganj, E. I. E.	P. H. Ashcroft, <i>1st class service, No. 11.</i>	...	...	...	279	182	
31	Bhagirathi Coal Co. Kalipahari P. O.	Bhutdoba	Kalipahari, Kalipahari, E. I. E.	Kshetra Nath Dey, <i>Permit, No. 143.</i>	Fran Gobinda Sirkar.	...	...	30	20	
32	Bhatta-harji, Shasi Bhusan Chora P. O.	Haripur	Haripur, Toposi or Raniganj, E. I. E.	Nil Madhab Chakra- butti, <i>2nd class service, No. 104.</i>	...	...	...	...	...
33	Bhuskajuri Coal Co., Ltd. (See column No. 7).	Bhuskajuri (2 mines).	Bhuskajuri, Asansol or Baraboni, E. I. E.	H. C. Read, <i>1st class service, No. 121. Authorization, No. 277, to act as manager of more than one mine.</i>	Gregory Sam	Bird & Co., 101-1, Clive Street, or Post Box No. 46, Calcutta.	...	280	76	E. C. Agabeg, General Manager.
34		Babisole (8 mines).	Babisole	T. M. Greenshields, <i>1st class competency, No. 134, in lieu of English certificate. Authori- zation, No. 290, to act as manager of more than one mine.</i>	...	...	...	46	12	W. Burt, Superintend- ing Engineer.
35	Bibera Coal Co., Ltd. (See column No. 7).	Baraboni	Baraboni, Baraboni or Asansol, E. I. E.	Jas. Brown, <i>1st class competency, No. 103, in lieu of English certificate. Authori- zation, No. 257, to act as manager of more than one mine.</i>	...	N. C. Sircar & Sons, 5, Clive Ghat Street, or Post Box No. 285, Calcutta.	...	68	32	Previously owned by Burmon & Co., and then by the Baraboni Coal Association.
36	British India Coal Co., Ltd. (See column No. 7).	Napara (8 mines).	Napara, Baraboni or Asansol, E. I. E.	M. J. Adamson, <i>1st class service, No. 51. Authorization, No. 315, to act as manager of more than one mine.</i>	...	Williamson, Magor & Co., 4, Mango Lane, or Post Box No. 177, Cal- cutta.	...	90	30	
37	Burdwan Coal Co. (G. B. and H. T. Sircar) Kalipahari P. O.	Mosila	Mosila, Kalipahari, E. I. E.	Promoda Chandra Ma- kherji, <i>Permit, No. 215.</i>	...	...	...	33	19	
38	Burdwan (New) Coal Co. Kalipahari P. O.	Mosila	Mosila, Kalipahari, E. I. E.	Purna Chandra Bagchi, <i>2nd class service, No. 51. Authorization, No. 265, to act as manager of more than one mine.</i>	...	...	...	15	9	

APPENDIX V—contd.

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

Serial number.	Name 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 Mine.	Name of Manager, and No. and Class of his Certificate, Authorisation or Permit.	Name of Assistant Manager, and No. and Class of his Certificate.	Name and address of Managing Agent.	Date of establishment of Special Rules.	PERSONS EMPLOYED		REMARKS.
								Below ground.	Above ground.	
Bengal-Raniganj Coalfield (No. 3 Inspection Circle)—contd.										
39	Burn & Co. The Potteries, Raniganj P. O.	Pottory (3 mines).	Raniganj, Raniganj, E. I. R.	J. T. Mackenzie, 1st class competency, No. 117, in lieu of English certificate. Authorisation, No. 221, to act as manager of more than one mine.		Burn & Co., 7, Hastings Street, or Post Box No. 191, Calcutta.	...	54	18	
40		Sunkerpur	Sunkerpur	Hem Chand Jaggibon Mehta. Permit, No. 177.	...	...	...	12	16	
41	Chatterji, Pran Kishen Chowkidanga P. O.	Jotejanaki (2 mines).	Jotejanaki, Toposi or Raniganj, E. I. R.	Nishapati Chatterji, 1st class service, No. 127. Authorisation, No. 236, to act as manager of more than one mine.	...	...	...	102	41	
42	Chelode Coal Co., Ltd. (See column No. 7).	Chelode	Kuordih, Kalipahari, E. I. R.	W. Barnard, 1st class competency, No. 26. Authorisation, No. 207, to act as manager of more than one mine.	...	H. V. Low & Co., Calcutta.	...	6	42	
43	Cooverji Bhoja Kalipahari P. O.	Mosila	Mosila, Kalipahari, E. I. R.	Khimji Dhunji Permit, No. 207.	...	...	...	25	10	
44	Damra Coal Co., Ltd. (See column No. 7).	Damra (Old) (9 mines).	Damra, Kalipahari, E. I. R.	Sasi Bhusan Patra, 2nd class service, No. 33. Authorisation, No. 164, to act as manager of more than one mine.	...	M. L. Laik and Benerji, 7, Swallow Lane, or Post Box No. 141, Calcutta.	...	91	26	
45		Kanchka (2 mines).	Ghusik, Kalipahari, E. I. R.
46		Napara	Napara, Baraboni or Asansol, E. I. R.	Devendra Narayan Roy, 2nd class service, No. 43. Authorisation, No. 317, to act as manager of more than one mine.	...	...	...	67	34	
47	Dhadka Coal Co. (Seth Gopal Dass Trikumji) 25, Pollock Street, Calcutta.	Dhadka	Dhadka, Asansol, E. I. R.	Javerlal Kalyanray Dholakia, 2nd class competency, No. 36.	...	Tricumji, Jiban Das & Co., 25, Pollock Street, Calcutta.	...	...	...

48	Dobrana (New) Coal Co. (Jagodeb Persad and Basdeb Prosad), Chora P. O.	Dobrana (New).	Dobrana, Topos or Raniganj, E. I. E.	Jagodeb Prosad, <i>Permit, No. 160.</i>	.....	.....	8	15	
49	Eastern Coal Co., Ltd. (See column No. 7).	Bankola	Bankola, Ukhra or Raniganj, E. I. E.	A. H. Ward, <i>1st class competency, No. 65, in lieu of English certificate.</i>	.....	Mackinnon, Mackenzie & Co., 18, Strand Road, or Post Box No. 163, Calcutta.	250	255	A. H. Ward, General Manager.
50		Jobs or Jotemotuk	Jobs, Raniganj, E. I. R.	W. Angier, <i>1st class service, No. 66.</i>	.....	.....	216	149	
51	Equitable Coal Co., Ltd. (See column No. 7).	Jamuria	Jamuria, Jamuria, Asansol or Raniganj, E. I. E.	E. Heron, <i>1st class competency, No. 69, in lieu of English certificate. Authorization, No. 322, to act as manager of more than one mine.</i>	.....	MacNeill & Co., 2, Clive Ghat Street, or Post Box No. 15, Calcutta.	752	209	W. Miller, Superintendent.
52		Satpukuria	Satpukuria, Asansol, E. I. E.	J. DeSouza, <i>2nd class competency, No. 2.</i>	.....	.....	36	10	
53	Faridpur Coal Co. (Soshi Bhusan Mukherji), 6, Fakir Ch. Chuckerbutty's Lane, Beadon Square P. O., Calcutta.	Faridpur	Charanpur, Baraboni or Asansol, E. I. R.	Kanti Chandra Bhattacharji, <i>2nd class service, No. 111. Authorization No. 316, to act as manager of more than one mine.</i>	.....	Tansookroy Ramusth, 12, Mullick Street, Calcutta.	68	34	
54	Ghusik and Muslia Collieries, Ltd. (Creech & Co., S. T.), Kalipahari P. O.	Asansol	Asansol, Asansol, E. I. E.	T. Ashley, <i>1st class competency, No. 129, in lieu of English certificate. Authorization, No. 289, to act as manager of more than one mine.</i>	.....	.....	11	22	
55		Baraboni	Baraboni, Baraboni or Asansol, E. I. R.	M. A. Creech. <i>Authorization, No. 16, to manage the mines temporarily.</i>	.....	Martin & Co., 6 & 7, Clive Street, or Post Box No. 28, Calcutta.	72	57	S. T. Creech, General Manager.
56		Ghusik (3 mines).	Ghusik	Ghusik, Kalipahari, E. I. E.	A. T. Creech, <i>1st class service, No. 36.</i>	P. J. Peters and I. A. Creech.	393		222
57	Muslia	.....	.....	T. Ashley, <i>1st class competency, No. 129, in lieu of English certificate. Authorization, No. 289, to act as manager of more than one mine.</i>	.....	.....	41	24	
58	Ghusik Coal Co. (Hem Ch. Ghosh), Kalipahari P. O.	Ghusik	Ghusik, Kalipahari, E. I. E.	G. W. Ogilvie	.....	.....	.....	.....
59	G. M. Agreeable Coal Co., Kalipahari P. O.	Komabganj	Komabganj, Kalipahari, E. I. R.	Gosto Behary Dutt, <i>Permit, No. 214.</i>	.....	.....	34	27	

APPENDIX V—contd.

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

Serial number.	Name 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 Mine.	Name of Manager, and No. and Class of his Certificate, Authorization or Permit.	Name of Assistant Manager and No. and Class of his Certificate.	Name and address of Managing Agent.	Date of establishment of Special Rules.	PERSONS EMPLOYED		REMARKS.
								Below ground.	Above ground.	
Bengal-Raniganj Coalfield (No. 3 Inspection Circle)—contd.										
60	Hariladh Coal Co., Ltd. (See column No. 7).	Akhalpur (6 mines).	Akhalpur, Jamuria, or Raniganj, E. I. R.	G. S. Martin, <i>1st class competency, No. 133, in lieu of English certificate. Authorization, No. 321, to act as manager of more than one mine.</i>	...	MacNeill & Co., 2, Clive Ghat Street, or Post Box No. 15, Calcutta.	...	204	107	W. Miller, Superintendent.
61	Imperial Coal Co., Ltd. (See column No. 7).	Madhubpur. (2 mines).	Madhubpur	T. M. Greenshields, <i>1st class competency, No. 134, in lieu of English certificate. Authorization, No. 290, to act as manager of more than one mine.</i>	...	N. C. Sircar & Sons, 5, Clive Ghat Street, or Post Box No. 285, Calcutta.	...	85	14	
62	Kajora Coal Co. (P. E. & S. S. Guzadar). Ondal P. O.	Kajora	Kajora, Raniganj, E. I. R.	Surendra Nath Mukerji, <i>2nd class service, No. 161.</i>	...	...	...	16	26	
63	Katras-Jharis Coal Co., Ltd. (See column No. 7).	Sibpur (4 mines).	Sibpur, Raniganj or 'Asansol, E. I. R.	P. S. Keelan, <i>1st class service, No. 34. Authorization, No. 115, to act as manager of more than one mine.</i>	P. Sydney.	Andrew Yule & Co., 8, Clive Row, or Post Box No. 150, Calcutta.	...	546	147	
64	Kaviraj, Ram Lall Gaurangi P. O.	Sultanpur	Sultanpur, Churulia, E. I. R.	Kali Dass Chatterji	...	...	...	19	6	
65	Kenda (Central) Coal Co. (J. A. Millar), Chowkidanga P. O.	Kenda	Kenda, Toposi or Raniganj, E. I. R.	J. A. Millar, <i>1st class service, No. 14. Authorization, No. 225, to act as manager of more than one mine.</i>	...	...	...	40	10	
66	Kenda (New) Coal Co., Ltd. Chora P. O.	Kenda (8 mines).	Kenda, Toposi or Raniganj, E. I. R.	H. M. Daly, <i>1st class service, No. 28.</i>	...	Balmer, Lawrie & Co. Calcutta.	...	169	130	S. Heslop, Superintendent.
67	Kenda (South) Coal Co. (J. C. Martin). Chowkidanga P. O.	Banakuri	Toposi or Raniganj, E. I. R.	J. C. Martin, <i>2nd class service, No. 64.</i>	...	...	...	59	24	
68	Koolustore Coal Co., Ltd. (See column No. 7).	Koolustore	Koolustore	A. H. Higby, <i>1st class service, No. 86. Authorization, No.</i>	W. F. Bampton.	Begg, Dunlop & Co., 12, Mission Row, or Post Box No. 171, Calcutta.	...	54	88	

69	Kuordih Coal Co., Ltd. (See column No. 7).	Kuordih (4 mines).	Kuordih, Kalipahari, E. I. R.	292, to act as manager of more than one mine. W. Barnard, 1st class competency, No. 26. Authorization, No. 207, to act as manager of more than one mine.	...	H. V. Low & Co., Calcutta.	115	28	R. Barnard, Superintending Engineer.
70	Kuordih (East) Coal Co., Ltd. (See column No. 7).	Kuordih (East)	Kuordih, Kalipahari, E. I. R.	...	...	...	85	44	
71	Lak, Mukundo Lall 7, Swallow Lane, Calcutta.	Haripur	Haripur, Toposi or Raniganj, E. I. R.	Jogendra Nath Chatterji, 2nd class service, No. 50.	...	...	54	10	
72	Lakshmiganj Coal Co., Ltd. (See column No. 7).	Lakshmiganj	Dobrasa, Toposi or Raniganj, E. I. R.	Annada Prosad Roy. Authorization, No. 59, to act as temporary manager.	...	E. Borooah & Co., 8, Hare Street, Calcutta.	32	24	Previously owned by Peary Lal Daw.
73	Lodna Coal Co.	Jambad	Jambad, Poraskole, Chora, E. I. R.	A. E. McGrath	...	Turner, Morrison, No. 6, Lyons Range, Calcutta.	18	131	Previously owned by R. B. Mukherji & Co.
74	Malia, D. & R., Raniganj P. O.	Jamehari	Jamehari, Raniganj, E. I. R.	Sita Nath Dutta	Rishi Kesh Mukherji.	...	197	82	
75	Malia, R., Raniganj P. O.	Searsol	Searsol, Raniganj, E. I. R.	Mohananda Mukherji, 1st class service, No. 13.	...	...	161	134	
76	Mangalpur Coal Concern (R. B. Das, Ghose & Co.) Raniganj P. O.	Mangalpur	Mangalpur, Toposi, E. I. R.	Pramatha Nath Guha, Permit, No. 217.	...	...	...	...
77	Manjhara Collieries Co. (See column No. 7).	Manjhara	Manjhara	W. Lawrie, 1st class competency, No. 76, in lieu of English certificate. Authori- zation, No. 260, to act as manager of more than one mine.	...	F. W. Heilgers & Co., 136, Canning Street, or Post Box No. 185, Cal- cutta.	24	86	
78	Martin, J. C. Chowkidanga P. O.	Sitalpur	Sedoli, Ukhra, E. I. R.	Kashi Nath Mukherji, Permit, No. 199.	...	...	...	...
79	Marwari, Fulchand Chowkidanga P. O.	Kenda	Toposi or Raniganj, E. I. R.	Fulchand Marwari, 2nd class service, No. 180.	...	...	27	36	
80		Ghusik (North)	Ghusik, Kalipahari, E. I. R.	Piramal Marwari, Permit, No. 211.	...	...	...	...
81	Marwari, Ganapat Ram Kalipahari P. O.	Kesabganj	Kesabganj, Kalipahari, E. I. R.	Show Karam Marwari, 2nd class service, No. 6.	...	...	75	50	
82	Marwari, Harmuk	Ghusik (North)	Ghusik, Kalipahari, E. I. R.	.....	...	...	...	...
83	Marwari, Jagannath Raniganj P. O.	Bunbehal	Bunbehal, Ukhra or Raniganj, E. I. R.	Ram Chandra Chatterji	...	...	...	...	Closed.
84		Dobrasa	Dobrasa, Toposi or Raniganj, E. I. R.	Umabrosad Mukherji, 2nd class service, No. 27. Authoriza- tion, No. 193, to act as manager of more than one mine.	...	...	28	32	

APPENDIX V—contd.

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

Serial number.	Name 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 Mine.	Name of Manager, and No. and Class of his Certificate, Authorization or Permit.	Name of Assistant Manager, and No. and Class of his Certificate.	Name and address of Managing Agent.	Date of establishment of Special Sales.	PERSONS EMPLOYED		REMARKS.	
								Below ground.	Above ground.		
Bengal-Raniganj Coalfield (No. 3 Inspection Circle)—contd.											
85	Marwari, Ram Bilas Kalipahari P. O.	Kesabganj . . .	Kesabganj, Kalipahari, E. I. R.	Ram Bilas Marwari, 2nd class service, No. 55.	...	...	...	17	7	
86	Meyer Coal Co. (See column No. 7).	Jubilee . . .	Kalipahari, Kalipahari, E. I. R.	Basanto Kumar Dutta, 2nd class service, No. 70. Authorization, No. 196, to act as manager of more than one mine.	Babu Lal Tanti. Muhabir Pro- sad Dass.	Meyer Brothers, 28, Pollock Street, Calcutta.	...	41	6		
87		Nichinta . . .	Nichinta, Kalipahari, E. I. R.	...	...		...	98	15	
88		Nuniapool . . .	Kalipahari, Kalipahari, E. I. R.	...	...		...	28	3	
89		Nimcha . . .	Nimcha, Raniganj, E. I. R.	Rameswar Mukherji, Permit, No. 103.	Girindra Nath Savcar.		...	25	11	Previously owned by Mr. A. Whyte.	
90	Millar, J. A. Chowkidanga P. O.	Arrong . . .	Arrong, Churulia, E. I. R.	M. Hussain Box . Permit, No. 179.	...	...	...	57	20	
91	Minto Coal Co., Ltd. (See column No. 7).	Nandi or Minto No. 2.	Nandi Jamuria or Raniganj, E. I. R.	C. H. L. Tweedie, 2nd class competency, No. 14. Authoriza- tion, No. 140, to act as manager of more than one mine.	...	Andrew Yule and Co., 8, Clive Row, or Post Box No. 150, Calcutta.	...	...	...	P. S. Keelan, General Manager.
92		Shekpur or Minto No. 1.	Shekpur, Raniganj, E. I. R.	
93		Sibpur . . .	Sibpur, Jamuria or Raniganj, E. I. R.
94	Mukherji, Baman Dass. Kalipahari P. O.	Ghusik (New) . . .	Ghusik, Kalipahari, E. I. R.	.....	...	...	...	47	58	
95	Mukherji, Romesh Chandra Kalipahari P. O.	Ghusik . . .	Ghusik, Kalipahari, E. I. R.	Purna Chandra Bur- mon, 2nd class service, No. 75.	...	...	...	33	19	
96	Mundulpur Coal Co., Ltd. (See column No. 7).	Mundulpur . . .	Mundulpur . . .	G. S. Martin, 1st class competency, No. 133, in lieu of English certificate. Authori- zation, No. 321, to act as manager of more than one mine.	...	MacNeill & Co., 1-2, Clive Ghat Street, or Post-Box No. 15, Calcutta.	...	13	32	W. Miller, Agent.	
97	Nandi Coal Association (Siba Prosad and others) Nandi P. O.	Nandi . . .	Nandi, Jamuria or Raniganj, E. I. R.	Suchand Ghosh, 2nd class service, No. 44.	Pasupati Chatterji & Momindro Kinkor Nyak.	...	...	103	29	

98	Nandi, Maharaja Manindra Chandra, Cossimbazar P. O. Murshidabad.	Napara	Napara, Baraboni or Asansol, E. I. R.	Kali Prasanna Punja, 2nd class service, No. 102.	...	...	114	83	Monmotho Nath Roy, General Manager.	
99		Vanora Khas (9 mines).	Vanora, Baraboni or Asansol, E. I. R.	Rajoni Prokash Chakrabarty, 1st class service, No. 112. Authorization, No. 181, to act as manager of more than one mine.	...	...	133	79		
100	Niga Valley Coal Co. (Soahi Bhuson Mukherji) 6, Fakir Chand Chuckerbutty's Lane, Beadon Square P. O., Calcutta.	Niga Valley (5 mines).	Kalipahari, Kalipahari, E. I. R.	Bepin Behari Mukherji, 2nd class service, No. 176. Authorization, No. 314, to act as manager of more than one mine.	Beni Madhab Mukherji	Tansook Roy Ramnath, 12, Mullick's Street, Calcutta.	...	37	29	
101	Ondal Coal Co., Ltd. (See column No. 7).	Bowlah	Bowlah, Toposi or Raniganj, E. I. R.	H. T. C. Martin, 1st class service, No. 5.	...	F. W. Heilgers & Co., 136, Canning Street, or Post Box No. 185, Calcutta.	...	12	62	J. MacIntosh, General Manager.
102		Chora	Chora, Toposi or Raniganj, E. I. R.		...		233	150		
103		Sunpur	Sunpur, Toposi or Raniganj, E. I. R.		A. W. Darby, 1st class competency, No. 87, in lieu of English certificate.		...	55	81	
104	Parasea Collieries, Ltd. (See column No. 7).	Parasea	Parasea	J. A. Millar, 1st class service, No. 14. Authorization, No. 225, to act as manager of more than one mine.	...	Shaw, Wallace & Co., No. 20, Strand Road, or Post Box No. 70, Calcutta.	...	28	243	
105	Phularitand Coal Co., Ltd. (See column No. 7).	Banali	Banali	Lal Chand Mukherji, 1st class service, No. 123. Authorization, No. 294, to act as manager of more than one mine.	...	N. C. Sircar & Sons, 5, Clive Ghat Street, or Post Box No. 285, Calcutta.	...	96	76	R. Barnard, Superintending Engineer.
106		Damra (New)	Damra, Kalipahari, E. I. R.	Kanderpa Moban Morumdar, 2nd class competency, No. 21.	...	...	75	51		
107	Paniati Coal Concern (U. C. Roy & Co.—A. C. Ghosh). Charanpur P. O.	Faridpur	Domohani, Asansol, E. I. R.	Umesh Chandra Rai, 2nd class service, No. 54.	Jagad Bhusan Rai Choudhuri	Woomeah Chander Banerji, 20, Chunnapukur Lane, Calcutta.	...	75	44	Previously owned by Apear & Co.
108	Provincial Coal Co. (E. N. Forbes and P. G. Scott) Asansol P. O.	Ranadanga	Charanpur	E. N. Forbes, Permit, No. 162.	...	...	...	...	...	...
109	Raghunathchak Coal Co.	Raghunathchak	Raghunathchak, Raniganj, E. I. R.	Shama Charan Chatterji, Permit, No. 162.	...	...	...	...	...	...

APPENDIX V—*contd.*

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

Serial number.	Name 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 Mine.	Name of Manager, and No. and Class of his Certificate, Authorization or Permit.	Name of Assistant Manager, and No. and Class of his Certificate.	Name and address of Managing Agent.	Date of establishment of Special Rules.	PERSONS EMPLOYED		REMARKS.
								Below ground.	Above ground.	
Bengal-Raniganj Coalfield (No. 3 Inspection Circle) — <i>concl'd.</i>										
110	Reliance Coal Co., Ltd. (See column No. 7).	Charanpur (6 mines).	Domohani, Asansol, E. I. R.	H. M. Tarlton, <i>1st class competency, No. 124, in lieu of English certificate. Authorization, No. 313, to act as manager of more than one mine.</i>	E. G. Rooke, <i>2nd class competency, Nos. 6 and 27</i>	Bird & Co., 101-1, Clive Street, or Post Box No. 46, Calcutta.	...	248	125	E. C. Agabeg, General Manager.
111	Roy, Dutt & Co. Ondal P. O.	Kajora	Kajora, Raniganj, E. I. R.	Hem Chandra Dutt, <i>1st class service, No. 24.</i>	...	...	...	23	29	
112	Royal Coal Co., Ltd. (See column No. 7).	Poraskole	Poraskole	T. M. Greenshields, <i>1st class competency, No. 134, in lieu of English certificate. Authorization, No. 290, to act as manager of more than one mine.</i>	...	N. C. Sircar & Sons, 5, Clive Ghat Street, or Post Box No. 285, Calcutta.	...	6	18	
113	Sadhu, Kishori Mohun Charanpur P. O.	Palasthal	Jamtara, Jamtara, E. I. R.	Nritya Gopal Sadhu	Tin Kari Rai.	...	...	...	...
114	Sahana & Co. Satya Kinkar Sahana and Karuna Kinkar Sahana Chowkidanga P. O.	Sonachora	Sonachora, Toposi or Raniganj, E. I. R.	Nishanath Rai Chowdhuri. <i>Permit, No. 236. Authorization, No. 218, to act as manager of more than one mine.</i>	...	...	...	32	36	
115	Samla and Kendra Syndicate (See column No. 7).	Kendra	Kendra	C. C. Augier, <i>1st class service, No. 46. Authorization, No. 197, to act as manager of more than one mine.</i>	...	Martin & Co., 6 & 7, Clive Street, or Post Box No. 23, Calcutta.	...	26	44	
116		Samla	Samla		...		...	92	121	
117	Santan, Banerji (Indra Nath Banerji)	Jotejanaki	Jotejanaki, Toposi or Raniganj, E. I. R.	Pramatha Nath Hazra, <i>2nd class service, No. 110. Authorization, No. 166, to act as manager of more than one mine.</i>	...	...	...	67	45	
118	Chowkidanga P. O.	Kenda					...	8	8	
119	Sathpukuria and Asansol Collieries, Ltd. (See column No. 7).	Sathpukuria	Banbistopur, Asansol, E. I. R.	P. G. Vickers, <i>1st class competency, No. 110, in lieu of English</i>	...	Martin & Co., 6 and 7, Clive Street, or Post Box No. 23, Calcutta.	...	232	219	

120	Sibpur Coal Co., Ltd. (See column No. 7).	Pretoria	Sibpur, Jamuria, Asansol or Raniganj, E. I. R.	<i>certificate. Authorization, No. 250, to act as manager of more than one mine.</i> P. S. Keelan, 1st class service, No. 54. Authorization, No. 118, to act as manager of more than one mine.	...	Andrew, Yule & Co., 8, Clive Row, or Post Box No. 150, Calcutta.	...	318	44	
121	Singaran Coal Syndicate, Ltd. (See column No. 7).	Jotejanuki (3 mines).	Jotejanuki, Toposi, E. I. R.	Harish Chandra Mukherjee, 2nd class service, No. 154.	...	MacLeod & Co., 31, Dalhousie Square, or Post Box No. 78, Calcutta.	...	137	40	
122	Singh & Co., K. D. Kalipahari P. O.	Kalipahari	Kalipahari, Kalipahari, E. I. R.	Bam Din Lalla. Permit, No. 147.	...	....	...	48	38	
123	Singh, Nauran Kalipahari P. O.	Bhutdoba	Bhutdoba, Kalipahari, E. I. R.	Rameswar Mukherji, Permit, No. 102.	Bhovesch Chandra Ghosal.	....	...	39	28	
124	Sudamdih Coal Co., Ltd. (See column No. 7).	Sarthakpur	Sarthakpur, Toposi or Raniganj, E. I. R.	Annada Prosad Bose, 2nd class service, No. 107. Authorization, No. 263, to act as manager of more than one mine.	...	N.C. Sircar & Sons, 5, Clive Ghat Street, or Post Box No. 285, Calcutta.	...	46	36	W. Burt, Superintending Engineer.
125	Tareni Coal Co. (S. C. Bhatia.) Chora P. O.	Haripur	Haripur, Toposi or Raniganj, E. I. R.	Nilmadab Chuckerbutty, 2nd class service, No. 104.	...	....	...	71	11	
126	Toposi (Old) Coal Co. Chowkidaaga P. O.	Purandip	Purandip, Toposi or Raniganj, E. I. R.	Fanindra Nath Ghosh, 2nd class service, No. 153.	...	....	...	62	28	
Bengal-Giridih Coalfield (No. 2 Inspection Circle).										
1	Baya Coal Association (Myers, E.) Giridih P. O.	Lakharis or Bayra	Lakharis, Giridih, E. I. R.	E. Myers, 1st class service, No. 27. Authorization, No. 195, to act as manager of more than one mine.	...	.....	...	74	52	G. F. Scott, Chief Mining Engineer.
2		Mohalichua	Mohalichua, Giridih, E. I. R.		...	.....	...	83	43	
3		Sikdardih	Sikdardih, Giridih, E. I. R.		...	.....	...	20	22	
4	Bengal Coal Co., Ltd. (See column No. 7).	Kuldiha (4 mines).	Kuldiha, Giridih, E. I. R.	T. Chrystle, 1st class competency, No. 26, in lieu of English certificate. Authorization, No. 266, to act as manager of more than one mine.	...	Andrew Yule & Co., 8, Clive Row, or Post Box No. 150, Calcutta.	...	429	304	
5	Bengal Giridih Coal Co., Ltd. (See column No. 7).	Dhobidih	Dhobidih, Giridih, E. I. R.	H. E. Fox, 1st class service, No. 93.	...	.....	...	241	227	

APPENDIX V—contd.

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

Serial number.	Name 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 Mine.	Name of Manager, and No. and Class of his Certificate, Authorization or Permit.	Name of Assistant Manager, and No. and Class of his Certificate.	Name and address of Managing Agent.	Date of establishment of Special Rules.	PERSONS EMPLOYED		REMARKS.
								Below ground.	Above ground.	
Bengal-Giridih Coalfield (No. 2 Inspection Circle)—contd.										
6	Budheadih Coal Co. (Sundermull.) Gadi Shrirampur P.O., Giridih.	Budheadih (2 mines).	Budheadih, Giridih, E. I. E.	Sarbananda Lall, 2nd class service, No. 84. Authorization, No. 193, to act as manager of more than one mine.	...	.....	...	65	36	
7	East Indian Railway Co. 105, Clive Street, or Post Box No. 225, Calcutta.	Kurhurbari	Kurhurbari, Giridih, E. I. E.	A. Wright, 1st class service, No. 16. Authorization, No. 280, to act as manager of more than one mine.	...	.....	14th June 1905	1,776	1,138	Dr. W. Saise, Superintendent.
8		Serampur	Serampur, Giridih, E. I. E.	G. C. Lathbury, 1st class competency, No. 13, in lieu of English certificate. Authorization, No. 308, to act as manager of more than one mine.	...	.....		1,915	1,110	
9	Tah & Co., Bakhal Das	Kabribad (3 mines).	Kabribad, Giridih, E. I. E.	Sarat Chander Tah, 2nd class service, No. 128. Authorization, No. 66, to act as manager of more than one mine.	...	.....	...	21	6	
Bengal-Rajmahal Coalfield (No. 3 Inspection Circle).										
1	De, Girish Chandra	Domanpur	Domanpur, Rampurhat, E. I. E.	.....	...	.....	...	...	...
2		Sarabad	Sarabad, Rampurhat, E. I. E.	.....	...	.....	...	6	...	
3	De, Ramani Kanto Basikpur, Dumka P. O.	Domanpur Balki	Balki, Rampurhat, E. I. E.	Ramani Kanto De	...	.....	...	5	...	
4		Ghatchora	Asanbani, Rampurhat, E. I. E.		...	.....	...	2	...	
5	De, Soshi Bhusan Basikpur, Dumka P. O.	Bargo	Bargo, Rampurhat, E. I. E.	Soshi Bhusan De	...	.....	...	5	...	

Bengal-Daltonganj Coalfield (No. 1 Inspection Circle).										
1	Bengal Coal Co., Ltd. (See column No. 7).	Rajhara (5 mines.)	Rajhara, Daltonganj, E. I. E.	J. N. A. Devine, <i>1st class service, No. 71. Authorization, No. 170, to act as manager of more than one mine.</i>	H. G. Piggford	Andrew Yule & Co., "B, Clive Row, or Post Box No. 150, Calcutta.	...	593	399	G. F. Scott, Chief Mining Engineer.
2	Radford, W. T. Dehri-on-Sone.	Singra (8 mines.)	Singra, Daltonganj, E. I. E.	...	...	...	...	106	102	
Central Provinces (No. 3 Inspection Circle).										
1	Government of India Nagpur, G. P.	Ballarpur	Ballarpur, Warora, G. I. P.	B. Wordsworth, <i>1st class competency, No. 22, in lieu of English certificate.</i>	T. P. Yeoman, <i>1st class competency, No. 19, in lieu of English certificate.</i>	...	...	329	127	Chief Engineer, Central Provinces, Agent.
2	Great Indian Peninsula Railway Bombay P. O.	Mohpani	Mohpani, Gadarwada, G. I. P.	F. L. G. Simpson, <i>1st class competency, No. 32, in lieu of English certificate.</i>	O. T. Edwards, <i>1st class competency, No. 51, in lieu of English certificate.</i>	...	...	781	446	
3	Fench River Coal Co., Ltd. (See column No. 7).	Bhajipani	Bhajipani, Chhindwara, B. N. R.	Hugh Wilson	...	...	...	9	18	F. I. L. Ditmas, General Manager.
4	Fench (Central) Valley Coal Co., Ltd. (See column No. 7).	Craddock	Parasia, Chhindwara, B. N. R.	John Brown, <i>1st class competency, No. 108, in lieu of English certificate.</i>	...	...	...	53	16	
5	Fench Valley Coal Co., Ltd. (See column No. 7).	Barkui	Barkui, Chhindwara, B. N. R.	W. R. Lascelles	...	...	...	298	174	
6		Buteria	Buteria, Chhindwara, B. N. R.	R. Fenwick, Jr., <i>1st class competency, No. 91, in lieu of English certificate. Authorization, No. 153, to act as manager of more than one mine.</i>	Joseph Ry-lance, <i>2nd class competency, No. 1, in lieu of English certificate.</i>	Shaw, Wallace & Co., 20, Strand Road, Post Box No. 70, Calcutta.	...	5	4	
7		Chandametta	Chandametta, Chhindwara, B. N. R.	...	...	...	...	468	100	
8	Fench (Upper) Valley Coal Co., Ltd. (See column No. 7).	Jattachhapper	Jattachhapper, Chhindwara, B. N. R.	T. H. Stafford, <i>1st class competency, No. 109, in lieu of English certificate.</i>	...	...	...	25	57	Previously owned by Cooverji Bhoja.

APPENDIX —contd.

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

Serial number.	Name 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 Mine.	Name of Manager, and No. and Class of his Certificate, Authorization or Permit.	Name of Assistant Manager, and No. and Class of his Certificate.	Name and address of Manuaging Agent.	Date of establishment of Special Rules.	PERSONS EMPLOYED		REMARKS.
								Below ground.	Above ground.	
British Baluchistan (No. 2 Inspection Circle).										
1	Alibhoy Bros. Quetta P. O.	Sor Range	Sor Range, Quetta, N. W. E.	Alibhoy	...	.....	...	30	...	
2	Asgharali & Co., Abdulla Loralai P. O.	Davisapur	Thadri, Loralai	Jawandamull	...	.....	...	...	...
3	Chand Devomal Khem Quetta P. O.	Sor Range	Sor Range, Quetta, N. W. E.	.....	...	.....	...	10	...	
4	Essaji & Sons Quetta P. O.	Sor Range	Sor Range, Quetta, N. W. E.	...	...	.....	...	15	2	
5	} Forozahah, Shiwakshaw Quetta P. O.	Digari	Digari, Quetta, N. W. E.	...	...	.....	...	...	...
6		Sor Range	Sor Range, Quetta, N. W. E.	Saleh	...	.....	...	...	...
7	Hossein Ali & Co. Quetta P. O.	Sor Range	Sor Range, Quetta, N. W. E.	Hossein Ali	...	.....	...	30	6	
8	} Khan, Bahawal Quetta P. O.	Bhor	Kalat dist.	...	} Abdul Khan	.....	...	9	8	
9		Digari	Digari, Quetta, N. W. E.	...		.....	...	12	2	
10	North-Western Railway Lahore P. O.	Khost	Khost, Khost, N. W. E.	A. Mort, 1st class competency, No. 48, in lieu of English certificate.	...	.....	...	...	...
11	} Patel, K. B. Burjorji D. Quetta P. O.	Mach	Mach, Bolan, N. W. E.	B. D. Patel	...	.....	...	90	19	
12		Sor Range	Sor Range, Quetta, N. W. E.	...	...	.....	...	34	4	
13	} Sorabji & Co. Quetta P. O.	Digari	Digari, Quetta, N. W. E.	Mano	...	.....	...	10	8	
14		Leze	Digari, Quetta, N. W. E.	...	...	.....	...	...	...
15		Sor Range	Sor Range, Quetta, N. W. E.	...	...	.....	...	8	12	
Burma (No. 1 Inspection Circle).										
1	Burma Mines Development and Agency, Ltd. West Most Road, Mandalay P. O.	Thitchauk	Kalewa, Upper Chindwin	E. Kirkpatrick	...	.....	...	...	...

Eastern Bengal and Assam (No. 1 Inspection Circle).

1	Assam Railways and Trading Co., Ltd. Margherita P. O.	Ledo Valley (East)		..	..	..	159	85	Figures shown with that of East Ledo Valley Mine. G. E. Harris, General Manager. P. O. Ward, Agent.	
2		Ledo Valley (Upper)		G. Bull, 1st class service, No. 83. Authorization, No. 199, to act as manager of more than one mine.	..	..				..
3		Ledo Valley (West)		..	..	..				..
4		Tirap		..	..	..	85	5		
5		Namdang	Makum, Margherita, D. S. E.	W. Parsons, 1st class competency, No. 89, in lieu of English certificate. Authorization, No. 305, to act as manager of more than one mine.	..	..	..	257		171
6		Tikak		T. Rushton, 1st class service, No. 84. Authorization, No. 146, to act as manager of more than one mine.	..	..	..	307		206
7	Maolong Coal Co.	Maolong	Ishamati, Sylhet	..	..	Andrew Yule & Co., 8, Clive Row, or Post Box No. 150, Calcutta.	..	..

Panjab (No. 2 Inspection Circle).

1	Dass, Bhagwan and Ram Kalabagh P. O.	Chhaja	Ara, Jhelum	Fakir Chand Formi, No. 159.	..	..	..	7	7		
2		Katha	Katha, Dandot, N. W. R.	Radha Kishan	..	Radha Kishan	..	..	..		
3										Samowala
4										Tajuwala	Tajuwala
5		Thakkar Kot	..	..	..	..	..	150	150
6		Dass, Ganesh Gujrat P. O.	Dhar	Manihala, Jhelum	Dost Ali Shah	11	8				

APPENDIX V—contd.

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

Serial number.	Name 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 Mine.	Name of Manager, and No. and Class of his Certificate, Authorization or Permit.	Name of Assistant Manager, and No. and Class of his Certificate.	Name and address of Managing Agent.	Date of establishment of Special Rules.	PERSONS EMPLOYED		REMARKS.
								Below ground.	Above ground.	
Punjab (No. 2 Inspection Circle)—contd.										
7	Dass, Ishar Fird Dadan Khan P. O.	Dharahi	Mattan Khurd, Jhelum	...	...	...	...	9		
8		Nanak Chand	Bakh Nurpur, Jhelum	...	...	...	...	9		
9		Rodianwali	Sidhandi, Jhelum	Golam Ali Permit, No. 208.	...	...	...	6		
10	Dass, Thakur and Ramji Dandot P. O.	Gamraia	Estoocha, Jhelum	Lakhmi Dass, 2nd class service, No. 149.	...	...	...	7		
11	Lal & Co., Krishna Jhelum P. O.	Kadi Mithawali	Kadi Mithawali, Jhelum	Mahomed Hussain, 2nd class service, No. 150. Authorisation, No. 228, to act as manager of more than one mine.	...	...	...	6		
12		Kotianwali	—Jhelum		...	...	...	17	2	
13		Natanwali	Natanwali, Jhelum		...	...	...	6		
14	Nath, Bhola Dalwal P. O.	Chatterwal	Dalwal, Jhelum	Bhola Nath Permit, No. 237.	...	...	...	8		
15		Dherewali	Dalwal, Jhelum		...	...	...	8		
16		Wahgroowali	—Jhelum		...	...	...	8		
17	North-Western Railway Lahore P. O.	Dandot	Dandot, Khewra, N. W. E.	D. Thomson, 1st class competency, No. 50, in lieu of English cer- tificate.	...	...	...	542	360	
18	Panjab Coal Co. (Lakhmi and Deva Singh) Abbottabad P. O.	Chiti Dand	Mukrach, vid Golpur, N.W. E.	Kirpa Ram, 2nd class service, No. 33. Authorisation, No. 270, to act as manager of more than one mine.	...	...	...	163	178	E. L. Hope, Superin- tendent.
19		Chaanwala	Nila, Jhelum	Amir Ali, 2nd class service, No. 137. Au- thorisation, No. 269, to act as manager of more than one mine.	...	...	...	...	...

20	Ram & Sons, R. S. Rooha, Abbottabad P. O.	Chota Tajuwala	Tajuwala	Utiam Singh	...	...	...	8	8
21		Narianwala	Narianwala	Faquir Chand	...	...	...	50	46
22	Singh & Co., R. B. Anup Lahore P. O.	Makarwal	Mianwali	S. K. Taylor	Khudabuz	Lakshman Singh	...	26	30
23	Singh, Malik Mohan Rawal Pindi P. O.	Nalli	Nalli, Shabpur	Jograj Permit, No. 195.	...	...	...	8	...
24	Singh, Soojan Hidali P. O., Shabpur.	Nalli	Nalli, Shabpur	Mull Singh Permit, No. 212.	...	...	...	...	...

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

Name of Mine.	Name of Owner or Company.	Serial No. in list.
Bengal-Jharia Coalfield (No. 1 Inspection Circle).		
Alkusa	Kanga & Co.	122
	Baniganj Coal Association	199
Amlabad	Chota Nagpur, Maharaja Babadur	59
	Angarpatra Coal Co., Ltd.	11
Angarpatra	Angarpatra Colliery Co.	14
	National Coal Co., Ltd.	175
	Trigunait Bros. Coal Co.	242
	Union Coal Co., Ltd.	249
Angarpatra (North)	North Angarpatra Coal Co. (G. P. Hazra and others)	16
Asakuti	North-West Jharia Coal Syndicate	179
	Royal Coal Co., Ltd.	207
Bagdiggi	Bagdiggi-Kujama Collieries, Ltd.	21
	Smith, C. J.	222
Bahiardih	Mahato, Baidya Nath	155
Bamongarh	Bamaangarah Coal Co., Ltd.	23
Bansdeopur	Bansdeopur Coal Co.	27
Bansjora	Bansjora Coal Co.	28
Banstakola	New Beerbham Coal Co., Ltd.	34
	Das, Ram	70
Barahmasia	Gouri Shankar Jagannath & Co.	99
	Kanji Karsan	124
	Polite Barahmasia Coal Co.	192
Barwabera	New Barwabera Coal Co.	33
Belanjabad	Lall, Daroga	150
Benahir	Standard Coal Co., Ltd.	225
Bhaga	Jharia Colliery Co., Ltd.	112
Bhagaband	Borrea Coal Co., Ltd.	48
Bhalgora	Bhalgora Coal Co., Ltd.	40
Bhatdih	Bengal Bhatdih Coal Co., Ltd.	35
Bhatmoura	A. B. C. Coal Co.	1
Bhowra	East Indian Coal Co., Ltd.	82
Bhugputdih	Bengal Nagpur Coal Co., Ltd.	39
Bhulanbarari	Bhulanbarari Coal Co., Ltd.	44
	East Indian Coal Co., Ltd.	79
Rhuputdih (South)	Katras Bhuputdih Coal Co.	135
Bhutgoria	Aldih Coal Co., Ltd.	10
Bilbera	Bilbera Coal Co., Ltd.	45
Bodora	Vithalram Coal Co.	251

APPENDIX V—contd.

Name of Mine.	Name of Owner or Company.	Serial No. in list.
Bengal-Jharia Coalfield (No. 1 Inspection Circle)—contd.		
Borora	Chatterji, Singh & Co.	58
	Gorain, Gopi Nath	96
Brahmanbarari	East Indian Coal Co., Ltd.	79
Braroshara	Jharia-Katrah Coal Co.	114
Budruchak	Budruchak Coal Mining Co., Ltd.	51
Bulliar	Bulliar Coal Co.	52
	Chuni Lal Coal Co.	68
	East Indian Coal Co., Ltd.	80
	Khas Jharia and Bulliar Coal Concern	138
Burragarh	Burragarh Coal Co., Ltd.	53
	Hariladh Coal Co., Ltd.	101
Busserya	Busserya Coal Co., Ltd.	54
Chanda	Khandesh, Berar and Gujrat Coal Concern	131
Chandore	Banerji & Co., Harish Chandra	24
	Chandore Coal Co. (B. Roy and others)	55
	National Coal Co. (R. K. Chatteraj)	174
	Pain, B. L.	162
	Trigunait, Brindaban	238
	Trigunait, Brojo Bhusan	239
Chandore (New)	Trigunait, Mukteswar and Bhubaneswar	243
	Trigunait, Sudarsan	246
	Trigunait, Brojo Bhusan	240
Chandore (North)	Trigunait, Sudarsan	247
Chandrabad	Agarwala, Ramjus	8
Chaenalla	Lodna Colliery Co., Ltd.	161
Choitodih	Lutohipur Coal Co., Ltd.	154
Dhansar	Boga & Co.	47
	Kundu & Co.	144
Dharmaband	Dharmaband Coal Co.	78
	Ghosh, Akshaya Kumar	90
Dheriajoba	Dheriajoba Coal Co.	72
	Jharia Coal Syndicate, Ltd.	111
Dhobakhara	Choudhuri, Satya Taran	60
Dobari	Bagchi, B. N.	20
	Dobari Coal Co. (S. B. Banerji and B. K. Sahana)	74
	Kor, Sri Hari	142
Domrakhas	Sheik Brothers & Co.	211
Durgapur	Premji and Devahi Haffir	194
Ekra Khas	Nandi, Maharaja Manindra Chandra	172
Emampahari	Jharia Coal Syndicate	110
Ena	North-West Coal Co., Ltd.	178

APPENDIX V—contd.

Name of Mine.	Name of Owner or Company.	Serial No. in list.
Bengal-Jharia Coalfield (No. 1 Inspection Circle)—contd.		
Futtehpur	Agarwala, Ramjus	9
	Dosa & Co., G. K.	76
	Khas Jharia and Bullari Coal Concern	195
Ganhudih	Premji and Devshi Hamir	195
	Dobari Coal Co. (S. B. Banerji and R. K. Sahana)	75
Gansadih	Roy, Bireswar	203
Ganzlatan	New Manbhum Coal Co., Ld.	156
	Howji, Tribhuban Dass	103
Gararia	Ramjidas Bechardas	197
	Roy, Moheswar and Srikontho	206
	Sanker, T. R.	208
Gobindpur	Gobindpur Coal Co., Ld.	91
Gobindpur (South)	South Gobindpur Collieries, Ld.	92
Godhur	Bhattacharji, Ram Nath	42
	Raha and Son, Sasi Bhusan	196
Godhur (Central)	Azam, Masihal	19
Godhur (West)	Agarwala, Lachmi Narayan	7
Golnukdih	East Jharia Coal Co., Ld.	113
Gopalichak	Gopalichak Coal Co., Ld.	94
Gopalichak (West)		95
Hariladih	Equitable Coal Co., Ld.	86
	Standard Coal Co., Ld.	226
Harinachak	Jharia Coal Association	109
Huntodih	Huntodih Coal Co., Ld.	104
Isabella	Isabella Coal Co.	107
Jairamdih	Gorain, N. L. and others	97
Jamadoba	Indian Collieries Syndicate, Ld.	106
Jamna	A. B. C. Coal Co.	2
Jharia (East)	East Jharia Coal Co., Ld.	113
Jharia Khas	Standard Coal Co., Ld.	227
Jinagara	Deoji Goa & Co.	71
	East Barari Coal Co. (Trioumji Jiban Dass)	31
	Gopaldas Trikamji Jivandas	93
	G. P. C. & Co. (Gova Petha)	100
Jogta	Jinagarah Coal Co., Ld.	116
	Agabeg Brothers	8
Joyrampur	B. R. & N. Coal Co.	50
	Joyrampur Coal Co.	118
	Joyrampur Coal Concern (J. K. Mukherji)	119
	Khengarji Triku & Co.	133
	Khimji Moorji & Co.	139
	M. V. A. Coal Concern (M. V. Apoor & Co.)	171

APPENDIX V—contd.

Name of Mine.	Name of Owner or Company.	Serial No. in List.
Bengal-Jharia Coalfield (No. 1 Inspection Circle)—contd.		
Joyrampur (Lower)	Ghela Panchan & Co.	88
Kally Than Surataur	Seal, K. B.	209
Kandra	Mukherji & Co., K. P.	168
Kandra (Upper)	South Jharia Coal Co.	115
Kankani	Eastern Coal Co., Ltd.	83
Kantapahari	Angarpatra Coal Co., Ltd.	12
	Angarpatra Colliery Co.	15
	Mondal, Ajodhyaram	163
	National Coal Co., Ltd.	176
	South Angarpatra Coal Co. (B. K. Banerji & Son)	17
	Trigunait Mukteswar & Bhubaneswar	244
Kantapahari (West)	Central Bengal Coal Co., Ltd.	86
Katras	Nowagarh Coal Co., Ltd.	180
Kendwadih	C. M. & Co. (Chimanlal Mangaldas & Keshan Lal Parekh)	65
	East Indian Coal Co., Ltd.	81
	Gorain, Ram Ranu	98
	Hariladhi Coal Co., Ltd.	102
	Kendwadih Coal Co. (Gejadhar Marwari and others)	127
Kesalpur	Bose, J. N.	49
	Koondoo, Sunda Charan	141
Kesalpur (Imperial)	Singh, Bir	214
Kesalpur (New)	Banerji, Bepin Behari	25
Kessurgurah	Kessurgurah Coal Co., Ltd.	128
Khaira	East Indian Coal Co., Ltd.	80
Khalsa	Singh & Co., Atma	213
Kharkabad	Kharkabad Coal Syndicate	182
	Agarwala, Jagannath Ramjus	5
	Khas Jharia and Buniari Coal Concern	184
Khas Jharia	Khas Jharia Colliery Co.	137
	Agarwala, Jagannath Ramjus	6
Khas Jharia (New)	Ghosal, Chatterji & Co.	89
Khas Paredih	Kanga & Co.	123
Kiska	C. M. & Co. (Chimanlal Mangaldas and Keshan Lal Parekh)	66
Koradhi	Das, L. H.	68
	Khan Brothers	180
Kujama	Nanji, Khanji and Sanji	173
	North Kujama Coal Co.	143
	Bagdiggi-Kujama Collieries, Ltd.	22
Kujama (South)	Central Kurkend Coal Co., Ltd.	145
	Khaira Coal Syndicate, Ltd.	129
	Kurkend Coal Co. (B. Roy and others)	146
Kurkend	Motiram Coal Co.	184

APPENDIX V—*contd.*

Name of Mine.	Name of Owner or Company.	Serial No. in list.
Bengal-Jharia Coalfield (No. 1 Inspection Circle)—<i>contd.</i>		
Kurkend	Sircar, R. B.	221
	Sudamdih Coal Co., Ltd.	228
Kurkend (East)	Marine Coal Co., Ltd.	159
Kustore	Raniganj Coal Association, Ltd.	200 & 201
	K. M. Selected Coal Co.	140
Kusunda	Kusunda and Nayadi Collieries, Ltd.	147
	New Kusunda Coal Co., Ltd.	148
	Patel & Co.	188
Kusunda (North East)	Walj, Joyram & Mulji	253
Lakorka	Lakorka Coal Co., Ltd.	149
Lakshmi	Commercial Syndicate	67
Lodna	Lodna Colliery Co., Ltd.	152
	North Barakar Coal Co.	30
Loyabad	Barakar Coal Co., Ltd.	29
Lutipahari	Choudhuri, Satya Taran	61
Medhuband	Jumoni Coal Co., Ltd.	120
	Lodna Colliery Co., Ltd.	153
Mandra	Mandra Coal Co.	157
	M. B. Co.	158
	Singh, Jit Narayan and Mit Narayan	217
Mandra Khas	Singh, Gour Mohan	216
Matialla	Srimani, J. N.	224
Moeshapur	Moeshapur Coal Co., Ltd.	162
Mucheridih	Mucheridih Coal Co., Ltd.	166
Mudidih	Reliance Coal Co., Ltd.	202
	Jetha Gobardhan	108
Muraidih	Mowji, Ambari	165
	National North Barahmasia Coal Co.	177
	Polite Barahmasia Coal Co.	193
Muralidih	Bengal Coal Co., Ltd.	37
Muttigurra	Muttigurra Coal Co., Ltd.	170
Niohitpur	Parasea Collieries, Ltd.	186
Noomoodih	Bengal Iron and Steel Co., Ltd.	38
Nudkharuki	Nudkharuki Coal Co.	181
Nudkharuki (East)	Auckland Coal Co., Ltd.	18
Pandakanali	Pandakanali Coal Co., Ltd.	183
	Bhattacharji, U. C.	43
Pandedih	Choudhuri, Satya Taran	62
	Chutta Lal Kutchi	64
	Kabiraj, R. C.	121
	Katras Oriental Coal Syndicate	126
	Marwari, Jaharmal and Ram Protab	161

APPENDIX V—*contd.*

Name of Mine.	Name of Owner or Company.	Serial No. in list.
Bengal-Jharia Coalfield (No. 1 Inspection Circle)—<i>contd.</i>		
Pandedih	Mukherji & Co., S. K.	169
	Pandedih Coal Syndicate (Bajrangbali Singh & others)	184
	Singh, Jorabar	218
	Trigunait, Bhubaneswar	237
Pandeybera	Tringunait, Mukteswar and Bhubaneswar	245
	Das, L. H.	69
Parbad	Pandeybera Colliery Co.	185
	East Barari Coal Co. (Tricumji Jiban Das)	32
Parelgaria	Parelgaria Coal Co.	187
Pathardih	Indian Coal Association	105
Phularibad	Khas Jharia Coal Co.	136
Phularitand	Phularitand Coal Co., Ld.	190
	Dumra Coal Co.	77
	Ghansham Das Coal Co.	87
	Marwari, Bhagwandas	160
Pinalgoria	Yurma Coal Co.	252
	Pipratand Coal Co., Ld.	191
Pipratand	Pipratand Coal Co., Ld.	191
Pootki	Eastern Coal Co., Ld.	84
Ramgarh	John & Armatoon	117
	Angarpatra Coal Co., Ld.	18
Ramkanali	Biswas, P. K.	46
	Chandra, Girish Chandra	56
	Dutt, B. L.	78
	Roy, Bireswar	204
	Trigunait, Brojo Bhusan	241
Ranidih	Ranidih Coal Co. (S. B. Chatterji)	195
Sendra	Sendra Coal Co., Ld.	210
Sijua	Sijua Coal Co., Ld.	212
Simlabahal	Bhalgora Coal Co., Ld.	41
Sinidih	Sinidih Coal Co., Ld.	219
	Sinidih Coal Concern	220
Sonalabad	Agarwala, Ghansham Das	4
Sowardih	Sowardih Coal Co. (N. L. Gorain & others)	228
Sudamdih	Empire Coal Co., Ld.	85
	Sudamdih Coal Co., Ld.	229
Sudriadih	Sudriadih Coal Co., Ld.	230
Surataur	Roy, Bireswar	205
Surataur (New)	Banerji's Coal Concern, J. L.	26
Sutikdih	Sutikdih Coal Co., Ld.	231
Tandabari	Tandabari Coal Syndicate	232
Tasra	Phoenix Coal Co., Ld.	189
Tentulia	Tentulia Colliery Co.	233

APPENDIX V—contd.

Name of Mine.	Name of Owner or Company.	Serial No. in list.
Bengal-Jharla Coalfield (No. 1 Inspection Circle)—conold.		
Tettulia	Chandra, Haresmal Ram	57
	Mukherji & Co., K. L.	167
Tetturia	New Tetturia Coal Co., Ld.	234
	West Tetturia Collieries, Ld.	235
Tiera	Singh, Durga Persad	215
Titilmuri	Titilmuri Coal Co., Ld.	236
Tundu	Tundu Coal Co.	248
Verakotah	Verakotah Syndicate, Ld.	250
Western India	Western India Coal Trading Co.	254
Bengal-Baniganj Coalfield (No. 2 Inspection Circle).		
Agoo	East Indian Coal Co., Ld.	82
Aldih	Aldih Coal Co., Ld.	5
Alipur	Barakar Coal Co., Ld.	14
Badjna	Badjna Coal Co., Ld.	7
Balkuria	Sutikdih Coal Co.	131
Bamundiha	Damuda Coal Co., Ld.	51
	Dutt, Prasanno Cqomar	61
	Shampur Coal Co., Ld.	120
Bandarohoo	Friends Coal Co. (I. B. Mukherji & J. Roy)	69
Begunia	Dutt Kabra Coal Co.	59
	Gorain, Nanda Lall & others	75
	Nandi, Mahareja Manindra Chandra	98
Begunia Khas	Nandi, Mahareja Manindra Chandra	99
Bejdih	MacNeill & Co.	85
Belrui	New Beerbhun Coal Co., Ld.	17
Bhangaband Banga Lakshmi	Chakravarti, Amrita Krishna	41
Binadikatta	Sircar, Bidhu Bhusun	125
Birsingpur	Annapurna Coal Co. (R. B. Maji and L. N. Marwari)	6
	Birsingpur Coal Co. (A. C. Banerji)	32
	Good Hope Coal Co. (K. N. Roy and others)	74
	Joydurga Colliery Co. (M. Chugdar and others)	77
	Roy, Singh & Co.	113
Bonjamari	Bonjamari Coal Co.	33
Borachak	Mukherji, Umesh Chandra	97
Borrea	New Beerbhun Coal Co., Ld.	18
Brindabonpur	Brindabonpur Coal Co. (H. Goswamy and K. Marwari)	37
Brindabonpur (Medel)	Tarofdar & Co., D. N.	132
Burra Dhemoo	Burra Dhemoo Coal Co., Ld.	39
	Damuda Coal Co., Ld.	52
Champtoria	B. L. R. Marwari	89
Chanoh	Bengal Coal Co., Ld.	19

APPENDIX V—contd.

Name of Mine.	Name of Owner or Company.	Serial No. in list.
Bengal-Raniganj Coalfield (No. 2 Inspection Circle)—contd.		
Charnook	Charnook Collieries, Ltd.	42
Chattadanga	Dutt Kabra Coal Co.	60
Chinchuria	Baraboni Coal Concern, Ltd.	9
	Chatterji, Ram Bandhu	45
Chota Dhemu	Chota Dhemu Coal Co.	49
	Mukherji, Baman Dass	95
Chowraai	Equitable Coal Co., Ltd.	65
Dhadkadi	Mukherji, Tinkari	96
Dhundabad	New Manbhumi Coal Co., Ltd.	87
Dishargarh	Equitable Coal Co., Ltd.	66
Dumarkunda	Bengal Coal Co., Ltd.	20
	Ahmed Yusuf	4
	Bhattacharji & Co., U. C.	31
	Burn & Co., Ltd.	38
	Chatterji, Kanailal & Mitter, G. C.	44
	Chhaganlal Nagar	47
	Daw, U. N., and others }	55
	Dey, Jugal Kishore	56
	Dutt, B. L., and Pal, K. C.	57
Egaroor	Eastern Borari Coal Association, Ltd.	34
	Egaroor Coal Concern (G. Singh and others)	64
	Marwari, J. K.	90
	New Chirkunda Coal Co.	48
	Roy, Bireswar	110
	Sett & Co., D. K.	118
	Sett & Co., R. K., and others	119
	Suitable Coal Co.	180
Egaroor Kalitola	Central India Coal Co.	40
Egaroor (North)	Mahabhabya and Laik Coal Co.	86
Fatka or Pandedih	Fatka Coal Co. (M. L. Laik and others)	67
Gangutia	Bengal-Nagpur Coal Co., Ltd.	29
Garphalbari	Barakar Brick and Tile Syndicate	12
Gopalpur	Damuda Coal Co., Ltd.	53
Gopalpur	New Manbhumi Coal Co., Ltd.	88
Gopinathpur	Barakar Brick and Tile Syndicate	13
Hatbari	Eastern Borari Coal Association, Ltd.	85
Hatgarooie	Lutohipur Coal Co., Ltd.	62
	Laik, M. L.	79
Hatnol	Bengal Coal Co., Ltd.	21
Jograd	South Laikdih Coal Concern	80
Joyramohak	Oriental Coal Co., Ltd.	101

APPENDIX V—contd.

Name of Mine.	Name of Owner or Company.	Serial No. in list.
Bengal-Raniganj Coalfield (No. 2 Inspection Circle)—contd.		
Kalimati	Lalla, Luchman Prosad	81
	Roy, Bonowari Lal	111
	Roy, Rohini Kumar	112
Kapasara	Abdul Karim & Brothers	1, 2
	Adam Joosah & Co.	3
	Bengal Oriental Coal Co.	30
	Jafar Yusuf	76
	Kalyaneswari Coal Co.	78
Kendwa	Umer Aziz	133
	Bengal Iron and Steel Co., Ltd.	27
Ketherdih	Ghose, Kunja Behari	72
Khoirabad	Ganguly, Sircar, Roy & Co.	71
Khudia	Chatterji, Shashi Bhusan	46
Khudka	Sircar and Sons, N. C.	124
Kumardubi	Barakar Coal Co., Ltd.	15
Kusumkanali	Royal Bengal Coal Co.	114
Laikdih	Bengal Coal Co., Ltd.	22
Lutohipur	Damuda Coal Co., Ltd.	54
	Lutohipur Coal Co., Ltd.	83
Mahanpur	Misra, Shama Charan	92
Marich Kotta	Sudhi Coal Co., Ltd.	127
Mouthdih	Chatterji Colliery Co. (A. C. Chatterji)	43
	Bengal Imperial Coal Co.	26
	Dutt, Jadab Chandra	58
	Mugma Coal Association (H. M. Banerji)	93
Mugma	Mugma Coal Co.	94
	West Barakar Coal Co.	16
	Sitarampur Coal Co., Ltd.	126
Narsamuda	Nodiha Coal Co., Ltd.	100
Nodiha	Baraboni Coal Concern, Ltd.	10
	Damra Coal Co., Ltd.	50
Nuni	Misra, Mangobinda and Roy, Rama Nath	91
Pahargora	Roy, A. C., and others	108
Pahargora (New)	Oriental Coal Co., Ltd.	102
	Roy, Ashu Tosh	109
Palasahdih	Ghose, Kunja Behari	73
Palasia	Lutohipur Coal Co., Ltd.	84
Panohgatchia	Fatka Coal Co. (M. L. Lait and others)	67
Pandedih or Fatka	Patlabari Coal Syndicate (Mulji Jetha and Chuni Lal)	106
Patlabari	North Fatka Coal Syndicate	68
Pitakiari	Sudhi Coal Co., Ltd.	128
Raghunathbatty		

APPENDIX V—contd.

Name of Mine.	Name of Owner or Company.	Serial No. in list.
Bengal-Raniganj Coalfield (No. 2 Inspection Circle)—contd.		
Rajpura	Pal Rajmohan and Chowdhuri, S. K.	103
	Patel, Lallu Bhai	105
Ramnagar	Bengal Iron and Steel Co., Ltd.	28
Sabanpur	Banerji, Bidhu Sekhar	8
Salanpur	Borrea Coal Co., Ltd.	86
Saltore	Saltore Coal Co., Ltd.	115
Sanctoria	Bengal Coal Co., Ltd.	23
Sangamahal	Seal, Aghore Nath	116
	Shungamahal Collieries, Ltd.	123
Satais	Roghnuathbatti Syndicate	107
Seetlah	Seetlah Coal Co., Ltd.	117
Shampur	Shampur Coal Co., Ltd.	121
Sindri	Parekh, Keshab Lall	104
Sitalpur	Bengal Coal Co., Ltd.	24
Sodepur		25
Sudih	Baraboni Coal Concern, Ltd.	11
Sudhi	Ganguly, Janendra Nath	70
	Sudhi Coal Co., Ltd.	129
Sundarchak	Shampur Coal Co., Ltd.	122
Topatand	East Indian Coal Co., Ltd.	68
Bengal-Raniganj Coalfield (No. 3 Inspection Circle).		
Akhalpur	Hariladh Coal Co., Ltd.	60
Arrong	Miller, J. A.	90
Asansol	Ghusik and Muslia Collieries, Ltd.	54
Babisole	Bilbera Coal Co., Ltd.	34
Bamanband	Bamanband Coal Co., Ltd.	6
Banakuri	South Kenda Coal Co.	67
Banali	Phularitand Coal Co., Ltd.	105
Banbistopur	Banbistopur Coal Association	8
Bankola	Eastern Coal Co., Ltd.	49
Banksimulla	Bengal Coal Co., Ltd.	27
	Baraboni Coal Concern, Ltd.	15
Baraboni	Bilbera Coal Co., Ltd.	35
	Ghusik and Muslia Collieries, Ltd.	55
	New Beerbhun Coal Co., Ltd.	26
Baraboni (New)	New Baraboni Coal Co. (K. B. Pal Chowdhuri and others)	18
Baraboni (South)	South Baraboni Coal Co. (K. B. Pal Chowdhuri)	19
Basantipur	Basanti Oskdene Coal Co.	22
Bhuskajuri	Bhuskajuri Coal Co., Ltd.	33
	Bhagirathi Coal Co.	31
Bhutdoba	Singh, Nauran	123

APPENDIX V—*contd.*

Name of Mine.	Name of Owner or Company.	Serial No. in list.
Bengal-Raniganj Coalfield (No. 3 Inspection Circle)—<i>contd.</i>		
Bowlah	Ondal Coal Co., Ltd.	101
Bunbeha	Marwari, Jagannath	88
Charanpur	Apcar & Co.	2
	Reliance Coal Co., Ltd.	110
Chattapathar	Bamundiha Coal Concern	7
Chelode	Chelode Coal Co., Ltd.	42
Chinchuria	New Beerbhun Coal Co., Ltd.	24
Chora	Ondal Coal Co., Ltd.	102
Damra (New)	Phularitand Coal Co., Ltd.	106
Damra (Old)	Damra Coal Co., Ltd.	44
Damudapur	Bengal Coal Co., Ltd.	29
Dhadka	Dhadka Coal Co.	47
Dobalia	Bankura Coal Co. (H. H. Banerji and R. C. Mukherji)	13
Dobrana	Marwari, Jagannath	84
Dobrana (New)	New Dobrana Coal Co.	48
Faridpur	Bengal Coal Co., Ltd.	28
	Faridpur Coal Co. (S. B. Mukherji)	53
	Poniatl Coal Concern (U. C. Roy and A. C. Ghosh)	107
Ghusik	Baliram Coal Co.	4
	Ghusik and Muslia Collieries, Ltd.	56
	Ghusik Coal Co. (H. C. Ghosh)	58
	Mukherji, Romesh Chandra	95
Ghusik (New)	Mukherji, Baman Dass	94
Ghusik (North)	Marwari, Fulchand	80
	Marwari, Harmuk	82
Ghusik (West)	Banerji, Harihar	10
	Baraboni Coal Concern, Ltd.	16
Haripur	Bhattacharji, Shosi Bhusan	32
	Laik, Mukundo Lall	71
	Tareni Coal Co. (S. C. Bhatta)	125
Jairamdanga	New Beerbhun Coal Co., Ltd.	25
Jambad	Lodna Coal Co.	73
Jamehari	Malia, D. and R.	74
Jamgram	Barakar Coal Co., Ltd.	20
Jamunakanali	Banerji, Kashi Bilash	11
Jamuria	Equitable Coal Co., Ltd.	51
Joba or Jotemotuk	Eastern Coal Co., Ltd.	50
Jotejanaki	Chatterji, Pran Kishen	41
	Santan, Banerji (I. N. Banerji)	117
	Singaran Coal Syndicate, Ltd.	21
Jotemotuk or Joba	Eastern Coal Co., Ltd.	50

APPENDIX V—contd.

Name of Mine.	Name of Owner or Company.	Serial No. in list.
Bengal-Raniganj Coalfield (No. 3 Inspection Circle)—contd.		
Jubilee	Meyer Coal Co.	86
	Banerji & Co., J. L.	9
Kajora	Kajora Coal Co.	83
	Roy, Dutt & Co.	111
Kalikapur	Banerji, Raghu Nath and others	12
Kalipahari	Singh and Co., K. D.	122
Kanchka	Damra Coal Co., Ltd.	45
Kantapahari	Barakar Coal Co., Ltd.	21
	Central Kenda Coal Co. (J. A. Miller)	65
	Marwari, Fulchand	79
Kenda	New Kenda Coal Co., Ltd.	66
	Santan, Banerji (Indra Nath Banerji)	118
Kendra	Samla and Kendra Syndicate	115
	G. M. Agreeable Coal Co.	59
Kessabganj	Marwari, Ganapat Ram	81
	Marwari, Ram Bilas	85
Koolustore	Koolustore Coal Co., Ltd.	68
Kuordih	Kuordih Coal Co., Ltd.	69
	East Kuordih Coal Co., Ltd.	70
Kuordih (East)	Lakshmganj Coal Co., Ltd.	72
Lakshmganj	Imperial Coal Co., Ltd.	61
Madhubpur	Mangalpur Coal Concern	76
Mangalpur	Manjhara Colliery Co.	77
Manjhara	Minto Coal Co., Ltd.	91, 92
Minto	Bagohi, Parna Chandra	8
	Burdwan Coal Co.	87
Mosila	Cooverji Bhoja	43
	New Burdwan Coal Co.	85
	Basanti Oakdens Coal Co.	23
Mouzra	Mundulpur Coal Co., Ltd.	96
Mundulpur	Ghusik and Muslia Collieries, Ltd.	57
Muslia	Adjai Coal Co., Ltd.	1
	Minto Coal Co., Ltd.	91, 92
Nandi	Nandi Coal Association	97
	British India Coal Co., Ltd.	86
	Damra Coal Co., Ltd.	46
Napara	Nandi, Mahavaja Manindra Chandra	98
	Meyer Coal Co.	87
Nehinta	Niga Valley Coal Co.	100
Niga Valley	Baraboni Coal Concern, Ltd.	17
Nimcha	Meyer Coal Co.	89
	Meyer Coal Co.	88
Nuniapool	Meyer Coal Co.	

APPENDIX V—contd.

Name of Mine.	Name of Owner or Company.	Serial No. in list.
Bengal-Raniganj Coalfield (No. 3 Inspection Circle)—contd.		
Palasthal	Sadhu, Kishori Mohun	113
Parasea	Parasea Collieries, Ltd.	104
Poraskole	Royal Coal Co., Ltd.	112
Pottery	Burn & Co.	89
Pretoria	Sibpur Coal Co., Ltd.	120
Purandip	Old Toposi Coal Co.	126
Ranadanga	Provincial Coal Co., Ltd.	108
Raghunathchak	Raghunathchak Coal Co.	109
Raniganj	Bengal Coal Co., Ltd.	30
Samla	Samla and Kendra Syndicate	116
Sarthakpur	Sudamdih Coal Co., Ltd.	124
Satpukuria	Equitable Coal Co., Ltd.	52
	Satpukuria and Asansol Collieries, Ltd.	119
Searsol	Maha, B.	75
Shekpur	Minto Coal Co., Ltd.	92
Sibpur	Katras-Jharra Coal Co., Ltd.	63
	Minto Coal Co., Ltd.	98
Sitalpur	Martin, J. C.	78
Sonachora	Sahana & Co.	114
Srikistapur	Baliram Coal Co.	5
Sultanpur	Kaviraj, Ram Lall	64
Sunkerpur	Burn & Co.	40
Sunpur	Öndal Coal Co., Ltd.	103
Toposi	Banerah Coal Co., Ltd.	14
Vanora Khas	Nandi, Maharaja Manindra Chandra	99
Bengal-Giridih Coalfield (No. 2 Inspection Circle).		
Bayra or Lakharia	Bayra Coal Association	1
Budheadih	Budheadih Coal Co. (Sundermull)	6
Dhobidih	Pengal Giridih Coal Co., Ltd.	5
Kabribad	Tah & Co., Rakhal Das	9
Kuldiha	Bengal Coal Co., Ltd.	4
Kurhurbari	East Indian Railway Co.	7
Lakharia or Bayra		
Mohalichua	Bayra Coal Association	1
Serampur	East Indian Railway Co.	2
Sikdardih	Bayra Coal Association	3
Bengal-Rajmahal Coalfield (No. 3 Inspection Circle).		
Bargo	De, Soohi Bhusan	5
Domanpur	De, Girish Chandra	7
Domanpur Balki		
Ghatchora	De, Ramani Kanto	3
rabad	De, Girish Chandra	4
		2

APPENDIX V—*contd.*

Name of Mine.	Name of Owner or Company.	Serial No. in list.
Bengal-Daltonganj Coalfield (No. 1 Inspection Circle).		
Rajhara	Bengal Coal Co., Ltd.	1
Singra	Radford, W. T.	2
Central Provinces (No. 3 Inspection Circle).		
Ballarpur	Government of India	1
Barkui	Penoh Valley Coal Co., Ltd.	5
Bhajipani	Penoh River Coal Co., Ltd.	3
Buteria	Penoh Valley Coal Co., Ltd.	6
Chandametta		7
Craddock	Central Penoh Valley Coal Co., Ltd.	4
Jatachhapper	Upper Penoh Valley Coal Co., Ltd.	8
Mohpani	Great Indian Peninsula Railway	9
British Baluchistan (No. 2 Inspection Circle).		
Bhor	Khan, Bahawal	8
Davispur	Asgharali & Co., Abdulla	2
Digari	Ferozshah, Shiawakshaw	5
	Khan, Bahawal	9
	Sorabji & Co.	18
Khost	North-Western Railway	10
Leze	Sorabji & Co.	14
Mach	Patel, K. B. B. D.	11
	Alibhoy Brothers	1
Sor Range	Chand, Devonial Khein	3
	Essaji & Sons	4
	Ferozshah, Shiawakshaw	6
	Hossein Ali & Co.	7
	Patel, K. B. B. D.	12
	Sorabji & Co.	15
Burma (No. 1 Inspection Circle).		
Thitchauk	Burma Mines Development and Agency, Ltd.	1
Eastern Bengal and Assam (No. 1 Inspection Circle).		
Ledø Valley (East)	Assam Railways and Trading Co., Ltd.	1
Ledo Valley (Upper)		2
Ledo Valley (West)		3
Maolong	Maolong Coal Co.	7
Namdang	Assam Railways and Trading Co., Ltd.	5
Tikak		6
Tirap		4

APPENDIX V—*concl'd.*

Name of Mine.	Name of Owner or Company.	Serial No. in list.
Punjab (No. 2 Inspection Circle).		
Chatterwal	Nath, Bhola	14
Chhaja	Chand, Lakhmi	1
Chitt Dand	Panjab Coal Co.	13
Chhauwala		19
Chota Tajuwala	Ram & Sons, R. S. Rocha	20
Dandot	North-Western Railway	17
Dbarahi	Dass, Ishar	7
Dher	Dass, Ganesh	6
Dherewali	Nath, Bhola	15
Gamrala	Dass, Thakur & Ramji	10
Kadi Mithawali	Lal & Co., Krishan	11
Katha	Dass, Bhagwan and Ram	2
Kotianwali	Lal & Co., Krishan	12
Makarwal	Singh & Co., R. B. Anup	22
Nalli	Singh, Malik Mohan	23
	Singh, Soojan	24
Nanak Oband	Dass, Ishar	8
Narianwala	Ram & Sons, R. S. Rocha	21
Natanwali	Lal & Co., Krishan	13
Rodianwali	Dass, Ishar	9
Samewala	Dass, Bhagwan and Ram	3
Tajuwala		4
Thakkar Kot	Nath, Bhola	5
Wahgroowali		18