



**Natural Resource Consulting, UK** (NRC) in association with  
**Alcock Technology Services, India** (ATS) is pleased to offer  
bespoke end-to-end

# **EXPLORATION CONSULTING SERVICES**

*for the Indian Junior Exploration Industry*

*“New Australia” waiting  
to be unearthed..*

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## Background

### India is...

- ✓ The world's largest democracy with a long history of political stability
- ✓ The 5th largest economy in the world
- ✓ The world's fastest growing major economy
- ✓ Closely aligned with major western global powers
- ✓ The home of the 8th largest stock market in the world
- ✓ One of the largest global markets for a wide range of minerals
- ✓ Geologically very similar to Australia, the mineral giant

### Yet India...

- ✓ Contributes a small fraction of the global mineral output
- ✓ Has very few private exploration companies in country
- ✓ Has large unexplored mineral exploration acreage
- ✓ Requires significant development of the junior mining industry

COUNTRY	% SHARE IN GLOBAL EXPLORATION BUDGET
Canada	14%
Australia	13%
USA	7%
Others (Including India)	3%

*The opportunity lies in bridging the gap!*



## Background

### Landmark initiatives of the government of india to enhance private investment in india's mineral exploration sector

- Mines & Mineral Development & Regulation (MMDR) Act was amended in 2015 to bring in transparency and fairness in the block allocation process, through an objective block auction exercise, with a focus to encourage private participation.
- A National Mineral Exploration fund was created through the development of National Mineral Exploration Trust (NMET) in 2015 to provide Government funding to private companies for exploration of India's Mineral Resources.
- National Mineral Exploration Policy (NMEP) was approved in 2016 to expedite exploration activities in the country through enhanced participation of the private sector. Salient features of NMEP include:
  - i* Development of baseline geophysical data all over the country through National Airborne Geophysical Mapping Program (NAGMP), National Geophysical Mapping Program (NGMP) etc. More than 1 million line km of airborne data has already been collected under NAGMP and planning for much larger areas is currently well underway.
  - ii* Development of National Data Repository (NDR) to collate all baseline and mineral exploration information.
  - iii* Auctioning of exploration blocks for private sector on a revenue sharing basis.
  - iv* Provisions for inviting private investment in exploration through attractive revenue models.
  - ✓ Establishment of National Center for Mineral Targeting (NCMT) to address challenges in mineral exploration.
- The National Mineral Policy (NMP) was formulated in 2019 to make suitable improvements/amendments with a view to cut red tape and make the mineral sector regulations more effective and business friendly, especially for the private sector.

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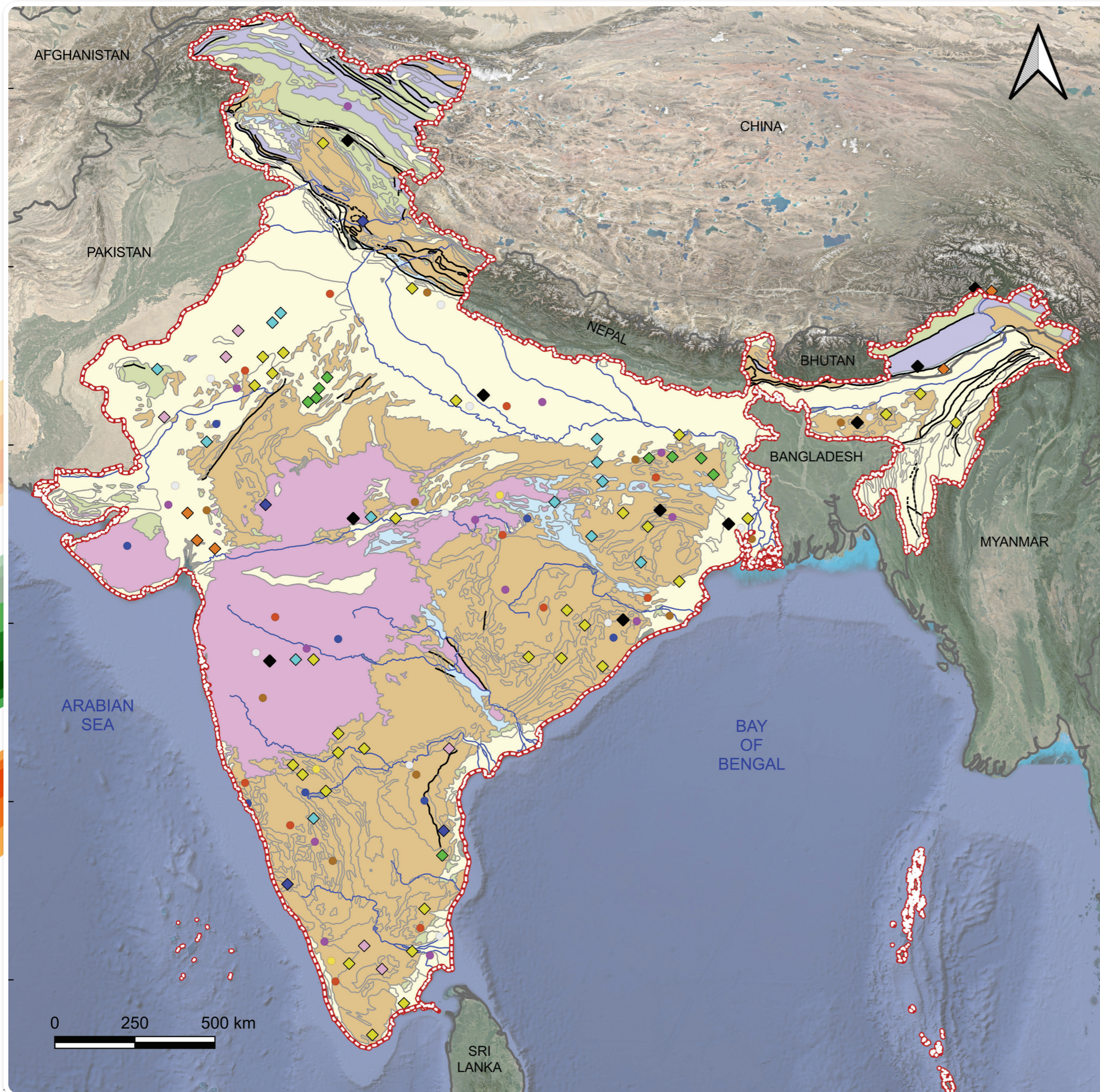
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

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## Geological Units and Mineral Occurrences of India









### Geological units

-  Cenozoic rocks
-  Cenozoic and Mesozoic rocks
-  Mesozoic rocks
-  Mesozoic and Paleozoic rocks
-  Paleozoic rocks
-  Precambrian rocks

### Mineral occurrences

-  Lead, Zinc
-  Copper
-  Bauxite
-  Iron
-  Manganese
-  Gold
-  Limestone
-  Mica
-  Dolomite
-  Asbestos
-  Gypsum
-  Coal
-  Petroleum and natural gas

### Linear objects

-  Contacts
-  Faults
-  Inferred faults
-  Rivers
-  National boundary of India
-  Other national boundaries

### References

- 1) National boundary of India - <https://www.surveyofindia.gov.in/>
- 2) World admin. boundaries - <https://public.opendatasoft.com/>
- 3) South Asia: geology, linear objects - <https://doi.org/10.3133/ofr97470C>
- 4) Mineral occurrences - <https://www.mapsofindia.com/maps/minerals/>
- 5) Google satellite image - <http://www.earth.google.com>



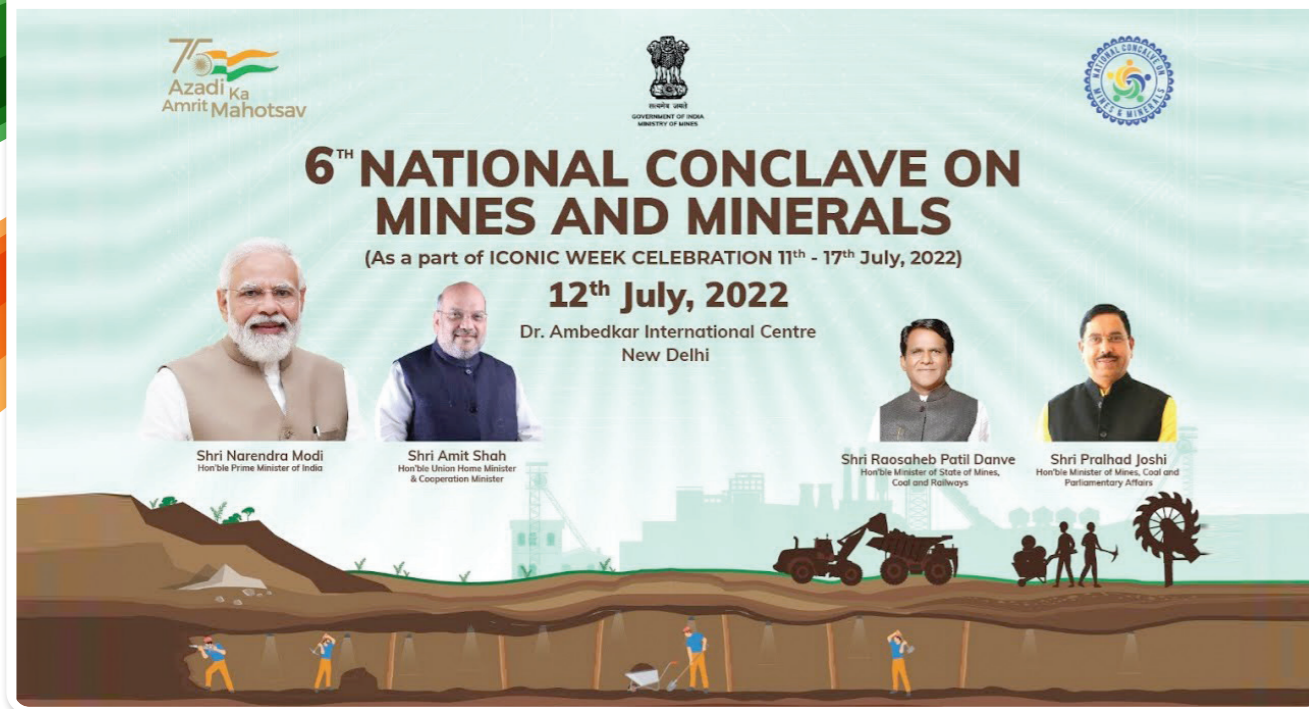
## Scope of Services

NRC is uniquely positioned to provide bespoke end-to-end consulting services to enable International Junior Mining Companies to establish a presence, as well as secure and expand their exploration footprint, in the Indian Junior Exploration Market.

**NRC will provide services in two phases:**

### Phase 1

- Organizing Junior Miners' Conclaves involving all key stakeholders.
- Providing detailed legal and administrative understanding of the Indian Mineral Exploration Scenario.
- Organizing networking events involving strategic players.
- Organizing one-on-one meetings with Industry Decision Makers in both Government and private sectors.
- Providing access to Geoscientific data/reports available in country to make preliminary assessment.



## Scope of Services

Phase 2 will be applicable for those junior mining companies that decide to proceed with exploration block auctions/acquisitions in India post the completion of Phase 1 interactions.

**Services to be provided by NRC in this phase will include the following:**

### Phase 2

- Technical advice and support in acquisition, processing, integration and interpretation of new/existing geophysical/geological data in India, as per international standards and specifications.
- Legal and Administrative Support for setting up local companies for foreign juniors in India, including obtaining all necessary documentation for making such local companies compliant to bid for exploration block auctions in country.
- Negotiations with prospective local partners on behalf of the foreign juniors, if applicable.
- In the event the juniors are successful in winning exploration block(s), providing all local operational and logistics support, including facilitating all permits and clearances required from Central and State Governments, to carry out the exploration activities, field logistics, customs clearances etc.
- In the event the exploration block(s) yield proven subsurface reserves, providing local investment banking support in finding suitable investors for the juniors to exit the block.

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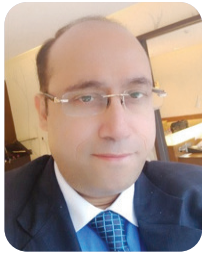
## Senior Management



**Tim Archer**

*Director & Chief  
Executive Officer, NRC*

- Well reputed commercial geophysicist with 25+ years of international experience
- Technical expertise in a wide range of geophysical techniques for natural resource exploration
- Work experience in diverse cultures on six continents for a range of mineral targets in various geological settings
- Currently runs a highly acclaimed and bespoke geophysical consulting company out of the UK



**Sudipto Mukerji**

*Director, NRC &  
Managing Partner, ATS*

- 15+ years of entrepreneurial experience in natural resource exploration with a particular focus on India
- Pioneered the first Indian Private Sector airborne geophysical survey company in 2005
- Carried out the first airborne multiclient surveys in India in 2008
- More than 2 Million Line Km of geophysical survey experience worldwide



**David Ovadia MBE**

*Principal Management  
Adviser*

- 40+ years of mineral exploration experience across diverse cultures and countries
- Ex-Director of British Geological Survey
- Honoured with the MBE title by Her Majesty Queen Elizabeth II for his outstanding contributions to the global mineral exploration community
- Currently advising Governments & International Mining Institutions to develop effective exploration policies

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