

CMRS Publication 1956

S.N.	Author(S)	Title	Name of the Journal	Reference
1.	Bagchi, S	Pressure Development in Stowing Ranges	Indian Mining Journal	April, 1958
2.	Bagchi, S	Roof Control during Depillaring with Stowing at Depths	Indian Mining Journal	Special Issue 1958
3.	Bagchi, S	Mining Coal India – Some Problems	Indian Mining Journal	August 1958
4.	Guruswamy, S. & Narasimhachar, V.S	Geometric Mean particle size and Its Application in Sampling of Air borne Dust	Journal Science Industrial Research	Vol. 19B P; 319- 323 (1959)
5.	Bagchi, S	Mine Accidents A Statistical Study	IMMA Review	Vol. VII, No. 384
6.	Kanungo, D.	Experimental Reproduction in Wet Clay of an Echelon zones of Tension and Shear Fractures read in the Session	Indian Science Congress in Journal	1959
7.	Bagchi, S	Difficulties of Working thick Seams	Indian Colliery Review Independence Day	Number, 1959
8.	Bagchi, S	Heat and humidity in Mines	Magazine of Technology Mineral Engineering, Association I.I.T Kharagpur	1 st issue 1959
9.	Bagchi, S	Coal Mining in India	Indian Colliery Review Republic Day	Number February, 1959
10.	Bagchi, S	Hydraulic Transportation of Coal	Journal of Mines Metals & Fuel	May, 1959
11.	Kanungo, D.	A New Method of Analysis of Deformed Pebbles Proc.	Indian Science Congress Bombay	Session p; 247
12.	Guruswamy, S. & Narasimhachar, V. S	The Usefulness of Geometric Mean in Particle size studies Proc;47 th	Indian Science Congress	Part. III p;20 1960
13.	Dutta, D. P, & Bagchi, S	Light & Seein	Journal of Mines Metals & Fuel	August, 1960
14.	Ghosh, A K.	The Development and Scop of Method Study in Mining	Journal of Mines Metals & Fuels	August, 1960
15.	Badami, G. N	Use of Electricity in Explosive Gas and Vapour and FlammableDust Atmospheres	Explosives Symposium Kirkee 15-17	December , 1960
16.	Kaiser, K. N	Heat and Humidity in Mines	Journal of Mines Metals & Fuels	Vol. 11(2) February 1961
17.	Badmi, G. N	Hazards form Frictional Sparks of Certain Light Alloys	NML Technical Journal Light Metal Industry in India Symposium Number.	February, 1961

18.	Ghose, A K. Vemban, V S & Bagchi, S	Hydraulic Stowing in Mines Some Theoretical Design	Journal of Mines Metals & Fuels	Vol. 9 No. 1-6 March, 1961
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CMRS Publication 1961

1.	Chakraborty, M K	Dust Problems in Coal mines	Journal of Mines Metals 7 Fuels	May, 1961
2.	Whitaker, J W & Ghose, A K.	A Not on the Coal Mining Industry in India during	Mining Engineer	Vol. 120. No. 9 June, 1961
3.		An abstract of the whole done so far in connection with the carbon monoxide detector yube appeared in	Research & Industry	August, 1961 Vol. 6, No. 8
4.	Ghosh, A. K	Health hazards of Dust in Mines with Special Reference to Pneumoconiosis A Review	Journal of Mines Metals & Fuel	Vol. IX, No. 8 August, 1961
5.	Chakra, M. K	Plan to Reduce mining Health Hazards needed borty	Indian Manufacturer	Vol. 1 No. 4 October, 1961
6.	Bagchi, S	Souvenir of the Maharashtra	Mineral Industries Conference	December, 1961
7.	Ghha, A. B & Bagchi, S	Read as Special Lecture on the occasion of Symposium on Mechanization of Mines in India on 9-12December 1961 Mechanization of Mines Special issue 1962	Journal of Mines Metals & Fuels	Special issue 1962
8.	Kaiser, K, M Narayana, V. S & Dastidar, N. C Bagchi, S	Presented at the Symposium on Mechanization of Mines in India 9-12 December, 1961 Mechanization of Mines	Journal of Mines Metals & Fuel	Special Issue 1962
9.	Sinha, K. N	International Conference of Director of the Mining Research Station the New Sketch Republic Day Special Number	January,	1962
10.	Sinha, Dr, K, N	Indian Science Congress The Coalfield times Republic Day Number	January,	1962
11.	Bagchi, S.	Hydraulic Stowing Assessment of Its potentialities in Relation to Indian Coal Mining	The New Sketch Republic Day Special Number	January, 1962
12.	Bagchi, S.	Hydraulic Stowing A review of Development	EMC, Review	January, 192 First Issue

CMRS Publication 1962

1.	CMRS	Complex one in Mineral Analysis A Rapid Complex metric Methods of Analysis of Manganese Ores and Minerals	Research paper No. 3 Rseference V2/3	March 1962
2.	CMRS	Hydraulic Stowing of Crushed Stone in an Indian Mine A Study and Investigation	Research paper No. 4 Reference CMRS M1/4	October, 1962
3.	CMRS	Illumination Survey in an Indian Coal Mine	Research paper No. 5 Reference V3/5	(February)1963

Research papers and Reports in Press

1.	CMRS	A Survey of Stone dusting materials in Use in Indian Mines	Research paper No. 6 Reference CMRS- V4/6	1963
2.	CMRS	Ventilation Survey of Mine No. 1	Research paper No. 7 Reference CMRS-V5/7	

Review Papers

1.	Sinha, Dr. K N	Coal & Steel Annual Number	CMRS	September, 1962
2.	Sinha, Dr. K N	Contributions Research to Mine Safety Coal & Steel	Contributions Research to Mine Safety	December, 1962 13-15
3.	Sinha, Dr. K N	Contributions Research to Mine Safety	New Sketch Republic Day Number 26	January, 1963
4.	Chakraborty, M K	Occupational Health Problems in Mining Industry	Republic Day Number	January, 1963
5.	Bagchi, S	Advancement and Creative thinking	The New Sketch Republic Day Special Number 26	January 1963
6.	Sinha K. N	A Coal Mine of Poland	The Mineral Engineer Indian Institute of Technology, Kharagpur	Vol. III 5-9 1962
7.	Guruswamy, S	Instrument & Techniques of Sampling Mine Dust	Journal of Scientific & Industrial Research	Vol. 22 49-51 1963

CMRS Publication - 1963

1.	Sinha, K. N	Contribution of Central Mining Research Station in the industrial growth of the country.	Coal & Steel	Vol. III No. 13. 1963
2.	Singh, B	Symposium on mechanization of mines in India	Part. I Special Lectures IMMA Review	Vol. XII, 19 1963
3.	Singh, B	Symposium on mechanization of mines in India part II Winning methods of work and detailed operation	IMMA Review	Vol. XII 25 1963
4.	Singh, B	Symposium on mechanization of mines in India part III Transport	IMMA Review	Vol. XII 33 1963
5.	Singh, B	Application of Sonics to strata control research Part I	Journal of Mines Metals & Fuel	Vol. XI No. 1 1963
6.	Singh, B	Application of Sonics to strata control research Part II	Journal of Mines Metals & Fuel	Vol. XI 9 1963
7.	Baijal, R. N	Electrical methods of exploration as applied to mining	Journal of Mines Metals & Fuel	Vol. XII No. 1, 1964
8.	Chakarborty, M. K & Mukherjee, R N	Certain Aspects of Environmental health condition in Indian Mines A study	Indian Journal of Industrial Medicine	Vol. IX 91, 1963
9.	Chakarborty, M. K & Guha, Roy	Some observation on the physiological responses in mine rescue work	Indian Journal of Industrial Medicine	Vol. IX 1963
10.	Chakarborty, M. K	Occupation health problems in mining Industry	The New Sketch Republic Day Special Number	January, 1963
11.	Chakarborty, M. K	Health hazard in mines	Coal & Steel	Vol. III No. 13, 1963

12.	Chakarborty, M. K & Islam, S	Lung function test Maximum breathing capacity and its relation to forced expiratory rate Proceedings of the Indian Sciences Congress Association 50 th Session	Abstract	1963
13.	Bagai, S, K . Das, & Guruswamy, S	Standard Procedure for Particle size determination of sub-sieve mine dust by means of microscope	Indian journal Technology	Vol. 1, 1963
14.	Guruswamy, S. Narasimhachar, & Gopalakrishnan, N	Standard Procedure for the assessment of size and concentration of air-borne dust in mines using dust sampling instrument.	Indian Journal of Technology	Vol. 1. P; 419 1963
15.	Bhaduri, B P, Ghosh, S K. & Mazumdar, S. K	Rapid telemetric determination of phosphorus in Coal and coke	Indian Journal of Technology	Vol. 2, 1964
16.	Ghos, A. k, & Mitra, B	Modified combustion pipette to analysis explosive mixtures of methane with air in hadean Mine air Analysis Apparatus.	Chemistry & Industry, (U K)	Vol. 269 1964
17.	Kaiser, K. M, Narayana, V. S,	Some observations on ventilation of Indian mines	Journal of Mines Metals & Fuels	Vol. XII No. 35, 1964

	Dastidar, N. C, & Bagchi, S.			
18.	Kaiser, K. M	Mine Ventilation	The New Sketch Republic Day Special Number	January, 1962
19.	Sinha, K. N	Mining Research in India Its contribution.	Special Number	Vol. 18, January 1964

CMRS Publication 1964

1.	Ghosh, A. K, Mazumdar, S & Bagchi, S.	Experiments and investigations on roof bolting at a colliery in India	Journal of Mines Metals & Fuels	Vol. XII No. 4, p; 109
2.	Ghosh, A. K, Barat, D, & Bagchi, S	Some Preliminary studies on the impact strength index of Indian coals.	Journal of Mines Metals & Fuels	Vol. XII No. 5, p; 153 (1964)
3.	Sarkar, S. K, Singh, B & Sinha, K, N	Convergence and its implication on mine working	Journal of Mines Metals & Fuels	Vol. XII No. 7, p; 203 (1964)
4.	Saxena, N, C & Singh, B.	Effects of supports on the movement of roof and floor in longwall faces.	Journal of Mines Metals & Fuels	Vol. XII No. 8, p- 239. 1964
5.	Mukherjee, S, K. & Singh, B	Scientific approach to the Problem of rock burst and bumps	Journal of Mines Metals & Fuels	Vol. XII, No. 9 P-273.(1964)
6.	Bhattacharjee, S, N.& Bagchi, S	Studies on coal petrology of the Dishergah Seam in India.	Journal of Mines Metals & Fuels	Vo. XII, No. 10. P- 299,(1964)
7.	Saxena, N, C & Singh, B.	Investigations into the load on underground supports	Journal of Mines Metals & Fuels	Vol. XII No. 11, P- 335. (1964)
8.	Bhattacharjee, S. N. & Singh, B.	Need for synthetic abrasive industry	Coal & Steel	Vol. 16, August. 1964
9.	Singh, T, N & Singh, B.	Partial extraction to minimize surface Subsidence.	Journal of Mines Metals & Fuels	Vol. XII. No. 12, P-369 (1964)
10.	Singh, B.	Symposium on Mechanisation of mines in India part. V Supports and roof control.	IMMA Review	Vol. XIII No. 2. P- 17 (1964)
11.	Chakraborty, M. K & Bose, A. K	Manganese in normal and excessive intake.	Indian Journal of Industry Med.	Vol. 10 P- 110. (1964)
12.	Chakraborty, M. K Mukherjee, R. N, Bose, A. K & Gopalkrishan, N.	An Industrial hygiene survey in a lead smelting factory	Indian Journal of Industry Med.	Vol. 10 P- 145, 1964
13.	Chakraborty, M. K, Islam, M. S. Dutta, P. K	Pulmonary function tests I Lung volumes and capacities of Indians in Health	Indian Physiology & Allied Science	Vol. 18 P- 35 (1964)
14.	Chakraborty, M. K, Islam, M. S	Pulmonary Function Test II. Maximum Breathing Capacity and its relation to timed expiratory Capacities.	Indian Physiology & Allied Science	Vol. 18, p- 87 (1964)
15	Chakraborty, M. K	Industrial toxicology and its recent	Indian Journal of	Vol. 10. p- 1

		trend.	Industry Med.	(1964)
16.	Chakraborty, M. K	Special Health problems in Mining Industry.	Journal of Mines Metals & Fuels	Vol. XII No. 4.p- 105 (964)
17.	Chakraborty, M. K	Industry dust and its assessment.	Journal of Mines Metals & Fuels	Vol. XII No. 9, p-267 (964)
18.	Chakraborty, M. K, & Islam, M. S	The effect of respiratory frequency in the deracination of maximum breathing capacity part III of the Proc. Of the Combined 51 st & 52 nd Section of Physiology.	Indian Science Congress Association	p- 615
19.	Chakraborty, M. K, Guha, Roy, A R, & Chakraverty, R K.	Physiology combined of standard exercise tests Part III of the Proc. Of the Combined 51 st & 52 nd Section of Physiology.	Indian Science Congress Association	p-620
20.	Majumdar, S.	Some features of gas chromatography.	Coal & Steel	p- 56 (1964)
21.	Ghosh, A. K	Sedimentation volume of parameter to study wetting characteristics of coal dusts.	Indian Journal Technology	Vol. 2 No. 6 p- 181 (1964)
22.	Kaiser, K. M Narayana, V. S & Bagchi, S	Pressure survey Instruments.	Journal of Mines Metals & Fuels	Vol. XII No. 3 p- 73 (1964)
23	Guruswamy, S.	Rapid calculations of size Parameter form microscope size number distribution data.	Indian Journal Technology	Vol. 2 p- 211 (1964)
24.	Sinha, K. N	Research as an aid to mining in India	The New Sketch Republic Day Special Number	January 1965 p-69
25.	Sinha, k. N	Central Mining Research Station	Metals & Minerals Review	Vol. III No. 10 p- 19 1964

CMRS Publicatio 1965

1.	Sinha, K. N	Mining Research in India	Souvenir 46 th Annual Convention of Institution of Engineers (India) Patna	1966
2.	Sinha, K. N	Reflection on some Aspects of	New Sketch Special	January

		Mining Industry	Number	1966
3.	Sinha, K. N	Mining Research as an Aid to Self-reliance	Indian Colliery Review	February 1966
4.	Sinha, K. N & Singh, B	Economic of Coalfield Development in India.	Proceeding of the Forth International Mining Congress (London)	July 1965
5.	Singh, B	Safety Organization in U.K.	Mine Safety News	November 1965
6.	Kumar, Ramesh & Singh, b	Mine Subsidence Observations in India A Programme.	Journal of Mines Metals & Fuels	February 1966
7.	Pandey, P & Singh, B	Recent Trends in the methods of Underground Fire-damp Detection.	Journal of Mines Metals & Fuels	September 1965
8.	Dube, A. k & Singh, B.	Method of Determining the Tensile Strength of Rocks	Metals & Minerals Review	April 1965
9.	Singh, B	Research on Mine Working.	The Indian Mining and Engineering Journal	Nov. Dec. 1965
10.	Datey, U.W	Some Techniques of Operational research and Their Application to Mining Industry in India and Abroad.	IMMA Review.	Vol. XIV No. 3, P- 3
11.	Sheorey, P. R & Singh, B	Influence of Rock and Size of Specimens on the Compressive Strength of Rocks	Metal & Minerals Review	February 1965
12.	Jethwa, j. L & Singh, B	Strength of Rocks and Methods to Find Out Shear Strength of Rocks.	Metals & Minerals Review	March 1965
13.	Nandi, D. K, Banerjee, S. C & Chakarvorty, R, N	Effect of Incombustible Material on Critical Oxidation Temperature of Coal.	Indian Journal of Technology	May, 1965
14.	Banerjee, S, CNandi, D. K & Chakravorty, R. N	Studies in the mode of Disappearance of Carbon Monoxide Over Coal in Sealed off Areas in Mines.	Indian Journal of Technology	June 1965
15.	Sampath Kumar, T & Dutta, D. P	Interference Methanometers.	Journal of Mines Metals & Fuels	February 1965
16.	Narayana, V, S & Chakravorty, R, N	Booster Fans in Mines	Journal of Mines Metals & Fuels	July 1965
17.	Chakravorty, R. N & Narayana, V, S	Correspondence on the Poper by Prof. F. B Hinsley entitled An Enquiry into the Principles and Mutual Interaction of Natural & Fan Ventilation	The Mining Engineer	July 1965
18.	Chakraborty, M. K	Work Physiology Its Application in Industry for Increased Efficiency.	Indian journal Industrial Med.	December, 1965
19.	Chakraborty, M. K	Health Hazards in Mining Industry.	Metals & Minerals Review	June, 1965

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Patents

1.	Singh, B	Modified expansion type Bolt	104389	March, 1966
2.	Singh, B	Remote Indicating Hydraulic load cell	104524	March, 1966
3.	Singh, B	Lever roller extensometer	104525	March, 1966
4.	Singh, B	Remote Indicating Convergence Indicator	104526	March, 1966
5.	Singh, B	Remote Indicating hydraulic load cell using electrical resistance strain gauges	104527	March, 1966
6.	Singh, B	Vernier type convergence indicator.	104864	April, 1966
7.	Singh, B	Clamp type friction prop with two hinges.	106322	July, 1966
8.		Clamp type friction prop with two hinges.	106323	July, 1966
9.	Singh, B	Improved wedge and split type roof bolt.	107830	November 1966

ABROAD

1.	Sinha, K. N	First International Congress on Rock Mechanics	Lab oratorio National de Engenharia Civil Avenida do Brazil Lisbon Portugal 25 September	October, 1966
2.	Sinha, K, N & Singh, B	Instrumentation for the Measurement of Load on underground Supports		
3.	Sinha, K, N	International Conference on Mine fire Scientific coal Research Institute in Ostrava Radvanice Chief Mine Rescue Station in Ostrava Radvanice Czechoslovakia	Study on Mine Fires in India	October, 1966

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Patents

1.	Singh, B & Saxena, N, C	Friction Prop	100489	May, 1967
2.	Sheorey, P R & Singh, B	Lever Roller Extensometer.	1004525	September, 1967
3.	Singh, B	A Direct Indicating Load Cell.	101629	October, 1967
4.	Singh, B	An electrical load on roof bolts.	101715	October, 1967

5.	Singh, B	A load cell for measuring loads.	101716	October, 1967
6.	Singh, B	A load cell for measuring loads.	101717	October, 1967
7.	Singh, B, & Saxena, N, C	A friction prop.	102480	October, 1967
8.	Singh, B.	Load cell for roof bolts.	102603	October, 1967

ABROAD - 1967

1.		Colliery Guardian	London	
2.	Sinha, K, N & Singh, B	Coal Mining in India		
3.		Chemistry and Industry	London	
4.	Gosh, A, K, Rajwar, D, P & Bhattacharya, D	A Micro-Methods for Rapid testing of Catalysts for the Oxidation of Combustible gases		

CMRS,Publication – 1968

PATENTS

1.	Gupta, R, N & Singh, B	Remote Indicating hydraulic Load Cell.	104524	March, 1968
2.	Gupta, R, N & Singh, B	Remote Indicating Convergence Indicator Convergence Indicator.	104526	March, 1968
3.	Gupta, R, N & Singh, B	Remote Indicating hydraulic Load Cell.	102527	March, 1968
4.	Pandey, P, & Singh, B	Convergence Indicator.	104864	April, 1968
5.	Singh, B, & Saxena, N, C	Clamp-type Friction Prop with One Hinge.	106322	May, 1968
6.	Singh, B, & Saxena, N, C	Clamp-type Friction Prop with Two Hinges.	106323	May, 1968
7.	Sarkar, P, G, Tarafdar, G, L, Narayanan, B, Ghara, & Pillai, V, R.	Electrical Relay Tester.	113744	March, 1968
8.	Sarkar, P, G, Tarafdar, G, L, Narayanan, B, Ghara, & Pillai, V, R.	Cable Fault Locator	113745	Marc, 1968
9.	Kaiser, K, M, Gupta, M, L, & Samaddar, N, M.	Mine Ventilation Slide Rule.	114541	June, 1968
10.	Chakravorty, T, K, Sengupta, & Sinha, J, K.	Steel Wire for Rope Manufacture Applying the Material.	115536	June, 1968

ABROAD 1968

1.	Sinha, K, N	Some Aspects of the Problems. of Mine Fire in India	Mining & Safety Japan	Vol. 14. No, 1
2.	Ghosh, A, K, & Banerjee, B, D.	Use of the Carbon Hydrogen Ratio as an Index in the Investigation of	Mining & Safety Japan	Vol. 14. No, 1

Explosion and Underground Fires.

(India)

1.	Chatterjee, B, N.	Wear in Stowing Ranges A Survey.	Metals and minerals Review, Calcutta	February, 1968, Vol. VII, No. 3
2.	Pandey, P, & Singh, B.	A review of Research Work on the Stress in and the Strength of Mine pillars in relation to pillar Design in Level Strata Part, 1	Metals and minerals Review	
3.	Chakravorty, R, P & Sengupta, T, K.	The Influence of Decarburization on the Properties of Winding Rope Wires.	Metals and Minerals Review	April, 1968 Vol. VII No. 5
4.	Pandey, P, & Singh, B.	A Review of Research Work on the Stress in and the Strength of mine Pillars in relation to pillar Design in Level Strata – Part, II	Metals and Minerals Review	April, 1968 Vol. VII No, 5
5.	Sinha, J, K.	Detection of Spontaneous Heating of Combustion Products.	Metals and Minerals Review	April, 1968 Vol. VII No. 5
6.	Dutta, S, K & Singh, B.	Stress Measurement in Mines Part I	Metals and Minerals Review	May, 1968, Vol. VII No. 6
7.	Ghosh, J, C & Sengupta, , K	Metallographic Interpretation of Defects and Failures in Mining Components.	Metals and Minerals Review	May, 1968 Vol. VII No. 6
8.	Dutta, S, K & Singh, B	Stress Measurement in Mines Part II	Metals and minerals Review	June, 1968 Vol. VII No. 7
9.	Singh, J, K	Methods of Tensile Strength Determination of Brittle Materials.	Metals and minerals Review	July, 1968 Vol. VII No. 8
10.	Ghosh, Dastidar, A, B	Design and Calculation of Hydraulic Stowing Installation.	Metals and minerals Review	July, 1968 Vol. VII No. 8
11.	Jain, C K & Sinha, J K	Fatigue in Wire Ropes	Metals and Minerals Review	Vol. VII, No. 8, July, 1968
12.	Kumar, R & Singh, B	Shaft Plumbing in Subsidence Investigations	Metals and minerals Review	Vol. VII, No. 9, August, 1968
13.	Verma B P Raju, N M, & singh, B	Recent Developments in the rock Bolting Techniques	Metals and minerals Review	Vol. VII, No. 9, August, 1968
14.	Dhar, A	Mining in Japan	Metals and minerals Review	Vol. VII, No. 9, August, 1968
15.	Barat, D Mozumder, & Singh, B	Strength in Situ	Metals and minerals Review	Vol. VII, No. 10, September, 1968
16.	Datey, U W Prasad, A S,	Study of production Organization in	Metals and minerals	Vol. VII, No.

	Singh, S R & Tetarbai, B B P.	a Colliery	Review	10, September, 1968
17.	Dasgupta, A Tarfdar, M N & Roy, P R	Study of Rock Drilling in Jharia Coalfield	Metals and minerals Review	Vol. VII, No. 11, October, 1968
18.	Singh, R Singh, H C, & Chakravorty, R N	Studies in the Self-heating in Coal Stacks	Metals and minerals Review	Vol. VII, No. 12, November, 1968
19.	Manda, A k & Sinha, J K	Design of Intrinsically Safe Apparatus	Metals and minerals Review	Vol. VIII, No. 1, December, 1968
20.	Sarkar, B D	A Study of the Density of Coal form Some Seams of Jharia Coalfield	Metals and minerals Review	Vol. VIII, No. 1, December, 1968
21.	Sao, N L Roy, P R & Sinha, J K	Ultrasonic Non destructive Testing of Winding Gear in Collieries	Metals and Minerals Review	Vol. VIII, No. 3, February, 1969
22.	Roy, P R & Sinha, J K	Standardization in Mining Industry	Metals and Minerals Review	Vol. VIII, No. 4, March, 1969

PATENTS, 1969

1.	Singh, B.	A Device for the Measurement of Displacement Between Two Points.	98143
2.	Singh, B, & Verma, B, P	Modified Expansion Shell- type Roof Bolt.	104389
3.	Verma, B, P	Improved Wedge and Roof Split type Roof bolt.	107830
4.	Ghosh, A, K & Banerjee, N, N	Sulphide Detector Tube	110409
5.	Sarkar P, G Tarafdar, R N, Ghara, B, Laxminarayana, & Pillai, V, R	Electrical relay Tester.	113744
6.	Tarafdar, R N, Sarkar P, G, Ghara, B, Pillai, V, R Laxminarayana, &	Cable Fault Locator.	113745

Papers Published 1969

ABROD

1.	Raju, N, M Singh, B & Sinha, K, N	Roof Bolting – An Effective System of Support in an Indian Coal Mine.	Canadian Institute of Mining and Metallurgical Bulletin	March, 1969
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Indian

1.	Barman, B, K & Singh, B.	Some Aspects of Roof Bolting Practice.	Metals and Minerals Review	April, 1969
2.	Raju, N, M	Measurement of Longitudinal Wave Velocity by Pulse Technique	Metals and Minerals Review	August, 1969
3.	Sinha, J, K	A review of Methods for Determination of Dust in Lungs.	Metals and Minerals Review	August, 1969
4.	Shorey, P, R & Singh, B	The Influence of Eng Constraint on Rocks Under Uniaxial Compression.	Metals and Minerals Review	September, 1969
5.	Sao, N L Roy, P, R & Sinha, J, K	Radiographic Practice in Mining Industry.	Metals and Minerals Review	November, 1969
6.	Ali, S, V & Raju, N, M	Investigation into the Use of Recoverable Wedge type roof Bolts Mechanised Coal Mine.	Metals and Minerals Review	November, 1969
7.	Ali, S, V & Singh, B	Evolution of Coal Ploughs.	Metals and Minerals Review	December, 1969
8.	Golay, M S & Dutta, K, K	Water to do When Physician not Available.	Metals and Minerals Review	December, 1969
9.	Datey, U, W.	Pumping in Indian Coal Mines	Journal of Mines Metals & Fuels, (Calcutta)	March, 1969
10.	Sarkar, B, P & Mukherjee, K, P.	Trend of Dust Spraying in Indian Coal Mines.	Journal of Mines Metals & Fuels, (Calcutta)	April, 1969
11.	Sarkar, B, P Gupta, A, & Mukherjee, K, P.	Corrosion Study in Indian Coal Mines.	Journal of Mines Metals & Fuels, (Calcutta)	August, 1969
12.	Dube, A, K, & Singh, B.	Determination of tensile Strength of Rocks by Disc test Method.	Journal of Mines Metals & Fuels, (Calcutta)	September, 1969
13.	Ghosh, S, K, & Chakraborty, M, K.	Comparison of Some Soda lime Preparation for Suitability of Use in Breathing Apparatus	Journal of Mines Metals & Fuels, (Calcutta)	November, 1969
14.	Ali, Hussain	Mine Air Analysis A Study	The New Sketch, Dhanbad	2, June, 1969
15.	Raju, N M & Singh, B	A New Method of Grouting Roof Bolts for Roof Support	The New Sketch, Dhanbad	19, January, 1970
16.	Sinha, K N	A Study of Problems of Mine Fires	The New Sketch, Dhanbad	16, January, 1970
17.	Singh, B	Human Aspect in Mine Safety	The New Sketch, Dhanbad	26, January, 1970
18.	Sarkar, S K	Small Scale Industries in the Jharia Reneging Coal Belt A Study of Techno-economic Feasi bility	The New Sketch, Dhanbad	16, February, 1970
19.	Barat, D Mazumdar, S & Singh, B	Simple laboratory Methods for the Assessment of Coal Strenght	Journal of Institution of Engineers, Calcutta	November, 1969
20.	Raju, N M & Singh, B	Roof bolting and Crushing Strength Investigations at S Group of Collieries	Journal of Institution of Engineers, Calcutta	November, 1969
21.	Raju, N M & Singh, B	Roof Bolting Investigation in	Journal of Institution of	November, 1969

		Mechanized Mines of S Collieries	Engineers, Calcutta	
22.	Sinha, K N & Ramaswamy, T	A Comparative Study of Drift and Borehole Stowing at S Collieries	Journal of Institution of Engineers, Calcutta	November, 1969
23.	Golay, M S	The Medical Technologist	Your Health, Calcutta	May, 1969
24.	Golay, M S	Drinking and Health	Your Health, Calcutta	August, 1969
25.	Golay, M S	Some Important Relations of Man and Machine	Indian Industries, Madras	July, August, 1969
26.	Goswami, S C gopalkrishnan, N Mukherjee, R N & Chakraborty, M K	Dust Problems Under Diverse Occupational Situation	Indian Journal of Industrial Medicine, Calcutta	April, 1969
27.	Golay, M S	Evolution of Red Cell Count	Indian Medical Journal, Calcutta	August, 1969
28.	Dhar, A	Mining of Iron Ore in Sweden	The Indian Mining & Engineering Journal, Bombay	January, Feb, 1969
29.	Singh, B	Mining Research as an Aid to Subsidence	Invention and Intelligence, New Delhi	June, 1969
30.	Sinha, K N	Research for industrial Development	Hindustan Standard, Calcutta	18, March, 1970

CMRS, Publication – 1970

PATENTS

1.	Gupta, R, N. Singh, B, & Sinha, K, N.	A Hydraulic Prop Incorporating Load Indicating Device	124951	21/01/1970
2.	Singh, B & Verma, B, P.	Modified Expansion Shell-type roof Bolt	104389	21/02/1969
3.	Sarkar, & Tarafder, B Ghara, G	Electrical Relay tester.	113744	02/8/1969

	Lakshminarayanan & Pillai, V, R.			
4.	Tarafder, R, N Sarkar, P, G, Ghara, V, R Pillai, & Lakshminarayanan, G	Cable Fault Locator.	113745	22/09/1969
5.	Singh, B, & Saxena, N, C.	Friction Prop.	102480	12/11/1970
6.	Singh, B	Electrical Roof bolt Load Cell (M-section)	102603	22/11/1970

Papers Publication – 1970

(ABROAD)

1.	Sheorey, P, R.	Effect of Specimen Size on Compressive Strength of Coal	International Journal of Rock Mechanics and Mining Sciences	February, 1970
2.	Ramanathan, S.	Flameproof and Intrinsically Safe Electrical Equipment.	Mining Technology (U K)	May, 1970
3.	Sinha, K, N & Singh, B.	Trend of Investigations of Mining in India.	International Mining Congress	June, 1970
4.	Banerjee, S, C Banerjee, B, D & Chakravorty, R, N	Rate Studies of Aerial Oxidation of coal at Low Temperature.	Fuel, (U K)	July, 1970

INDIAN

1.	Ramaswamy, T, Sarkar, S, K & Singh, B	Can Our Existing Lab our Set- up Cope with Intensive Mechanist ion in Mining	Mining Magazine (Varanasi)	Vol. 2 1970
2.	Datey, U, W	Do Indian Collieries Need Mechanizations	Mining Magazine	Vol. 2, 1970
3.	Sarkar, S, K & Singh, B	Index of Concentration on Faces a Measure of the Success of Long wall Mechanization in India	Mining Magazine	Vol. 2, 1970
4.	Ali, S, V & Singh, B.	Evolution of Coal Ploughs	Mining Magazine	Vol. 2, 1970
5.	Baliga, B, D	High Speed Driving of Roadway in Russian Mines and Its Economics	Mining Magazine	Vol. 2 1970
6.	Saxena, N, C & Singh, B	Anderton shearer in Curved and Stowed Long wall Faces in India	Mining Magazine	Vol. 2 1970
7.	Raju, N, M. & Singh, B	A Comparative Study of the Mechanised and Conventional Methods of Working in a Group of Collieries.	Mining Magazine	Vol. 2 1970
8.	Raju, N, M & Singh, B	Roof Control in Mechanised Mines in India	Mining Magazine	Vol. 2, 1970
9.	Singh, T, N & Singh, B.	Strata Control with High rate of Face Advance	Mining Magazine	Vol. 2, 1970

10.	Ramaswamy, & Singh, B	The Importance of Pro-determination of Subsidence Effects with Mechanised Caving Methods of Working	Mining Magazine	Vol. 2, 1970
11.	Ali, S, V & Raju, N, M	Investigation on the Use of Recoverable Wedge – type Roof Bolts During Splitting Operations in a Mechanised Coal Mine	Mining Magazine	Vol. 2, 1970
12.	Thakur, D, N & Singh, V	Secondary Breaking of Rocks in Mechanised opencast mine	Mining Magazine	Vol. 2, 1970
13.	Sheorey, P, R. & Singh, B	Some recent pillar Design Formulae and their Applicability to Indian Coal Mines	Journal of Mines Metals & Fuels, (Calcutta)	February, 1970
14.	Thakur, D, N	Design of Benches in Mechanised Opencast Mines	Journal of Mines Metals & Fuels	May, 1970
15.	Datey, U, W	Organisation and Productivity	Journal of Mines Metals & Fuels	June, 1970
16.	Datey, U, W	Coal Loading at Faces in Indian Coal Mines	Journal of Mines Metals & Fuels	June, 1970
17.	Ajai,	Operational Research	Journal of Mines Metals & Fuels	June, 1970
18.	Gupta, R, N & Singh, B	Design and Performance of Spiral Chute Installations in India and Abroad	Journal of Mines Metals & Fuels	July, 1970
19.	Bandyopadaya, M & Chakraborty, M, K	A Mathematical Model for Measuring Mass/Number Index of reparable Airborne Coal Dust	Journal of Mines Metals & Fuels	July, 1970
20.	Rajwar, D, P Ghosh, S, K & Ghosh, A, k	Use of CO Detector Tubes Developed at Central Mining Research Station Dhanbad for the Estimation of Very Low Concentration of the Gas.	Journal of Mines Metals & Fuels	September, 1970
21.	Sinha, B, Raju, N, M & Singh, B.	Use of Seismitron Amplifier to Determine Stability of Mine Workings in India	Journal of Mines Metals & Fuels	September, 1970
22.	Roy, P, R Tarafdar, M, N	Corrosion in Mine Wire Ropes	Journal of Mines Metals & Fuels	November, 1970
23.	Singh, T, N & Singh, B.	Load and Convergence Measurement in Worked Out Areas in Mines A Critical Review	Journal of Mines Metals & Fuels	January, 1971

CMRS Publication – 1971

PATENTS

1.	Nigam, U, S & Kumar, T, S	An apparatus for Testing the Mechanical Strength of glass shells	133209	12/10/1971
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		of finished Miniature electric bulbs of miners cap lamps.		
2.	Acharya, K, K	A Design of Gas detector feeder.	133309	22/10/1971
3.	Bagchi, A.	A Process for the Preparation of Hydrocarbon vapour detector tube (petroleum hydrocarbon)	133329	23/10/1971
4.	Verma, B, P Raju, n, M & Singh, B	A New Method of Grouting Roof Bolts.	133631	16/11/1971
5.	Dutt, A, K Tarafder, M, N & Roy, P, R	Automatic lubricator for winding wire ropes in service.	122718	23/4/1971
6.	Gupta, R, N Singh, B, & Sinha, k, N	A Hydraulic Prop Incorporating a load Indicating device.	124951	21/10/1971

Papers Publication – 1971

(ABROAD)

1.	Bhaduri, B, P & Jayprakash, k, C	Complex metric Determination of Copper and Nickel in Cu-Ni Alloys	Metallurgy & Metal Forming, (Lodon)	October, 1971
----	----------------------------------	---	-------------------------------------	---------------

(INDIA)

1.	Dhar, A	Mass Communication for Development of Mining Community.	Hindustan Standard (Calcutta)	November, 1971
2.	Banerjee, P, K 7 Kumar, T, S	Photography and Communication	Hindustan Standard	December, 1971
3.	Chaudhuri, A, K	Mineral Industry in Bihar.	The New Sketch, Dhanbad	19 April, 1971
4.	Bandyopadhyay, K, L	Bauxite	The New Sketch	24 May, 1971
5.	Chaudhuri, A, K	Progress of Coal Mining in India	The New Sketch	21, June, 1971
6.	Sinha, I,	Economic Aspect of Blasting Technique with Special Reference to Opencast mines	The New Sketch	24, January, 1972
7.	Dhar, A.	Mass Communication in the Mining Industry.	The New Sketch	14, February, 1972
8.	Ghosh, S, K, Rajwar, D, P	Use of gas Chromatography in Mining Industry.	Metals & Minerals Review, (Calcutta)	April, 1971
9.	Banerjee, S, C & Chakraborty, R, N	Studies on the Peroxy Complex in Coal	Metals & Minerals Review,	May, 1971
10.	Sarkar, S, k & Mandal, K, N.	Pneumatic Sinking Hazards and Safety Measures	Metals & Minerals Review	May, 1971
11.	Chetty, B, A.	Switching Circuits in Mining Electrical Equipment.	Metals & Minerals Review	August, 1971
12.	Dey, N, G	Explosion hazard During Testing for Continuity of Detonators.	Metals & Minerals Review	August, 1971

13.	Chetty, b, A.	Transducers in mining Industry.	Metals & Minerals Review	September, 1971
14.	Dube, A, K & Singh, B.	Bending of a Rock Beam.	Metals & Minerals Review	September, 1971
15.	Mukherjee, K, P Samanta, S, & Singh, B.	Strata Control Observations at a Longwall Face in Jharia Coalfield.	Journal of Mines Metals & Fuels	April, 1971
16.	Bandyopadhyay, M Chakraborty, M, K.	Dimensions of a Gravimetric Coal Dust Collecting Sampler.	Journal of Mines Metals & Fuels	May, 1971
17.	Dutta, P, K	A review of Research work on the Principles of Percussive Drilling.	Journal of Mines Metals & Fuels	June, 1971
18.	Mukherjee, K, P Sarkar, B.	Studies in Some Physico-Chemical Properties of Indian Magnet ties.	Journal of Mines Metals & Fuels	July, 1971
19.	Ali, S, V.	An investigation into the Pillar Splitting as Final Operation.	Journal of Mines Metals & Fuels	October, 1971
20.	Dube, A, K & Singh, B.	Effect of Humidity on Tensile Strength of Sandstone.	Journal of Mines Metals & Fuels	January, 1972
21.	Nady, D, K Banerjee, D, D & Chakravorty, R, N	Application of Crossing Point Temperature for Determining the Spontaneous Heating Characteristics of Coals.	Journal of Mines Metals & Fuels	February, 1972
22.	Ali, S, V; Raju, N, M & Singh, B.	Some Aspects of Armstrong Air Breaker.	Indian Mining & Engineering Journal	June, 1972