The meeting of Coordination-cum-Empowered Committee (CCEC) on Mineral Development and Regulation was held under the chairmanship of the Union Secretary (Mines) on 15th December, 2015 at 11:00 am in Aluminum Room, Shastri Bhawan, New Delhi. The list of participants is given at Annexure-I.

2. The Union Secretary (Mines), at the outset, welcomed all the participants and thereafter lauded the efforts of the State Governments, which have issued the Notice Inviting Tender (NIT) for auction of mineral blocks and urged the other State Governments to take prompt action to expedite mineral auctions in their states.

   [Action: State Governments]

3.1 Union Secretary (Mines) invited Shri Vivek Bhardwaj, Joint Secretary, Ministry of Coal to share the experiences of coal mine auctions. The Joint Secretary, Ministry of Coal made a presentation outlining the challenges faced (a) during the drafting of ordinance and rules made thereunder, (b) prior to the auctions and (c) during implementation. He advised that certain important matters need to be taken care while auctioning the mineral blocks to ensure smoother and successful conduct of auction. The presentation is enclosed as Annexure –II.

3.2 Union Secretary (Mines) suggested that based on the experiences in Coal Auctions by Ministry of Coal in the pre-auction and post-auction processes, a “Do’s & Don’ts” may be prepared and circulated to the States.

   [Action: State Governments, SBICAP, & M IV, MoM]

4.1 Union Secretary (Mines) then invited Shri T P Singh, director of Bhaskaracharya Institute for Space Applications and Geo-Informatics (BISAG) to make a presentation on monitoring mining statistics and checking illegal mining. Presentation slides are attached as Annexure –III. Salient points of the presentation are as follows:

   a) Technology support will be provided free of cost by DAETY for geo-referencing of mining areas through satellite imagery; to start with he offered that at least one block per state will be geo-referenced on pilot basis.

   b) Presentation highlighted application of geo-informatics in mining sector in order to make GIS based Decision Support System.
4.2 The Union Secretary (Mines) asked IBM to give details of mining leases of at least 1 block each of Chhattisgarh and Rajasthan within a week to Sri T.P Singh, Advisor, DETTY & Director- BISAG for preparation of a pilot GIS solution for checking illegal mining using remote sensing data.

[Action: IBM, State Governments of Chhattisgarh and Rajasthan, Director- BISAG & M I, MoM]

5.1 The Union Secretary (Mines) then invited Government of Odisha to make a presentation on National Mineral Statistics, a mobile based application that facilitates aggregation of mineral production and sale statistics. Salient points are as follows:

a) National Mineral Statistics has been developed to capture various data online like mineral production, recovery, despatch, sale price etc. of each grade of each mineral.

b) Each lessee is required to upload daily data relating to mineral production, despatch, sale etc. With implementation of this system, aggregation of mineral statistics across a particular state or across the country could be achieved on real time basis and eventually there may not be need for physical returns to be filed by the lessees.

c) Besides the mobile app, the data entry may be made from online through web application as well. The existing IT systems of States may be integrated with it to extract the data already being captured.

d) This system would facilitate online calculation of Average Sale Price by IBM. This may also help in easy reconciliation between collection of NMET and DMF amounts with the production data. The information generated by this system may provide assistance in strengthening the collection system of Royalty, NMET and DMF amounts.

5.2 Union Secretary (Mines) advised the State Governments to adopt the system which has been develop by Odisha Government. The representatives of the State Governments appreciated the mobile application and gave unanimous consent for its implementation. The representative of State Government of Odisha also gave his in principle consent to share the same mobile/web application to be used without any fee, by IBM for other States also. Union Secretary (Mines) asked the Ministry officials & IBM to coordinate with Govt. of Odisha for expediting the implementation of Mobile App for online mineral statistics throughout the country.

[Action: IBM, State Governments of Odisha, Other State Governments, & M III, MoM]

6.1 Union Secretary (Mines) lauded the efforts of the 6 State Governments, namely Gujarat, Rajasthan, Maharashtra, Karnataka, Jharkhand & Chhattisgarh, which have issued the Notice Inviting Tender (NIT) for auction of mineral blocks and pointed out that some State Governments are still lagging behind. He asked the State Governments of MP, Odisha & AP to expedite and issue the NITs of mineral blocks identified for the 1st phase of auction
at the earliest. He also expressed deep concern about the delay in notifying the leftover blocks identified for the 1st phase of auction viz. 8 blocks by Rajasthan, 6 blocks by Maharashtra & 2 blocks by Jharkhand.

[Action: State Governments, SBICAP, & M IV, MoM]

6.2 The Union Secretary (Mines) sought status from the State Government representatives regarding preparedness for auction of mineral blocks and likely timeline when NIT may be issued. Summary of the same is in the following table:

<table>
<thead>
<tr>
<th>State</th>
<th>NIT Published</th>
<th>Dec 2015</th>
<th>Jan 2016</th>
<th>Total</th>
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<td>-</td>
<td>7</td>
<td>-</td>
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<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
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<tr>
<td>Gujarat</td>
<td>5</td>
<td>-</td>
<td>3</td>
<td>8</td>
</tr>
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<td>Jharkhand</td>
<td>3</td>
<td>1</td>
<td>2</td>
<td>6</td>
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<td>11</td>
<td>3</td>
<td>-</td>
<td>14</td>
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<td>-</td>
<td>3</td>
<td>-</td>
<td>3</td>
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<tr>
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<td>4</td>
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<td>Tamil Nadu</td>
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<tr>
<td>Telangana</td>
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<td><strong>Total</strong></td>
<td><strong>31</strong></td>
<td><strong>18</strong></td>
<td><strong>17</strong></td>
<td><strong>66</strong></td>
</tr>
</tbody>
</table>

[Action: State Governments, SBICAP, & M IV, MoM]

7.1 The Union Secretary (Mines) discussed how exploration activities under the ambit of National Mineral Exploration Policy could be expedited to attract wider participation of private sector players and junior miners.

7.2 He suggested that some 50 Obvious Geological Potential (OGP) areas may be identified with the assistance of GSI and global players for exploration on a pilot basis. Representatives from State Governments were asked to make their suggestions regarding the same.

[Action: State Governments & M I, MoM]

8. The Union Secretary (Mines) asked the State Government representatives to give the status of notification of DMF rules and constitution of DMF in their States. The State Governments should expedite constitution of DMF and start collecting fund towards DMF and also towards NMET. The summary of responses of the State Governments is placed as Annexure-IV.
9. The Union Secretary (Mines) sought the status regarding notification of Minor Mineral Concession Rules by respective State Governments emphasising two important concerns relating to minor minerals concession grant and regulation, viz. (i) fair and transparent process for grant of mineral concessions through auction and (ii) production caps for minor minerals in order to check illegal mining.

10. The Union Secretary (Mines) further sought the status regarding pending cases relating to deemed extension of mining leases from the State Government representatives. He emphasised that pending cases should be resolved expeditiously.

11. In concluding remark, the Union Secretary (Mines) suggested to convene a meeting of other states such as Uttar Pradesh, Bihar, Punjab etc. which were not present in this meeting, in order to know their issues and concerns relating to major and minor minerals.

12. The meeting ended with thanks to the Chair.

List of Annexures

Annexure I: List of Participants
Annexure II: Presentation slides by Shri Vivek Bhardwaj, JS, MoC
Annexure III: Presentation slides by Shri T P Singh, Advisor, BISAG
Annexure IV: Establishment of DMF

Total 4 Annexures:
Annexure I (2 pages)

Annexed to Minutes of the Co-ordination Cum Empowered Committee (CCEC) meeting on 15th December, 2015 at Aluminum Room, Shashtri Bhawan, New Delhi, chaired by Union Secretary (Mines), Shri. Balvinder Kumar.

<table>
<thead>
<tr>
<th>Ministry/ Organization</th>
<th>Name</th>
<th>Designation</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ministry of Mines</td>
<td>Shri Balvinder Kumar</td>
<td>Secretary</td>
<td><a href="mailto:secy-mines@nic.in">secy-mines@nic.in</a></td>
</tr>
<tr>
<td></td>
<td>Shri R. Sridharan</td>
<td>Additional Secretary</td>
<td><a href="mailto:as_mines@nic.in">as_mines@nic.in</a></td>
</tr>
<tr>
<td></td>
<td>Shri Sudhaker Shukla</td>
<td>Economic Adviser</td>
<td><a href="mailto:shuklas@nic.in">shuklas@nic.in</a></td>
</tr>
<tr>
<td></td>
<td>Dr. N.K. Singh</td>
<td>Joint Secretary</td>
<td><a href="mailto:jse-mines@nic.in">jse-mines@nic.in</a></td>
</tr>
<tr>
<td></td>
<td>Shri Rokhum Lalremruata</td>
<td>Director</td>
<td><a href="mailto:rokhum.I@nic.in">rokhum.I@nic.in</a></td>
</tr>
<tr>
<td></td>
<td>Shri Prithul Kumar</td>
<td>Director</td>
<td><a href="mailto:pritul.kumar@nic.in">pritul.kumar@nic.in</a></td>
</tr>
<tr>
<td></td>
<td>Shri Joyesh Bagchi</td>
<td>Director</td>
<td><a href="mailto:dirtech.mom@nic.in">dirtech.mom@nic.in</a></td>
</tr>
<tr>
<td></td>
<td>Shri Adhir kumar Mallik</td>
<td>Under Secretary</td>
<td><a href="mailto:ak.mallik@nic.in">ak.mallik@nic.in</a></td>
</tr>
<tr>
<td>Ministry of Coal</td>
<td>Shri Vivek Bharadwaj</td>
<td>JS MOC</td>
<td><a href="mailto:vivek.b@nic.in">vivek.b@nic.in</a></td>
</tr>
<tr>
<td>IBM, Nagpur</td>
<td>Shri R.K. Sinha</td>
<td>Controller General</td>
<td><a href="mailto:cg@ibm.gov.in">cg@ibm.gov.in</a></td>
</tr>
<tr>
<td>MECL</td>
<td>Shri Yogesh Sharma</td>
<td>GM (BD &amp;P)</td>
<td><a href="mailto:yogesh21@hotmail.com">yogesh21@hotmail.com</a></td>
</tr>
<tr>
<td></td>
<td>Dr. Anjani Kumar</td>
<td>Sr. Manager (Geology)</td>
<td><a href="mailto:anjani_kumar1957@yahoo.co.in">anjani_kumar1957@yahoo.co.in</a></td>
</tr>
<tr>
<td>Department of Atomic Energy</td>
<td>Dr. A.K. Rai</td>
<td>Additional Director</td>
<td><a href="mailto:amdhd@ap.nic.in">amdhd@ap.nic.in</a></td>
</tr>
<tr>
<td>SBI CAP</td>
<td>Shri S. V. Prasad</td>
<td>Vice President</td>
<td><a href="mailto:sv.prasad@sbicaps.com">sv.prasad@sbicaps.com</a></td>
</tr>
<tr>
<td></td>
<td>Shri Amit Kumar</td>
<td>AVP</td>
<td><a href="mailto:amit.kumar@sbicaps.co.in">amit.kumar@sbicaps.co.in</a></td>
</tr>
<tr>
<td></td>
<td>Shri Gautam Agarwal</td>
<td>DM</td>
<td><a href="mailto:gautam.agrawal@sbicaps.com">gautam.agrawal@sbicaps.com</a></td>
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<tr>
<td></td>
<td>Ms Neha Soni</td>
<td>AVP</td>
<td><a href="mailto:neha.soni@sbicaps.com">neha.soni@sbicaps.com</a></td>
</tr>
<tr>
<td>MECON</td>
<td>Shri H.K. Bhanjdeo</td>
<td>Jt. General Manager</td>
<td><a href="mailto:hkbhanjdeo@meconlimited.co.in">hkbhanjdeo@meconlimited.co.in</a></td>
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<td>Andhra Pradesh</td>
<td>Shri K.C.L. Narsimha Reddy</td>
<td>Joint Director</td>
<td><a href="mailto:directormines@yahoo.co.in">directormines@yahoo.co.in</a></td>
</tr>
<tr>
<td>Chhattisgarh</td>
<td>Shri Anurag Diwan</td>
<td>Joint Director</td>
<td><a href="mailto:anuragdiwan@yahoo.com">anuragdiwan@yahoo.com</a></td>
</tr>
<tr>
<td>Goa</td>
<td>Mr. Amjad Tak</td>
<td>Secretary Mines</td>
<td><a href="mailto:amjad_tak@yahoo.com">amjad_tak@yahoo.com</a></td>
</tr>
<tr>
<td>Gujarat</td>
<td>Shri Dhruv R.B</td>
<td>Geologist, DMC</td>
<td><a href="mailto:dhruv_213@yahoo.com">dhruv_213@yahoo.com</a></td>
</tr>
<tr>
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<td>Director Geology</td>
<td><a href="mailto:dirgeojh@gmail.com">dirgeojh@gmail.com</a></td>
</tr>
<tr>
<td>Karnataka</td>
<td>Shri S.S. Pattana Shetti</td>
<td>Director</td>
<td><a href="mailto:dirmines@gmail.com">dirmines@gmail.com</a></td>
</tr>
<tr>
<td>Madhya Pradesh</td>
<td>Shri S.K. Shivani</td>
<td>Joint Director</td>
<td><a href="mailto:vinay.bhnwar@gmail.com">vinay.bhnwar@gmail.com</a></td>
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<tr>
<td></td>
<td>Shri N.K. Hans</td>
<td>Superintendent Geologist</td>
<td><a href="mailto:dirgeomn@mp.gov.in">dirgeomn@mp.gov.in</a></td>
</tr>
<tr>
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<td>Director</td>
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<td>Shri D.S. Maru</td>
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<td></td>
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Presentation slides by Shri Vivek Bhardwaj, JS, MoC

Coal Mines Auction – Key Challenges

Background

- Supreme Court of India cancelled the allocation of 204 coal blocks.
- Start of the auction process for Schedule II coal mines ï Tranche I; Vesting Order issued for 15 mines ï December-2014
- Start of the auction process for Schedule III coal mines ï Tranche II; Vesting Order issued for 11 mines ï January-2015
- Start of the allotment process for Schedule II & Schedule III coal mines; Allotment Order issued for 37 mines ï February-2015
- Start of the auction process for Schedule II & Schedule III coal mines ï Tranche III; Vesting Order issued for 2 mines - June-2015
- Start of the auction process for 9 Schedule III coal mines ï 4th Tranche ï November-2015
Key Challenges

- **Process Related Challenges**
  - Challenges faced prior to auction.
  - Challenges faced during the auction process.

- **Implementation Challenges**
  - Challenges faced post auction of coal mines.

---

**Process Related Challenges ..2**

- **Ensuring fair and transparent allocation of coal mines**
  - Information symmetry was ensured.
  - Pre-bid conferences were conducted.
  - Over 1,000 queries of bidders were addressed.
  - Entire auction process was conducted on an electronic platform with bidders remaining anonymous and their online bids were made visible on the auction platform in public domain on internet.

- **Ensuring maximum information dissemination within a limited time to the Bidders**
  - Massive amount of digitisation of reports, drawings etc. was carried out and made available through virtual database as part of the Tender Documents to the Bidders so that value maximisation could be achieved.
Process Related Challenges ..3

Ensuring adequate safeguard of bidders’ interest and attractiveness of coal mines to the bidders

- Clauses providing flexibility in terms of coal usage to Successful Bidder were added in the Act and the Rules.
- Clause pertaining to change in control of the Successful Bidder along with transfer of rights in relation to the mine was added.
- For ease of financing, enabling clause pertaining to creation of security over the coal mine through mortgage was added.
- In order to take care of future expansion of specified end use plants, bidders were allowed to bid for coal mines with extractable reserves up to 150% of 30 year coal requirement.
- It was specified in the Act that the liabilities of the prior allottee shall not be transferred to the Successful Bidder.

Process Related Challenges ..4

Technical/System related Issues

- Security Audit of MSTC’s web portal for e-auction of coal blocks was carried out through CERT-In empanelled agency.
- Bidders faced technical problems to understand the bidding process.
- The bidders provided wrong DSC Serial no. through authorization letter to MSTC which server did not accept.
- The computer/system of some of the bidders were not installed with driver of DSC.
- Java was not installed in the bidder’s systems, Active-X were not enabled, Pop-up Blocker was not disabled etc.
- Some of the bidders did not provide documents as per procedure provided in registration.
- One of the bidders did not attach the required documents to a particular mine.
Process Related Challenges ..5

➤ Complex evaluation process
  - Bids were linked to specific end use plants owned by the bidders which necessitated many checks to be incorporated on the auction platform.
  - Complex manual evaluation was also carried so that no bidder was permitted to participate in auctions beyond their end use plant coal requirement.
  - Utmost caution was exercised while evaluating bids and bids were evaluated as per TEC approved checklist.
  - Deviations were classified as substantive and non-substantive deviations by TEC and appropriate decision was taken.

Process Related Challenges ..6

➤ High stakes and immense scrutiny from media and other stakeholders
  - Entire auction process was carried out with utmost care and diligence in extremely challenging timelines to avoid any controversies.
  - The auction process received industry wide acclaim for efficient, timely and transparent conduct of auctions.
  - Need for Press Releases / Interaction.
Process Related Challenges

- **Litigation issues**
  - Bidders have approached court challenging certain clauses of the tender document say Initial Price Offer.
  - Bidders who were not declared as technically qualified bidders have challenged the decision and approached court.
  - Certain end uses and corresponding end use plants of the bidders were not considered eligible in accordance with the Tender Document. The same have been challenged by the bidders.
  - Hence, it is important that the terms and conditions of the Tender Document are unambiguous, bidders queries are addressed clearly and if a bidder is found ineligible to participate in the auction process, appropriate justification is documented in the minutes of the TEC meeting.

Implementation Challenges

- **Ensuring smooth transfer of coal mine from the prior allottee to the Successful Bidder and speedy start of operations from the allocated coal mines**
  - Transfer of clearances, land mutation, assessment of stamp duty, disputes with prior allottees regarding mine infrastructure etc. are key issues in this regard.
  - Co-ordination between central and state agencies for timely and appropriate action.
  - Periodic review meetings are being held with the Successful Bidders to understand the status of operations and appropriate action is being taken accordingly.
  - Ministry of Coal is pursuing with relevant state and central agencies for speedy transfer of clearances/permissions and other required approvals.
Implementation Challenges ..2

- Monitoring Issues
  - Large number of compliance reports to be filed by the Successful Bidder to CCO, state and central agencies.
  - Monitoring of milestone payments/ periodic payments by the Successful Bidder.
  - Since coal from the captive coal mines may be used in the Specified EUP as per consumption norms and the balance is required to be sold to CIL, appropriate estimation need to be made regarding permissible coal quantities to be used in Specified EUP and sale of balance coal to CIL.
  - Revision of tariff in case of mines allocated to power sector.
  - Monitoring status of mine development/ operation in terms of stipulated Efficiency Parameters.
  - A team of experienced professionals from various disciplines have been set up with designated responsibilities for smooth processing of these tasks.

Thank You
Annexure III

Objectives:
To develop a Decision Support System for:
- Governance
- Planning
- Monitoring
- Management of resources

Task:
- Creation of multi-purpose, standardized, common geo-spatial database at ownership level for the mining areas
- Analysis as per mining regulation /criteria

Simple - Transparent - Efficient - Low Cost

Application of Geo-informatics in Mining Sector

Administrative Records

- District, Taluka, Village
- Survey number/Location
- Land type (Govt. Land, Others)
- Major mines
- Minor mines
- Area
- Number of applicants
- Address
- ML/PL/QL, type of application
- Granting authority
- Granted area
- Date of grant
- Order no.
- Period
- Quantum of minerals
- Transportation
- Date of execution
- Date of commencement
- Date of renewal

This database linked to location in GIS environment
### Application of Geo-informatics in Mining Sector

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<td>Mine Details</td>
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<tr>
<td>Dimension</td>
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<td>Govt. Records, Satellite Image</td>
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<td>Land use</td>
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Technology supports Geo-referencing of mining areas through Satellite images

### Gujarat Geo-informatics: Database Creation

- Village Map Geo-referencing through Indian Satellite Images

<table>
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<th>Description</th>
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<tr>
<td>Collection of Village Map</td>
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<tr>
<td>Scanning of Map</td>
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<tr>
<td>Geo-referencing of Scanned Map to Satellite data</td>
<td></td>
</tr>
<tr>
<td>Digitization of Geo-referenced village Map</td>
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</table>

- A Seamless base map for the state, Scale independent (Object oriented approach)
Application of Geo-informatics in Mining Sector

GIS based Decision Support System
Application of Geo-informatics in Mining Sector

District: Porbandar

Application of Geo-informatics in Mining Sector

Taluka: Ranavav
Application of Geo-informatics in Mining Sector

Mining at Taluka level

Application of Geo-informatics in Mining Sector

Villages
Application of Geo-informatics in Mining Sector

Mining at Village level

Application of Geo-informatics in Mining Sector

Mining on Satellite Image
Application of Geo-informatics in Mining Sector

Mining at survey no. level

Datasets of Mining
Application of Geo-informatics in Mining Sector

Mining on Satellite Image
Integration of field photograph through GPRS on cadastral map in GIS system

MINERAL INFORMATION SYSTEM

| Lease Holder Code | Leaseholder Name | Mineral | District Name | Pass No. | Weight (MT) | Online Total | Online Royalty | Any Reduction | Total Reduction |
|-------------------|------------------|---------|---------------|----------|-------------|--------------|----------------|---------------|----------------|----------------|
| MAI 020552625     | Jodhpur Phosphate | Phosphate | MAHARAJAGAR | 3        | 0.93        | 5034.4       | 0              | 0              | 0              |
| MAI 0205528925     | Gokul Phosphate | Phosphate | MAHARAJA MUDA | 0.35 - 6.5 | 3           | 62.93        | 5034.4         | 0              | 0              |
| MAI 0205590925     | Deepak Mineral Co. Ltd. | Phosphate | MAHARAJAGAR | 5        | 0           | 0            | 0              | 7120          | 0              |
| MAI 0205590711     | Hindustan Mines Ltd. | Phosphate | MAHARAJAGAR | 0.54 - 5.5 | 0           | 0            | 3              | 0              | 2477          |
| MAI 0205590722     | Hindustan Mines Ltd. | Phosphate | MAHARAJAGAR | 0.54 - 5.5 | 7           | 154.265      | 12341.2        | 8              | 12341.2        |
Application of Geo-informatics in Mining Sector : EC

Land use- wise restriction Zones
Criteria: distance from various boundaries of:

- Sanctuary / National Parks
- Eco sensitive zones
- Forests
- Waterbody (River, Pond, Lake..)
- Habitations
- Mineralized zones
- Infrastructure (Road, Railway)

- Heritage / Monuments
- Coastal Regulation Zones
- Gochar/Common Lands
- Man Made Hazard Zone
- Natural Hazard
- SEZ
- Wetlands

Technology supports identification of particular location with respect to various boundaries
Proactive utilization of Space Applications by the Government department

Site Selection Criterion Distance from Habitation > 500 meters, Rivers / Lakes / Water bodies > 200 meters, Non meandering (canal, drainage, etc.) > 30 meters, Highway / Railway line - 300 meters from centre line, should not be in Coastal Regulation Zoning, Earthquake Zone ie. 500 meters from fault line fracture, Flood Prone Area.
Geo-informatics Application in Archaeology Sector: Regulation

1. Collection of Village Map and Site Plan
2. Scanning of Map
3. Geo-referencing of Scanned Map to Satellite data
4. Digitization of Geo-referenced Site and village Map

Site Plan of monuments, Geo-referencing through Satellite Images

Online Application System
Geo-informatics Application in Archaeology Sector: Regulation

You are eligible for Construction/Reconstruction as per existing rules. Survey no: 100 is outside Regulated area.

Online Application System

Gujarat State Spatial Data Infrastructure:
Institutionalisation: Realization Mechanism
Gujarat State Spatial Data Infrastructure:
Institutionalisation : Realization Mechanism

Technology Provider (BISAG)

Resources
- Government
- Funding
- Monitoring
- Guidelines

Processes
- Problem Definition
- Domain Inputs
- Functionaries
- Institutionalization

Common Man

Sustainable Development
- Data
- Info
- Plan
- DSS
- Recipient Agency

Acceptability
- Adoptability
- Affordability

Technology for mass usability

Thank You
A Demonstration of Compatibility of Gujarat GIS Database

Satellite Image as Base

Satellite Data (Type I)

LISS-IV

2D/3D/4D
Drainage and Checkdams

Landbank
### Annexure-IV

<table>
<thead>
<tr>
<th>State</th>
<th>Whether DMF rules promulgated</th>
<th>If yes, whether in line with PMKKKY</th>
<th>If not, likely month</th>
<th>Whether DMF constituted at district level</th>
<th>If not, likely month</th>
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<tbody>
<tr>
<td>Andhra Pradesh</td>
<td>No</td>
<td>--</td>
<td>Dec, 2015</td>
<td>No</td>
<td>Dec, 2015</td>
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<tr>
<td>Chhattisgarh</td>
<td>No</td>
<td>--</td>
<td>End Dec, 2015</td>
<td>No</td>
<td>Jan, 2016</td>
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<td>Gujarat</td>
<td>Under consideration of State Govt.</td>
<td>Yes</td>
<td>February 2016</td>
<td>Yes</td>
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<tr>
<td>Jharkhand</td>
<td>DMF Rules put before the Government for approval (DMFT formed and communicated to DCs/DMOs)</td>
<td>Yes</td>
<td>December 2015</td>
<td>DMFT formed and communicated to DCs/DMOs. In process of constituting the DMFT at District levels</td>
<td>January-February, 2016</td>
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<tr>
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<td>Dec, 2015</td>
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<tr>
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<td>No</td>
<td>--</td>
<td>End Dec, 2015</td>
<td>No</td>
<td>Feb, 2016</td>
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