



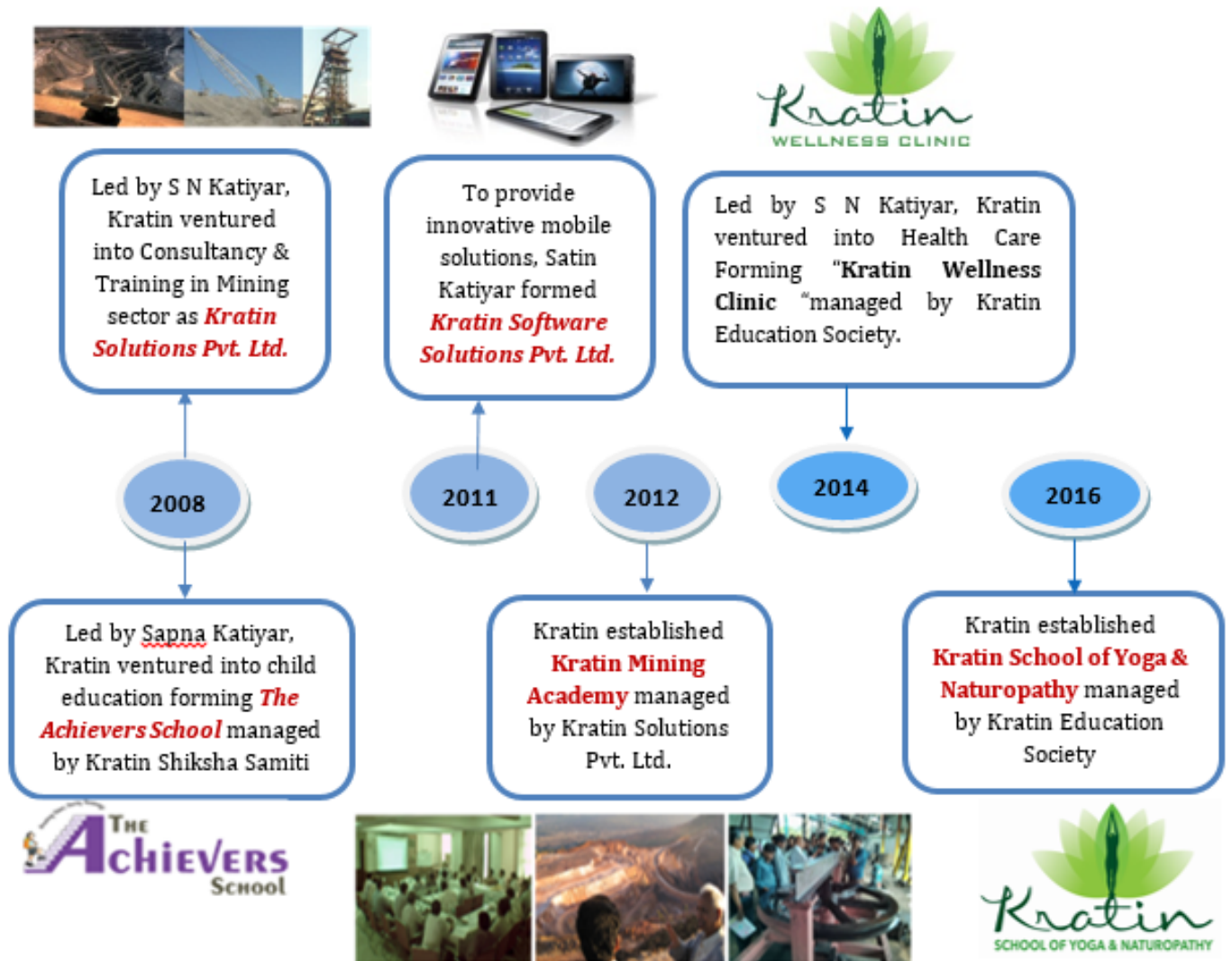
Kratin

*Breathing Values,
Sharing Knowledge*

Kratin Solutions Pvt. Ltd.

A Brief Profile

About Kratin Group



About Kratin Solutions Pvt. Ltd.

Realizing the future growth and expected challenges to Indian Mining Industry, in 2008, Kratin group, under the leadership of Sri S. N. Katiyar, Ex. Director (Technical) BCCL (a subsidiary of Coal India Ltd) ventured into Mining Sector. Sri. S. N. Katiyar has more than 41 years of experience in Indian Mining Industry.

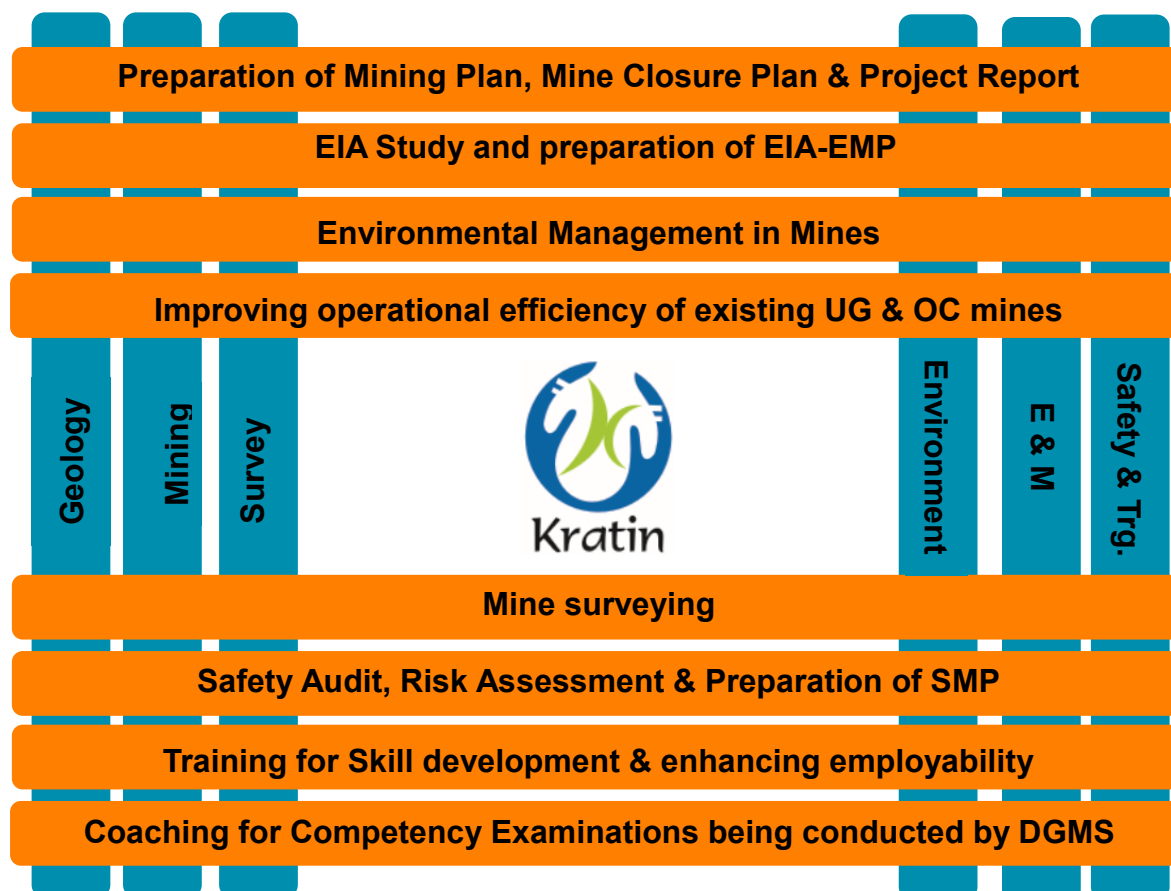
Kratin has a team of experts with vast know-how and experience in Indian Mining industry spanning across multiple disciplines (Mining, Electrical, Mechanical, Environment, Finance, Geology, Surveying as well as electronics & information technology) and geographies (West Bengal, Orissa, Jharkhand, Madhya Pradesh, Chhattisgarh and Maharashtra).

Since 2008, Kratin has been actively involved in providing solutions in the area of Planning, Operation, Environment, Health & Safety and Training, to the Indian mining industry.

We offer

Kratin offers multifarious services to the Mining Industry, right from skill development to mine planning, re-organization and management of mining operations to improve the operational efficiency.

Some of the services offered by Kratin in Coal & metalliferous mining are given below:



Mine Planning:

- 1) Reserve Estimation of coal & mineral blocks. Preparation of Geological Report.
- 2) Conducting Techno Economic Viability (TEV) study.
- 3) Preparation of -
 - Detailed Project Report (DPR);
 - Mining Plan & Mine Closure Plan;
 - Rehabilitation & Resettlement (R&R) and Corporate Social Responsibility (CSR) Plan;

Management of Environment:

- 1) Conducting EIA-Study & preparation of EIA-EMP.
- 2) Obtaining Environment Clearance (EC)
- 3) Compliance of EC Conditions

Surveying

Kratin provides following services related to survey using state-of-the-Art instruments including DGPS and Total Station:

- Topographical survey & preparation of contour plan.
- Transfer of National Grid & preparation of plans as per transferred National Grid.
- Fixing the location of mine entries & other infrastructure on the ground in reference to the approved mining plan.
- Survey for updating mine workings (Underground & Opencast) and other surface features as per provisions of CMR 1957.
- All survey related works including stock measurements.

Consultancy

To improve the operational efficiency of the organization, Kratin undertakes system analysis of each mine operation right from planning to dispatch, and suggests corrective & innovative solutions.

Safety:

Safety Audit, Risk Assessment and preparation of Safety Management Plan for coal & Metalliferous mines as per applicable statutory provisions including DGMS Circulars, Recommendations of various Safety Conferences and Standing Committee on Safety.

Training:

Kratin has designed, prepared and delivered comprehensive mining related training programmes in the following areas:

- ❖ Executive/ Staff development programmers;
- ❖ Coaching for Statutory examinations, such as,
 - 1st Class/2nd class Manager's Certificate of Competency (Coal/Metal);
 - Surveyor's/ Foreman's/ Mining Sirdar's/Mate Certificate of Competency.
- ❖ Organizing National Seminars & Workshops on different mining related subjects.

Recognitions:

- Accredited by NABET-QCI as EIA-Consultant Organization in Mining, Coal Washery & Mineral beneficiation sectors in Category A (**Certificate No.: NABET/EIA/1619/IA 0013**).
- Registered under MSME, Govt. of Maharashtra



Quality Council of India

National Accreditation Board for
Education & Training



CERTIFICATE OF ACCREDITATION

This is to certify that
M/s Kratin Solutions Pvt Ltd, Nagpur
is hereby accorded accreditation under the QCI-NABET Scheme for Accreditation of
EIA Consultant Organizations (Version 3)

Scope of Accreditation:

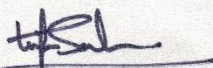
Sl. No.	Name of Sector	Cat.
1	Mining of minerals including opencast/underground mining	A
2	Coal washeries	A
3	Mineral beneficiation	A

Name of approved EIA Coordinators and Functional Area Experts are mentioned in IAAC minutes published on website dated Sep 07, 2016.

Accreditation to the above is subject to the EIA reports being prepared by the experts (EIA Coordinators and Functional area Expert) mentioned in the above minutes and compliance to the Terms and Conditions of Accreditation.

Certificate No: NABET/EIA/1619/ IA 0013

Valid Up to: June 22, 2019
(Subject to continual compliance to NABET scheme)



**C.E.O
NABET**





Profile – President & CEO

S N Katiyar

- B.Sc. (Mining) & First Class Coal Mine Manager’s Certificate of Competency.
- Have more than 41 years of experience in Indian coal mines (Private & Public sectors) across India including management of underground & opencast mines of WCL, SECL and BCCL,
- Worked in underground mines of SECL (Chirimiri, Johila & Raigarh) and in BCCL, Dhanbad.
- Attended Advanced Management Course in U.K. in 1993.
- Introduced First Continuous Miner (Joy) in Indian Mines (Anjan Hill Mine, Chirimiri, SECL) and has undergone training on Depillaring with Continuous Miner in South Africa in 2002.
- Was a member of Standing Committee on Safety in Mines under Ministry of Coal from 2001 to 2005.
- Obtained Recognized Qualified Person (**RQP**) certificate from the Ministry of Coal, Govt. of India to prepare mine plan for Coal/Lignite block.
- Superannuated from the post of Director (Technical) BCCL, Dhanbad on 31st March, 2008.
- Founded Kratin Group consisting of:
 - Kratin Solutions Private Limited in 2008.
 - Kratin Education Society in 2009.
 - [Kratin Wellness Clinic in 2014](#)
 - [Kratin School of Yoga & Naturopathy in 2016](#)
 - Kratin Software Solutions in 2011.
 - Kratin Shiksha Samiti in 2013 – [“The Achievers School”](#).

Our Team

Kratin has a multi-disciplinary team of expert personnel having a proper mix of knowledge, agility, energy, wisdom and proven experience. The team has a deep understanding of practical challenges being faced by the mining companies in India.

Mining Experts in Kratin Team

Name	Qualification & Experience	Designation
Sri S N Katiyar	B. Sc. Mining, ISM, Dhanbad; Ex. Director (Technical), BCCL, CIL, Dhanbad	President & CEO
Sri. S V Joshi	Dip. In Mining, Govt. Polytechnic, Nagpur; Ex. Dy. Chief (Mines) MOIL Ltd.	GM - Safety & Training
Sri S Ramtekkar	M. Sc. Geology, Nagpur University Ex. Geologist, Sarada Energy & Minerals Ltd.	Geologist
Sri U. W. Datey	A I S M, ISM, Dhanbad; Ex. CME, CIL; Senior Consultant, Mining & Environment	Advisor- Mine planning
Sri S.K. Jagnania	B. Tech., Mining, ISM, Dhanbad; Ex. Regional Director (RI-4) CMPDIL, Nagpur; Advisor (Mining) MECL, Nagpur.	Advisor -Mine planning
Sri P K Bakliwal	SATI, Vidisha, MP. Ex.Chief. Engineer (E&M), SECL, CIL.	Advisor – E&M
Sri C. P. Varma	Ex. Supt. Engineer (E & M), WCL. Diploma in Electrical Engineer from Govt. Poly. Jhansi. U.P.	Advisor- E & M
Sri A. K. Sarma	M. Sc. Geology, PG Dip. In Marketing Mgt.; Ex. Dy. Chief Geologist, CMPDIL, CIL; Ex. Sr. GM (BD), Gupta Coal (India) Ltd, Indonesia & South Africa	Advisor - Geology
Sri S. C. Chaurasia	B.Com., Survey Certificate of Competency Ex. Sr. Manager (Survey), WCL, Nagpur.	Advisor- Survey
Sri K M Rao	Ex.- General Manager (Finance), (RI-4) CMPDIL, Nagpur.	Advisor- Finance

Team for preparation of EIA -EMP:-

Sr. No	Name	Superannuated as & from
1.	Sri. U. W. Datey	Senior Consultant Mining & Environment
2.	Sri. A C Ray	Ex. GM (Environment), WCL
3.	Sri. N M Sangode	Ex. Controller of Mines, IBM
4.	Sri. S S Moharil	Ex. Sr. Geologist Govt. Of Maharashtra.
5.	Sri. Y D Khare	Ex. Associate Scientist, MRSAC
6.	Sri N Jadhav	IFS, Govt. of M P

7.	Sr. S Satramwar	Socio – Economic Consultant.
8.	Sri. P Khujnare	Environment Consultant
9.	Sri. S N Katiyar	Ex. Dir (T), BCCL, CIL
10.	Sri S. V. Joshi	Ex. Dy. Chief (Mining), MOIL Ltd. , Nagpur
11.	Dr. Rizwan Reza	Environment Consultant

Visiting faculties at Kratin

Name	Particulars	Subject
Sri. S C Batra	Ex. Dy. Director General of Mine Safety,	Mining laws & Safety
Dr. P K Gandhi	Secretary, Vikalp Society	Corporate Social Responsibility
Sri. N K Prasad	Chief Executive, Minjal	Hydrogeology
Dr. M P Pasi	Ex. Dy. Chief Medical officer (WCL)	Notified & Occupational Diseases

Our experience:

Kratin has successfully executed the following:

Type of Job	Sr. No	Description	Client Company
Preparation of Project Reports	1	Detailed Project Report for Nerad Malegaon Coal Block	Wani Coalfields Pvt. Ltd., Nagpur
	2	Project Report for Brinda – Sisai Coal Block	Abhijeet Infrastructure Ltd., Nagpur
	3	Project Report for Meral Coal Block	Abhijeet Infrastructure Ltd., Nagpur
	4	Techno feasibility report -Mahuagarhi Coal Block	Jas Infrastructure Pvt. Limited, Nagpur
	5	Preparation of Conceptual scheme for reopening of Kustore abandoned mine of BCCL	Sunflag Iron & Steel Co. Ltd.
	6	Project report for Marki Mangli Coal Block III	Topworth Urja & Metals Ltd., Nagpur
	7	Quick Feasibility Report & Financial Model for Bhivkund Coal Block	Ideal Energy Projects Ltd., Nagpur
	8	Detailed Project Report including financial model for Kosara-Dongargaon Coal Block	Gurumehar Mining Company Pvt. Ltd., Gurgaon
	9	Revised mine plan and mine closure plan for Marki Mangli III coal block for a production capacity of 0.36 MTA (Under Preparation)	Topworth Urja & Metals Ltd., Nagpur

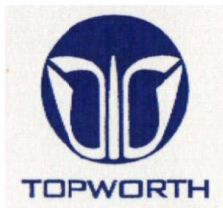
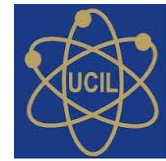
Type of Job	Sr. No	Description	Client Company
	10	Techno Economic Viability Study (TEV) for restructuring and fixed Assets Valuation for Chitarpur Project of Corporate Ispat Alloys Ltd.	Axis Bank
Safety Audit	1	Safety Audit of Chasnalla colliery -2009 -2016	ISP – SAIL, Dhanbad
	2	Safety Audit of Jitpur colliery -2009 -2016	
	3	Safety Audit of Ramnagore colliery -2009 -2016	
	4	Safety Audit of Usha U/G Coal Mine, Banjikhohol	Jayaswal NECO industries Ltd. Raigarh
	5	Safety Audit of JOCCM#1 Mine -2013 2014	Jindal Steel & Power Ltd., Raigarh
	7	Safety Audit of Kaliapani Chromite Mines -2013, 2014	Balasore Alloys Ltd, Jajpur, Odisha
	9	Safety Audit of JPOCCM	Jindal Power Ltd., Raigarh
	10	Preparation of Draft format/Guidelines for External Audit of Mines.	Indian Bureau of Mines, Nagpur
	11	Safety Audit of All NCL Mines-2016	Northern Coalfields Ltd.
Risk Assessment	1	Risk assessment and preparation of Risk Management Plan for Chasnalla colliery	ISP – SAIL, Dhanbad
	2	Risk assessment and preparation of Risk Management Plan for Jitpur colliery	
	3	Risk assessment and preparation of Risk Management Plan for Ramnagore colliery	
	4	Risk assessment and preparation of Risk Management Plan for Milupara coal mine	Monnet Ispat & Energy Ltd., Raigarh
	5	Risk Assessment of Usha U/G Coal Mine, Banjikhohol	Jayaswal NECO industries Ltd. Raigarh
	6	Risk Assessment of JOCCM#1 Mine -2013	Jindal Steel & Power Ltd., Raigarh
	7	Risk Assessment of JOCCM#1 Mine – 2014	Jindal Steel & Power Ltd., Raigarh
	8	Risk Assessment & Preparation of Risk Management Plan of Kaliapani Chromite Mines - 2013	Balasore Alloys Ltd, Jajpur, Odisha
	9	Risk Assessment & Preparation of Risk Management Plan of Kaliapani Chromite Mines- 2014	Balasore Alloys Ltd, Jajpur, Odisha

Type of Job	Sr. No	Description	Client Company
	10	Risk Assessment & Risk Management Plan of JPOCCM	Jindal Power Ltd., Raigarh
	11	Risk Assessment & Preparation of safety management plan of Tummalapalle Mine	Uranium Corporation of India Ltd. (UCIL)
	12	Risk Assessment & Preparation of safety Management plan of TRB Iron Ore Mines,	Jindal Steel & Power Ltd., Tensa, Odisha.
	13	Preparation of Health & Safety Management System of Nine Mines of SAIL-RMD : I. Kiriburu Iron Ore Mine. II. Meghahatuburu Iron Ore Mine III. Bolani Ores Mines IV. Gua Ores Mines V. Barsua Iron Mines VI. Kalta Iron Mines VII. Manoharpur Ores Mines VIII. Kuteshwar Limestone Mines IX. Tulsidamar Dolomite Mines	M/s. Steel Authority of India Ltd. (SAIL-RMD)
	14	Review of the study on Risk Assessment & preparation of Safety & Health Management Plan for MOIL mines/Plants. I. Balaghat Mine II. Ukwa Mine III. Dongri Buzurg Mine IV. Chikhala Mine V. Tirodi Mine VI. Sitapatore Mine VII. Kandri Mine VIII. Munsar Mine IX. Gumgaon Mine X. Beldongri Mine XI. F. M. Plant, Balaghat XII. EMD Plant, Dongri Buzurg	Manganese Ore India Ltd. (MOIL), Nagpur.
Consultancy	1	Improvement of Ventilation of Milupara Coal Mine	Monnet Ispat & Energy Ltd., Raigarh
	2	Surface Infrastructure Design and Cost Estimation - 30 MT Opencast Coal Mine, Orissa	John T. Boyd Company, Australia
	3	Re-starting the closed / abandoned coal mines, Dhanbad	Essar Power Ltd., Delhi
	4	Underground Coal Gasification for Rajasthan State Petroleum Corporation Ltd.,	aXYKno
	5	For working Tasra Coal Block of Steel Authority of India Limited.	

Type of Job	Sr. No	Description	Client Company
	6	For Rajbar, Badam, Godulpara Coal Blocks, Power Project Lalpania of Tenughat Vidhyut Nigam Ltd. (Jharkhand)	
	7	For Rowghat Iron Ore Project of SAIL	
	8	For Pachwara North Coal block of West Bengal Power Development Corporation Ltd. (WBPDC)	
	9	Preparation of Tender Documents of Lanco Infratech Limited	
	10	Preparation of technical specifications for supply of Non-coking Steam (Thermal) Imported Coal to Gujrat State Electricity Corporation Ltd.	Ernst & Young
Survey Job	1	Topological survey & preparation of contour map for Nerad Malegaon Coal Block	Wani Coalfields Pvt. Ltd., Nagpur
	2	Survey Audit of Karwahi Opencast Coal Mine, Raigarh.	Sarda Energy & Minerals Ltd.
Lender's Independent Engineer	1	Chitarpur Coal Mining project, Jharkhand as Lenders Independent Engineer	Axis Bank Ltd.
Training courses for enhancing employability	1	Selection & training of ITI trained electricians & fitters for Milupara mine	Monnet Ispat & Energy Ltd., Raigarh
	2	3 years practical training course for Mining Sirdar	Jayaswal NECO industries Ltd. Nagpur
Corporate Training	1	Training on Risk Assessment & Management, Disaster Management and Recent Development in Mine Safety, Tensa Project	Jindal Steel & Power Ltd.
	2	Training on Disaster Management	SECL, Bilaspur
	3	Orientation course for Safety Officer, Asst. Manager and Supervisor (Overman) at Raigarh	Kratin Solutions Pvt. Ltd., Raigarh
	4	Orientation course for Colliery Engineers & Supervisors	Kratin Solutions Pvt. Ltd., Raigarh
	5	Orientation course for VT Officers & Instructors	Kratin Solutions Pvt. Ltd., Raigarh
	6	Training on mining and mine safety.	M/s. SMS Infrastructure Ltd, Nagpur
	7	Training on Health & Safety Management System for Mine officials of SAIL-RMD mines	M/s. Steel Authority of India Ltd. (SAIL-RMD)
	8		Nagpur (MS)

Type of Job	Sr. No	Description	Client Company
		Training program on Safety management in mining & construction for mechanics & technicians.	Durgapur (WB). Kanchipuram (TN).
		Training program for senior management personnel on "Statutory requirements for HEMM in mining industry (mines & service stations)" with case studies	Nagpur (MS)
	9	Training of Supervisors for Mining Mates Examination	Thriveni Earthmovers Pvt. Ltd. Unchabali, Keonjhar Odisha
	10	Training at Nagpur on Safety Management System in mines for Senior Executives of GMDC.	GMDC
Training courses for enhancing employability	1	Selection & training of ITI trained electricians & fitters for Milupara mine	Monnet Ispat & Energy Ltd., Raigarh
	2	3 years practical training course for Mining Sirdar	Jayaswal NECO industries Ltd. Nagpur
Coaching for competency examinations	1	Manager's certificate of competency- 1 st & 2 nd class (Coal & Metal) • Mine Management, legislation & general safety • Winning & working	Kratin Mining Academy, Nagpur
	2	Overman's and Foreman's certificate of competency	
	3	Mining Sirdar's and Mate's certificate of competency	
	4	Gas testing certificate of competency	
Workshop & Seminars	1	National Workshop on <i>Ventilation & Fire Control</i> in Underground Mines	By Kratin Solutions Pvt. Ltd., Nagpur
	2	National Workshop on <i>Rock Mechanics & Ground Control</i> (Coal & Metal)	
	3	National workshop on <i>Safety Management in Mines</i> at Nagpur (11 th – 12 th August 2012)	
	4	National workshop on <i>Environmental Management in Mines</i> at Nagpur (15 th – 16 th June 2013)	
Research Papers	1	Alternate Sources of Energy - Coal Bed Methane (CBM)	Ernst & Young

Our Esteemed Clients



Contact us:



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Let's collaborate for mutual growth & success
