Our DNA

1959
Established as Central Engg. & Design Bureau, Hindustan Steel Limited

1973
Multi-disciplinary DEC, PMC and EPC organization

Successfully completed over 3500 Consultancy and EPC assignments

Incorporated as Independent company under Ministry of Steel, GoI
MECON Limited, is India’s frontline engineering consultancy and contracting organization, offering full range of services required for setting-up of Project from Concept to Commissioning including Turnkey Execution.
NETWORK OF OFFICES (INDIA)

- NEW DELHI
- AGRA
- ROURKELA
- BOKARO
- DURGAPUR
- KOLKATA
- JODHPUR
- NAGARNAR
- BURNPUR
- DUBURI
- BHUBANESWAR
- JABALPUR
- BHILAI
- VADODRA
- DONIMALAI
- CHENNAI
- NEYVELI
- KANNUR
- KOCHI
- BANGALORE
- VIZAG
- KIRANDUL
- NEMMELLI
- TUTICORIN
- BURNPUR
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- JABALPUR
- BHILAI
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- CHENNAI
- NEYVELI
- KANNUR
- KOCHI
- BANGALORE
- VIZAG
- KIRANDUL
- NEMMELLI
- TUTICORIN
MECON IN MINING
OUR SERVICES FOR MINING PROJECTS

Geology
- Exploration planning & supervision
- Ore body modelling & resource estimation
- GR preparation
- Bulk sampling for beneficiation testing

Mining
- Mine Planning & Design
- Executable mine plans
- Due diligence & Asset Evaluation
- Tendering Services, TAS & DGPS Survey
- Mining reports for statutory clearances

Ore processing
- Ore Processing & Beneficiation Flow sheet & plant layout
- Detailed Engineering
- Tendering services
- Project management & monitoring

Environment
- Regional EIA studies
- EIA/EMP for obtaining EC by SEIAA/MoEFCC
- Carrying capacity & Sustainable Dev. study
- Env. Audit, Env. Statement & Env. Mgt. Systems, ISO:14001
MECON IN MINING

• Rendering Consultancy and Engineering Services since Last Five Decades.

• Experience of successfully completing >300 Mining Projects covering almost all the minerals.

• Providing single window solution for a mining project almost for all minerals.

• Obtained approval of >50 Mining plans and >100 Mining EIA Projects.

• Provided hand holding services for State Governments of Andhra Pradesh, Jharkhand, Madhya Pradesh and Rajasthan ... 
  - TAS for 21 Mineral Blocks (Tendering & Re-Tendering)
  - DGPS Survey for 19 Mineral Blocks

• Bid Advisory Services in Coal Auction – 9 Blocks for SAIL & 2 Blocks for RINL

• Bid Advisory Services in Mineral Auction – 2 Blocks for NMDC
RANGE OF SERVICES IN MINING DIVISION

• Exploration Planning & Supervision
• Geological Report
• Mine Plan & PMCP
• Final Mine Closure Plan
• Feasibility Studies
• Detailed Project Report
• Design & Engineering
• Tendering Services

• Project Management
• Asset Evaluation Study
• TAS for Coal/Mineral Auction
• DGPS Survey for Mineral Blocks
• EIA/EMP Studies
• R & R Studies
• Benchmarking Study
• Technical due Diligence
OUR KEY TECHNOLOGICAL PARTNERS

• MoU With Mineral Exploration Corporation Limited and tie-up with survey agencies for Survey & Exploration Activities.

• MoU With Central Mining Institute - GIG, Poland for Planning & Design of Underground Coal Mines and Coal Washery Technology.

• General MoU with Mining Plus, Australia for Planning & Design of Underground Metal Mines.

• MoU with ITASCA, USA for Underground Mining

• MoU with ENESSTEE Engineering for Coal Washery Projects
SOFTWARE COMPETENCY

SURPAC & DATAMINE:
• Ore body modeling
• Geo-statistical analysis
• Reserve & grade estimation
• Open cast and underground mine design
• Long term & short term mine planning

MINEX:
• Coal seam modeling
• Open cast and underground mine design
• Coal production scheduling
• Waste dump planning

MINE SCHEDULER:
• Production scheduling

WHITTLE:
• Pit optimization

USIMPAC & JK SimMet
• Design & optimization of beneficiation process flow.
TRANSACTION
ADVISORY
SERVICES FOR
MINERAL BLOCKS
MECON HAS PROVIDED TRANSACTION ADVISORY SERVICES FOR THE FOLLOWING:

1. STATE GOVT. OF RAJASTHAN
2. STATE GOVT. OF MADHYA PRADESH
3. STATE GOVT. OF JHARKHAND
### ASSOCIATION OF MECON WITH STATE GOVT. OF RAJASTHAN FOR AUCTION OF MINERAL BLOCKS FOR TAS

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Block Details</th>
<th>Mineral</th>
<th>Lease</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Sindwari-Ramakhera-Satkhanda Block-A, Tehsil-Nimbahera, Dist. Chittorgarh</td>
<td>Limestone</td>
<td>ML</td>
<td>Tendering &amp; Retendering</td>
</tr>
<tr>
<td>2</td>
<td>Sindwari-Ramakhera-Satkhanda Block-B, Tehsil-Nimbahera, Dist. Chittorgarh</td>
<td>Limestone</td>
<td>ML</td>
<td>Tendering &amp; Retendering</td>
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<tr>
<td>3</td>
<td>Harima-Pithasar-3D, Tehsil, Dist. Nagaur</td>
<td>Limestone</td>
<td>ML</td>
<td></td>
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<tr>
<td>4</td>
<td>Nagaur-3B1(a) Deh, Dist. Nagaur</td>
<td>Limestone</td>
<td>ML</td>
<td>Tendering &amp; Retendering</td>
</tr>
<tr>
<td>5</td>
<td>Nagaur-3B1(b) Deh, Dist. Nagaur</td>
<td>Limestone</td>
<td>ML</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Srinagar-Mohanpura-Pharkiya, Dist. Ajmer</td>
<td>Copper &amp; Associated Minerals</td>
<td>CL</td>
<td>Tendering &amp; Retendering</td>
</tr>
</tbody>
</table>
ASSOCIATION OF MECON WITH STATE GOVT. OF MADHYA PRADESH FOR AUCTION OF MINERAL BLOCKS FOR TAS

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Block Details</th>
<th>Mineral</th>
<th>Lease</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Bandarkha Block, Amarpatan, Dist. Satna</td>
<td>Limestone</td>
<td>ML</td>
<td>Tendering &amp; Retendering</td>
</tr>
<tr>
<td>2</td>
<td>Ghuinsa Block, Amarpatan, Dist. Satna</td>
<td>Limestone</td>
<td>ML</td>
<td>Tendering &amp; Retendering</td>
</tr>
</tbody>
</table>
ASSOCIATION OF MECON WITH STATE GOVT. OF JHARKHAND FOR AUCTION OF MINERAL BLOCKS FOR TAS

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Block Details</th>
<th>Mineral</th>
<th>Lease</th>
<th>Tender Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Hariharpur Lem Bicha, Block I</td>
<td>Limestone</td>
<td>CL</td>
<td>Block awarded</td>
</tr>
<tr>
<td>2</td>
<td>Hariharpur Lem Bicha, Block II</td>
<td>Limestone</td>
<td>CL</td>
<td>Block awarded</td>
</tr>
<tr>
<td>3</td>
<td>Pahardiha Gold Block, West Singhbhum</td>
<td>Gold</td>
<td>CL</td>
<td>Retendered &amp; Block awarded</td>
</tr>
<tr>
<td>4</td>
<td>Parasi Gold Block, Ranchi</td>
<td>Gold</td>
<td>ML</td>
<td>Annulled</td>
</tr>
</tbody>
</table>
## SALIENT FEATURES OF MINERAL AUCTION RULES 2015

<table>
<thead>
<tr>
<th>Parameters</th>
<th>ML &amp; CL (PL cum ML)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Applicability</strong></td>
<td>All minerals except notified minor minerals</td>
</tr>
</tbody>
</table>
| **Pre-requisite for Auction**| Establishing the mineral contents in such area in accordance with the provisions of the Minerals (Evidence of Mineral Contents) Rules, 2015.  
Area demarcated by State Govt. using total station & DGPS survey & classifying area into Forest land, Govt. land & land not owned by State Govt. |
| **Eligibility**             | Successful bidder selected based on Net Worth of the bidders                       |
|                             | State Govt. may reserve a mine / mines for specified end use                       |
| **Bidding Parameter**       | Reserve Price (RP) : Minimum % of value of mineral despatched (mv)                 |
|                             | mv = Mineral despatched in a month x IBM sale price (gr-wise/state-wise)           |
|                             | Bidder shall quote such % (>= RP) for payment to State Govt.                       |
BIDDING PROCESS (ML & CL)

NIT by State Govt
Area details using total station & DGPS survey (Forest/Govt/not owned by State Govt)
Est. mineral resources/ evidence of mineral

Bid doc (State Govt)
GR as per evidence of mineral content rules

Revenue survey details of the area using total station & DGPS survey (Forest/Govt/not owned by State Govt)

Time to Bidders
Fixed period to bidders as notified by State Govt. to study tender document /reports.

Commencement of bidding process thereafter.

Ascending forward online e-auction
1st round
Technical bid by bidder to confirm eligibility, bid security etc.
IPO (% of value of mineral despatched)

2nd round
Top 50% or 5 technically qualified bidders.
FP: H1 IPO of technically qualified bidders.
Qualified bidder with H1 FPO: Preferred bidder.
GRANT OF ML

1. **1st instalment** (10%) upfront payment by preferred bidder
   - LOI by State Govt to preferred bidder

2. **Considered as successful bidder upon:**
   - Eligibility compliance
   - 2nd instal. (10%) upfront payment
   - Performance security
   - Mining plan

3. **MDPA between successful bidder & State Govt. upon all consents / approvals, etc.**
   - 3rd instal. (80%) upfront payment

**Grant of ML**
- ML deed execution by State Govt. Within 30 days
- Date of registration of executed ML deed: Date of commencement of ML

**Upfront payment for ML:** 0.5% of value of estimated resources
- Upfront payment made to State Govt. adjusted within 1st 5 yrs of commencement of mineral production.

**Performance security for ML:** 0.5% of value of estimated resources
- Adjusted every 5 yrs to maintain 0.5% of reassessed value of resource.
PAYMENTS TO BE MADE BY LEASE HOLDER

• Royalties and dead rent to the State Government.

• Payment on monthly basis to State Government based on amount quoted for winning the block

• Amount as per the Mines and Mineral Amendment Act 2015 under the head of
  a. National Mineral Exploration Trust (NMET)
  b. District Mineral Foundation (DMF)

• Any other amounts as may be required under any law for the time being in force to the concerned authorities.
Mining Lease holder shall complete detailed exploration (G1 level) and prepare a Detailed Feasibility Report conforming to Part IV & V of the Mineral (Evidence Of Mineral Contents) Rules, 2015 over the entire area under ML, within a period of five years from the date of commencement of such mining lease.
1. Eligibility criteria based on the end use, Auction schedule viz. date of NIT, Bid due date, date of 1st and 2nd round of Auction etc.

2. Information Memorandum (IM)

3. Reserve Price
INPUT FOR INFORMATION MEMORANDUM (IM)

1. Geological Report of the concession area

2. Indicative lists of clearances & permissions for commencing mining operation

3. Estimated mineral resources found in the concession area

4. Precise geo-referenced map of the concession area incl. details of land.
DIFFERENTIAL GLOBAL POSITIONING SYSTEM (DGPS SURVEY)
MECON HAS CARRIED OUT DGPS SURVEY FOR THE FOLLOWING:

1. STATE GOVT. OF ANDHRA PRADESH
2. STATE GOVT. OF MADHYA PRADESH
3. STATE GOVT. OF JHARKHAND
DGPS Survey for Govt. of Andhra Pradesh

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Block Details</th>
<th>Area (ha)</th>
<th>Mineral</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Gudipadu Block, Dist. Anantapur</td>
<td>41.460</td>
<td>Lime Stone</td>
</tr>
<tr>
<td>2</td>
<td>Pulipadu Block, Dist. Guntur</td>
<td>500.000</td>
<td>Lime Stone</td>
</tr>
<tr>
<td>3</td>
<td>Mittagudipadu Block, Dist. Guntur</td>
<td>1059.750</td>
<td>Lime Stone</td>
</tr>
<tr>
<td>4</td>
<td>Pillutla Block I, Dist. Guntur</td>
<td>40.194</td>
<td>Lime Stone</td>
</tr>
<tr>
<td>5</td>
<td>Pillutla Block II, Dist. Guntur</td>
<td>165.917</td>
<td>Lime Stone</td>
</tr>
<tr>
<td>6</td>
<td>Pillutla Block III, Dist. Guntur</td>
<td>22.672</td>
<td>Lime Stone</td>
</tr>
<tr>
<td>7</td>
<td>Pillutla Block IV, Dist. Guntur</td>
<td>36.042</td>
<td>Lime Stone</td>
</tr>
<tr>
<td>8</td>
<td>Pillutla Block V, Dist. Guntur</td>
<td>55.000</td>
<td>Lime Stone</td>
</tr>
<tr>
<td>9</td>
<td>Chigargunta, Kuppam, Dist. Chittoor</td>
<td>219.500</td>
<td>Gold</td>
</tr>
<tr>
<td>10</td>
<td>Bisanatham, Dist. Chittoor</td>
<td>42.510</td>
<td>Gold</td>
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</table>
DGPS Survey for Govt. of Jharkhand

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Block Details</th>
<th>Area (ha)</th>
<th>Mineral</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Pahardiha Gold Block, West Singhbhum</td>
<td>279.609</td>
<td>Gold</td>
</tr>
<tr>
<td>2</td>
<td>Ramchandra Pahad Block, East Singhbhum</td>
<td>172.640</td>
<td>Copper</td>
</tr>
<tr>
<td>3</td>
<td>Dhubani Copper Block, East Singhbhum</td>
<td>184.966</td>
<td>Copper</td>
</tr>
<tr>
<td>4</td>
<td>Parasi Gold Block, Tamar, Ranchi</td>
<td>75.273</td>
<td>Gold</td>
</tr>
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</table>
### DGPS Survey for Govt. of Madhya Pradesh

<table>
<thead>
<tr>
<th>S. No.</th>
<th>Block Details</th>
<th>Area (ha)</th>
<th>Mineral</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Niwar Block, Tahsil – Dhimarkheda, Dist. Katni</td>
<td>33.140</td>
<td>Lime Stone</td>
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<tr>
<td>2</td>
<td>Bandarkha, Tahsil – Amarpatan, Dist. Satna</td>
<td>121.100</td>
<td>Lime Stone</td>
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<tr>
<td>3</td>
<td>Hatupur, Tahsil - Panna, Dist. Panna</td>
<td>150.018</td>
<td>Diamond</td>
</tr>
<tr>
<td>4</td>
<td>Nimarmunda Block, Tahsil – Hatta, Dist. Damoh</td>
<td>151.120</td>
<td>Lime Stone</td>
</tr>
<tr>
<td>5</td>
<td>Ghuinsa Block, Tahsil – Amarpatan, Dist. Satna</td>
<td>68.849</td>
<td>Lime Stone</td>
</tr>
</tbody>
</table>
MECON IN TRANSACTION ADVISORY SERVICES

DGPS SURVEY – GROUND CONTROL POINTS PHOTOGRAPHS OF BISANATHAM GOLD BLOCK OF ANDHRA PRADESH STATE
MECON IN TRANSACTION ADVISORY SERVICES

DGPS SURVEY – GROUND CONTROL POINTS PHOTOGRAPHS OF CHIGARGUNTA GOLD BLOCK OF ANDHRA PRADESH STATE
MECON IN TRANSACTION ADVISORY SERVICES

DGPS SURVEY – GPS POINTS PHOTOGRAPHS OF PAHARDIHA GOLD BLOCK OF JHARKHAND STATE
MECON IN TRANSACTION ADVISORY SERVICES

DGPS SURVEY – GPS POINTS PHOTOGRAPHS OF PAHARDIHA GOLD BLOCK OF JHARKHAND STATE
MECON IN TRANSACTION ADVISORY SERVICES

DGPS SURVEY – GPS POINTS PHOTOGRAPHS OF RAMACHANDRA PAHAD COPPER BLOCK OF JHARKHAND STATE
Thank You!

MECON LIMITED

(A Government of India Enterprise)

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