

INDIAN MINE PLANNERS & CONSULTANTS
(A Geological & Mining Consultants)

A Profile

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About us

Indian Mine Planners & Consultants (IMPCON) has been instituted with the prime objective of guiding for total mining solution to assist in Mine Planning of the Mining Entrepreneurs of Government , Public Sectors and Private Sector bodies engaged in the field of Coal mining, metal and non metal mining. The services is provided by the active and highly experienced mine planners of today's context and guided by the dynamic, pragmatic , qualified and experienced advisors in the field mining with an aim to perform – **safety , productive and sustainable mining with due regard to quality and environment .**

IMPCON caters to the need of existing as well as new **Mining Entrepreneurs** for preparing the geological reports, mining feasibility reports, mining plan, environment impacts assessment (EIA) reports etc. The experience gained by our advisors from various disciplines for over 40 years from organisation like Geological Survey of India, Various subsidiaries of Coal India limited(CIL) including Central Mine Planning & Design Institute Limited(CMPDIL), Steel Authority of India Limited(SAIL), Indian School of Mines etc are well percolated to the young and energetic planners.

IMPCON also delivers advisory services in all the aspects of geology, geo-technical services, hydro-geology, mining, electrical installations and maintenance, possible improvement arena of mechanical performance of the heavy engineering mining machineries, choice of equipments, civil and infrastructural job planning, choice of equipment for mining, manpower planning and finally the total economics of the project viability.

IMPCON has started its activities from the beginning of year 2007 and has already rendered services to prepare Feasibility reports of two captive mining blocks, Mining Plan and Detailed Project Report(DPR) of Captive coal block of Raniganj CF, Conceptual Note on Mining Feasibility of Coal block of Wardha valley CF, Geological Report of Coal Blocks of West Bokaro CF & Wardha Valley CF, besides planning for equipment design and productivity planning for Continuous Miner in large underground mine block. Also, formulation of Technical Parameters and Mine Economics Evaluation study for a mixed coal mine for bidding as MDO(Mine developer & Operator) in Raigarh CF. The list are exhaustive and details are given in the preceding pages.

Mission and Vision of IMPCON

- **Achieve total customer satisfaction for preparing the mining related project reports with due commitment to precision, factual statements and qualitative, analytical performances.**
- **Provide pragmatic approach and user friendly solution of the practices.**
- **Provide all aspects of safety, viability by gainful utilisation of man and equipments of the mining projects.**
- **Constant efforts for improvement of quality of services for project planning to actual implementation for increased productivity and profitability of our clients is our only motto.**
- **Commitment of time without compromise of the standards and quality of the project report under formulation.**

IMPCON may be contacted at:

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OUR SUPPORT TO SPECIALISED SERVICES

1. Geological Services (GS)

- Preliminary Field Geological Reconnaissance Study for assessment of Minerals
- Exploration Planning , Programming and formulation of scheme of detailed exploration
- Geological Data Collection/Generation by way of Exploration and Evaluation of Mineral Deposits (Coal and Non-coal) by conventional diamond core drilling
- Geological Report Formulation using Minex Software(6.0.2 version)
- Assistance to Geological Complexities in the on going mines /projects.
- Geo-Technical Services- Specialised Services for Engineering Geology/Rock Mechanics/Roof Stability in Underground Mines etc.

2. Mine Planning (MPS)

- Mine planning, Design of Mining Methods and Preparation of Mine Plan and Pre- Feasibility/Project Report for Opencast and Underground Coal, Metal and non Metal Mines
- Techno- Economic Feasibility Study of Coal, Metal and Non- Metal Minerals
- Selection of Mining Equipments and Machineries
- Mine capacity Evaluation
- Processing of Approval of Mining Plan from Competent Authority.

3. Hydro-Geological Services (HGS)

- Magnetic and Resistivity Survey for Prospecting Well for sub-Surface Water.
- Subsurface Aquifer Study

- Prediction of Aquifer & Water Table Characteristics.
- Exploration Planning for Hydro-Geological investigations
- Quantitative & Qualitative Assessment of Subsurface Water Resources
- Assessment of Make of Mine water both underground and opencast mines and Management of Zero Discharge of Mine Water for Conservation.
- Water shed development & management
- Rain water harvesting
- Processing of proposals for competent approvals for EIA Clearance of Mining Projects

4. Environment Management (EMS)

- Baseline Data Generation on Environmental attributes, Demography & Socio-Economic Profile Study
- Formulation of Terms of reference (TOR) for Environment Impact Assessment (EIA) Report
- Guidelines for Public Appraisal of Mining Projects (Schedule-“A” & “B” Category)
- Sampling and Analysis of Stack Gas/Ambient Air Quality
- Preparation of Land Use and Land Cover Plan on Digital Processing of Satellite Data
- Preparation of Environmental Impact Assessment(EIA) Report and Formulation of Environment Management Plan, Annual Environmental Audit Statement and Disaster Management Plan etc.
- Presentation before Environmental appraisal Committee(EAC) for Environmental Clearance from Ministry of Environment and Forests (MoEF)

5 FORESTRY MANAGEMENT (FMS)

- Preparation of Forest Land application Proposal as per forest Conservation Act,1980 for Forestry Clearance from Ministry of Environment and Forests (MoEF)
- Preparation of Wild Life Conservation Plan
- Development of Support Systems to obtain approval from MOEF, Govt. of India.

6 FIELD TOPOGRAPHICAL SURVEY (FTS)

- Topographical survey including surface features, measurement of reduced levels and ground contouring, mapping of mineral properties, Geological & Geophysical survey instruments for Iron, Manganese, Chromite deposits and computer software. Details given below:

A SURVEY& OTHER GEOLOGICAL/GEOPHYSICAL INSTRUMENTS

| SL. NO. | NAME | MAKE | MODEL | LEAST COUNT | YEAR OF MANUFACTURE |
|---------|---------------------------------|-----------|------------------|--|---------------------|
| 1 | Total Station | SOKIA | 2030R3 | 1" | 2005 |
| 2 | Micro optic Theodolite | NI | N-17 | 5" | 2003 |
| 3 | Transit Theodolite | NI | N-44 | 20" | 2001 |
| 4 | Auto Level | SOKIA | 2028R | | 2003 |
| 5 | Dumpy Level | NI | | | 2001 |
| 6 | Map Plotter | HP | HP Design 500 ps | | |
| 7 | GPS | Garmin | eTrex VISTA | - | 2009 |
| 8 | DGPS | SOKIA | Grx-1 | H:3mm+0.5ppm V:5mm+0.5ppm | 2012 |
| 8 | Brunton Compas | - | - | - | 2010 |
| 9 | Magnetometer | Proton | IGIS, Hyderabad | PM600 | 2010 |
| 10 | Signal Staking Resitivity Meter | SSRMP ATS | IGIS, Hyderabad | 0.8Hz Frequency &10 ⁸ to 10 ⁴ ohms | 2010 |

B SOFTWARE

- 1 Minex 6.0.2 of GEMCON (Geological Version), Hiring of Mine Optimisation Model is done as and when required from GEMCOM as per agreement.
- 2 SURVCAD SOFTWARE
3. AUTO CAD- 2006/9

7. Allied Engineering Services (AES)

- Mine Ventilation by simulation modelling.
- Heavy Earth Moving Machinery Equipments(HEMM) workshop Design
- Safety of Mine Shafts Units
- Coal Preparation and coal Handling Units (CHP) Design
- Design and Layout of Civil Infrastructure Design (Township, Water Works Distribution , Domestic Effluent Plant)

8 Financial Services (FS)

- Detailed Project Costing & Financial Structuring
- Risk Analysis Study
- Macro and Micro Analysis of Project Viability.
- Equipments Appreciation and Depreciation
- Profitability Index Study
- Budgeting and Fund Syndication

9. LABORATORY SUPPORT (LS)

- Guidance for Analysis of coal /metallic minerals / non-metallic minerals from accredited Govt. or Private Laboratories like CIMFR, NTH, SUPIND etc.

10. GENERAL/MISCELLANEOUS SERVICES (G/MS)

- Identification & assessment of mineral prospects.
- Liaison with various Government, Public & Private Sector Organisations.

- Preparation of application for allocation of coal block through Ministry of Coal, Government of India.
- Proposals of Mineral Concessions (RP/PL/ML)
- Proposals of Land Acquisitions under CBA Act, 1957 and LA act 1857

• **JOBS EXECUTED**

1. Formulation of Mining Plan of Biharinath Block, Raniganj CF (Approved by Ministry of Coal)

2. Detailed Project Report(DPR) of Biharinath Coal Block, Raniganj CF.

3. Preparation of BID documents of Gare-Pelma-II coal block, Raigarh CF on behalf of Mine Developer and Operator(MDO) for opencast and Underground mine with a total capacity of 15MTY.

4. Preparation of Production Plan with continuous Miner in Biharinath Coal Block, Raniganj CF.

5. Pre-tender consultancy services for preparation of Technical report on Parbatpur Coal block, Jharia CF, Jharkhand state.

6. Pre-tender consultancy services for preparation of Technical report on Bicharpur Coal block, Shohagpur CF, MP.

7. Pre-tender consultancy services for preparation of Technical report on Madhuband UG mine of BCCL, Jharia CF, Jharkhand state

8. Pre-Tender Consultancy services for preparation of techno-economic mine feasibility study of Hindegir Underground coal mine, Central Coalfield Limited.

9. Pre-tender consultancy services for preparation of Technical report on Gare-Pelma IV/8 Coal block of Jaiswal-NECO, Raigarh CF, Chhattisgarh state.

10. Conceptual Study on Opencast Potentiality of Rabodh Coal Block, North Karanpura CF

11. Conceptual Mine Feasibility Study of Khappa Coal Block, Maharashtra State

12. Exploration work for preparation of Geological Report on Gomia Block, East Bokaro CF, Jharkhand State (Block allocated to MMTC)
13. Geological exploration for Coal in Bhivkund Block Wardha Valley CF, Maharashtra State.(Block allocated to Maharashtra Power Generation Company Ltd)
14. Scheme of addl. exploratory boreholes for incrop proving of coal seams, Kosara-Dongargoan Block, Wardha Valley CF, Maharashtra state.(Block allocated to Chaman Metallicks Ltd)
15. Pre- Feasibility Report on Moira Modhujore (South) Block, Raniganj CF, WB.(Block allocated to Moira Modhujore Coal Company Ltd)
16. Pre- Feasibility Report on Moira Modhujore (North) Block, Raniganj CF, WB
17. Geological Details of Palasbani coal block for Coal to Liquid (CTL) project as per NIT of Coal India Limited
18. Potentiality of high capacity u/g mines of Tilaboni Extension Block, Raniganj CF as per NIT of Coal India Limited
19. Estimation of detailed seamwise, gradewise, Coal:OB(m:m) ratio wise proved net geological reserves in Nakiya Coal Block, Hasdeo-Arand CF
20. Geological and Geophysical Prospecting of Silpunji- Kanotoria Iron Ore Block, West Singhbhum Dist, Jharkhand
21. Formulation of Mining Plan of Silpunji- Kantoria Iron Ore Block, West Singhbhum Dist, Jharkhand.(Approved by Indian Bureau of Mines)
22. Geological & Geophysical Exploration for Magnetite Iron Ore Deposit in Patharkhama area, Meghalaya State.
23. Geological & Geophysical Surveys by Magnetic and Resistivity survey of Manganese Ore Deposit in Salebardi- Yerwaghat areas, Balaghat District, MP
24. Preparation of supplementary geological report on easternmost part of central Pachwara Block, Rajmahal CF, Jharkhand state.

25. Preparation of detailed geological report of Central Pachwara Block, Rajmahal Coalfield.

26. Collection of Satellite Imagery from NRSA and study of land use plan on the different category of land status for Moira –Modhujore Coal block for hydrogeological study as well as Environment Impact assessment Study.

27. Hydrogeological study of Moira-Modhujore block, Raniganj CF, West Bengal to accord No Objection Certificate from Central Ground Water Authority, New Delhi.

28. Exploration work and Detailed Geological Report preparation based on detailed geological exploration of Trans Damodar Coal Block, Raniganj (Borjora) CF.

29. Preparation of geological Modeling and Geological Report on 400L concession area, Mozambique.

● **Jobs in Progress**

1. Geological exploration in Sangam block and preparation of detailed geological report using Minex software. (Block owned by CMPDIL)
2. Geological exploration in Pachwara (South) block, Dumka District, Jharkhand state and preparation of detailed geological report using Minex software. (Block owned by CMPDIL)
3. Geological exploration in Kalyanpur-Badalpara block, Dumka District, Jharkhand state and preparation of detailed geological report using Minex software. (Block owned by CMPDIL)
4. Detailed Project Report of Marki Barka UG Coal Block, Singrauli Coalfield, M.P. The coal block allotted to Madhyapradesh State Mining Corporation and being operated by a JVC of MPAMRL for a production capacity of 1.0 MTY.
5. Detailed Project Report (1.32 MTY), Revised Mining Plan (1.32 MTY),
6. Revised Geological Model of Bicharpur Coal Block based on additional exploration.
7. Revised EIA/EMP (1.32 MTY) of Bicharpur UG Coal Block, Sohagpur Coalfield, M.P.
8. Surface and Underground Electrical Design for development of Bicharpur Underground coal block.

● **OUR EMINENT ADVISORS & ASSOCIATES**

| Sl. No. | Name of Key Personnel | Qualification | Designation | Experience in No. of years |
|----------------|------------------------------|---|--|-----------------------------------|
| 1 | Sri V.K.Rai | B.Sc Hons. (Mining), ISM, Dhanbad | Retired Regional Director, CMPDI, Planner (Mining) | 40 years |
| 2 | Sri Swapan De Choudhury | B.Sc Hons. (Mining), ISM, Dhanbad | Retired Regional Director, CMPDI, Planner (Mining), RQP (MoC) | 48 years |
| 3 | Sri Pranab Krishna Gupta | B.E. (Mining), B.E. College, Shibpur, Howrah | Retired CGM, ECL, Planner (Mining), RQP (MoC) | 40 years |
| 4 | Sri Shree Ram Roy | B.Sc Hons. (Mining), ISM, Dhanbad | Retired GM, SECL, Planner (Mining), RQP (MoC) | 42 years |
| 5 | Sri Pranab Kumar Banerjee | Chartered Mining Engineer | Retired CME, CMPDI, Planner (Mining), RQP (MoC) | 40 years |
| 6 | Sri S.R. Khanna | B.Sc Hons. (Mining), ISM, Dhanbad | Retired GM, CIL/ CMPDI, Planner (Mine Ventilation) | 44 years |
| 7 | Sri I. K. Singh | B.Sc Hons. (Mining), ISM, Dhanbad | Retired CGM, CIL, Expert (Marketing of coal) | 42 years |
| 8 | Dr. Ajoy Kumar Moitra | B.Sc Hons. (Applied Geology), M.Sc. Geology, Ph.D. , ISM, Dhanbad | Retired Director, GSI, Advisor (Geology) | 46 years |
| 9 | Dr. N.B Chanda | B.Sc Hons. (Applied Geology), M.Sc. Geology, Ph.D. , ISM, Dhanbad | Retired DGM, CMPDI/ CIL, Advisor (Geology, Environment & Forestry matter), Member Australian Institutes of Geo-scientist (AIG), Competent person of Joint Ore Reserves Committee | 38 years |
| 10 | Sri G.C. Das | B.Tech. (Civil), NIT Durgapur | Retired GM, SECL, Planner (Civil Engineering & Tender Evaluation) | 38 years |

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|----|----------------------------|---|---|----------|
| 11 | Sri P.K.Basu | B.Tech. (Mech.), NIT Durgapur | Retired GM, CMPDI/ CIL, Planner (Mech. Engineering) | 38 years |
| 12 | Sri A. Choudhury | B.E. (Mech.), B.E. College, Shibpur, Howrah | Retired GM, CMPDI/ CIL, Planner (Mech. Engineering) | 37 years |
| 13 | Sri Anjan Roy | B.E. (Electrical), B.E. College, Shibpur, Howrah | Retired GM, SECL, Planner (Electrical Engineering) | 37 years |
| 14 | Sri Arun Kumar Chatterjee | B.Tech. (Electrical), Jadavpur Engg. College, Kolkata | Retired GM, CMPDI, Planner (Electrical Engineering) | 36 years |
| 15 | Sri A.K.Mukherjee | Dip. (Mining), Bhaga Inst. of Mining, Dhanbad | Retired DGM, CMPDI, Planner (Opencast Mining) | 38 years |
| 16 | Sri A.K.Ghosh | B.E. (Electrical), B.E. College, Shibpur, Howrah | Retired GM, CMPDI, Planner (Electrical Engineering) | 36 years |
| 17 | Sri Debabrata Ghosh | B.Sc Hons. (Applied Geo-physics), M.Sc. Geo-physics, Ph.D. , ISM, Dhanbad | Retired Director, GSI, Advisor (Geo-physical logging, Resistivity survey & Magnetic survey) | 42 years |
| 18 | Sri Sibabrata Bhattacharya | M.Sc. (Applied Geology), Jadavpur University, Kolkata | Retired DGM, CMPDI, Advisor (Geology) | 43 years |
| 19 | Sri Tuserendra Mohan Basu | B.Com, ACA (ICAI) | Retired DGM, CMPDI, Planner (Economic Evaluation) | 38 years |
| 20 | Sri J. Nelson | M.Sc. (Geology), Annamalai University | Retired GM, CMPDI, Advisor (Hydro-geology) | 38 years |
| 21 | Miss Jayanti Ghosh | M.Sc. (Applied Geology), University of Calcutta | Geologist | 3 years |
| 22 | Sri Abhijit Jana | M.Sc. (Geology), University of Burdwan, W.B. | Geologist | 3 years |
| 23 | Sri Sougata Bandopadhyaya | M.Sc. (Applied Geology), BESU, Shibpur, Howrah | Geologist | 2 years |

- **OUR ASSOCIATE COMPANY**

- 1. M/s Maheswaree Mining Co.Pvt.Ltd.**

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P.O. Raniganj-713347 Dist.Burdwan.
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Website : www.maheswaree.com

- 2. San Survey Engineering**

465, Jiban Pal bagan,
3 No. Gate, Karbala (W),
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Mobile : 9433281778

- 3. SPS Geo Mining Solutions Private Limited**

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- 4. Geo Consultants Associates,**

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- 5. Techno Environ Engineers**

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Telephone : 033 25350131
Mobile : 9088919330

All the associated companies are having expertise in the fields of the following activities:

- Liaison -
 - Government of India
 - State Government
 - Central and State PSU/PSEs
 - Private Companies
 - Overseas Government and Companies
- Technical Services
 - Core Drilling of Boreholes
 - Preparation of GR
 - Mine Plan Preparation and approvals
 - Environmental Clearances – including preparation of EIA/EMP studies.
 - Forestry Clearances
 - Preparation of FR and DPRs
- Financial Closure (FC)
- Other Statutory Clearances
- Trade & Transmission

● **CLIENTS OF IMPCON & ASSOCIATE COMPANIES**

M/s Indiabulls Power Ltd

M/s Bankura DRI Mining & Manufacturers Co. Pvt. Ltd

M/s Naresh Kumar and Company Private Ltd.
M/s Super Smelters Limited
M/s Gondwana Geotech Services Ltd
M/s GMR Consulting Services Private Limited.
M/s Meghalaya Fuels Limited
M/s Maheshwari Mining(P) Limited.
M/s EMTA Group of Companies
M/s PANEM Coal Mines Limited
M/s Neelachal Iron & Power Ltd
M/s Indian Mining Consultancy Pvt. Ltd
M/s MSP Sponge Iron Limited
M/s Moira Madhujore Coal Limited.
M/s Shyam Metalics and Energy Limited
M/s Joy Mining Services India Pvt Ltd.
M/s Simplex Infrastructures Limited.
M/s Sunflag Power Ltd.

● **OUR INTERACTION**

Indian Bureau of Mines, Government of India (IBM)
Ministry of Mines, Government of India (MOM)
Ministry of Coal, Government of India (MOC)
Ministry of Environment & Forests, Govt. of India (MOEF)
Central Ground Water Authority, Government of India (CGWA)
Department of Mineral Resources, Government of Chhattisgarh
Directorate of Geology & Mining, Govt. of WB ,Jharkhand,
Maharashtra & Orissa

● **OUR COMMITMENT**

- Assisting our Valued Clients to Wider Business opportunity
- Experienced Professionals with appropriate expertise to view any project from thought to finish
- Report content with factual findings, technical excellence and clarity
- Timely completion at most competitive cost of project report formulation
- Guiding the Stakeholder towards a greater confidence in achieving the target of production with profitability.

- **CONTACT US**

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