From
Shri Manoj Ahuja, IAS
Commissioner-cum-Secretary to Govt.

To
The Director of Mines, Orissa,
Bhubaneswar

Sub: Digitization of maps of Mining Leasehold areas.

Sir,

It has been decided by Government for digitization of maps of various mining leasehold areas, verification of boundaries using DGPS and cross verification with actual ML maps and using satellite imagery to detect illegal mining in the State. In the first phase this project will be taken up on a pilot basis in Keonjhar district.

2. ORSAC has been entrusted the work of digitization of the cadastral map of the mining leases and also carry out the digitization of survey boundary using DGPS. As per the requirement of IBM circular No.2/2010 dated 06.04.2010, ORSAC has been recognized by the State Government as the agency for carrying out survey using DGPS in the State.

3. It is, therefore, requested that while carrying out this exercise, the following procedure may be followed for which similar instructions have also been issued by IBM vide circular No.2/2010 dt.6.4.2010 of the Chief Controller of Mines, IBM, Nagpur for preparation of mining plans/scheme of mining/progressive mine closure plan and scheme of prospecting:

   i. The mining lease/prospecting license boundary showing all Khasra numbers/Survey Nos on a Cadastral Map on original plan (not the photo copy) published by the competent authority of State Government
under relevant law shall be submitted along with application for Mining
Lease/ Prospecting License/Reconnaissance Permit/RML/Mining Plan/
Scheme of Mining/Progressive Mine Closure Plan and Scheme of
Prospecting by the Lessee/Applicant/Licensee. This should be done by
July 31st 2010. ORSAC shall vectorise the cadastral maps and
integrate with the digitized cadastral revenue maps.

i. The boundary pillars of each mine lease/prospecting license are to be
fixed precisely. The lessee at his own expenses erect and at all times
has to maintain and keep in good repair boundary marks and pillars
necessary to indicate the demarcation shown in the plan/lease map
annexed to the lease as required under Rule 27 (1)(g) of M.C. Rules,
1960. Each boundary pillars shall be surveyed using DGPS (at least 2
hours observation) for its ground position by an agency recognized by
the State Government, which is ORSAC. Since ORSAC has already
established ground control points in Keonjhar District, they should
indicate the same in the maps. At the time of survey a survey team
comprising of officials from Mining Department, Forest Department and
Revenue Department shall verify and authenticate the position of the
boundary pillars. During the survey labour support and bush
clearances of boundary lines will be made available to ORSAC by the
lessees.

iii. The Geo-referenced mining lease / prospecting license map prepared
using DGPS shall be superimposed on Geo-referenced vectorised
cadastral map. On integration, the Geo-referenced mining lease/
prospecting license map shall be duly matched with Geo-referenced
vectorised cadastral maps.

iv. In case of forest areas, the boundary pillars shall be fixed on ground
with reference to at least three permanent ground features in and
around mining leases/prospecting licenses.

v. The Geo-referenced mining leases/Prospecting licenses map shall be
superimposed on latest high-resolution satellite data (cloud–free)
derived from merging of Cartosat-2 and LISS-IV (scale 1:5,000)
covering an area of 500 meters from the mining lease / applied area boundary.

vi. The satellite data products are available from NRSC, Hyderabad. The superimposed output in the form of soft copy and hard copy should be submitted along with the application for Mining Lease/ Prospecting License/ Reconnaissance Permit / RML / Mining Plan/ Scheme of Mining/Progressive Mine Closure Plan and Scheme of Prospecting. The soft copy submission should be in the standard format and digitized maps should be in shape of file, which can be imported in any GIS database.

vii. The above maps will be base for preparation of all statutory purposes as well as working plans of the mines.

4. The Director of Mines is to supply a list of Mines where this work will be taken up to the Forest & Environment Department so that the said Department can take up digitization work of forest areas in these mines on priority basis for Keonjhar district.

5. The survey may be undertaken for the lease boundary at the first instance after which the safety zone and surface right area can be surveyed and such pillars verified and corrected.

6. If during survey and verification, instances of mining beyond the approved area is noticed, punitive action as deemed proper may be initiated under the law.

7. The survey may be undertaken immediately in Joda, Keonjhar and Bonai Mining Circles in the order of (i) working mines which are now operational (ii) working mines suspended and (iii) mines which are not working.

8. Collector, Keonjhar and Collector, Sundargarh will supervise and coordinate the above exercise in their districts. Any clarification or problems faced may be brought to the notice of the undersigned.

Yours faithfully,

[Signature]

Commissioner-cum-Secretary to Govt.
Memo No. 4282  Date 08.07.2010

Copy forwarded to the Forest & Environment Department/Revenue & Disaster Management Department for kind information and necessary action. The Forest & Environment Department are requested to ensure digitization of the maps of Keonjhar District on priority basis as per decision taken in the meeting taken by the Chief Secretary, Orissa, a copy of which has been endorsed to them in this Department Letter No.3780/SM dt.19.6.2010.

Memo No. 4283  Date 08.07.2010

Copy forwarded to the Chief Executive, ORSAC, Bhubaneswar/M.D., OCAC, Bhubaneswar/ Director of Geology, Orissa, Bhubaneswar/Collectors, Keonjhar/Sundargarh/ all DDMs for kind information and necessary action.

Memo No. 4284  Date 08.07.2010

Copy forwarded to the Chief Controller of Mines, Indian Bureau of Mines, Nagpur/Regional Controller of Mines, IBM, Bhubaneswar for kind information.

Memo No. 4285  Date 08.07.2010

Copy forwarded to the P.S. to Chief Secretary, Orissa/ P.S. to Commissioner-cum-Secretary, Steel & Mines Deptt./ P.S. to Special Secretary, Steel & Mines Department/ P.S. to Additional Secretary, Steel & Mines Department for kind information of Chief Secretary, Orissa/ Commissioner-cum-Secretary, Steel & Mines Department/ Special Secretary, Steel & Mines Department/ Additional Secretary, Steel & Mines Department respectively.

Under Secretary to Govt.