

**Administrative Order**  
**No. 35**  
**May 17, 1993**

**SUBJECT : Prescribing Standard Operating Procedures to Strengthen the DENR Integrated Approach to Surveying and Mapping in the Country**

A. Supplementary to DAO No. 72, Series of 1990, initially instituting the integrated approach to surveying and mapping in the Department of Environment and Natural Resources, the following Standard Operating Procedures are hereby prescribed.

1. All survey and mapping projects within the function of the DENR shall be undertaken in accordance with the Manual of Land Surveys in the Philippines (MLSP), Manual of Regulations of Mineral Land Surveys (MRMLS), DAO 72 and other pertinent existing rules and regulations which shall be in conformity with this order not contrary hereto.
  - 1.1 For parcellary surveys of ISF areas, Land use classification, A & D Inventory surveys and foreshores lands using the minimum allowable surveying/mapping equipments of transit and stadia, the survey precision shall be 1:000
2. All survey returns, plans and maps intended to be used as instrument of official transactions or pertinent supporting documents shall be forwarded for verification and approval to the Regional Technical Director for Lands Management Services.
  - 2.1 Plans of mineral land survey shall be plotted on the cadastral maps and on survey index maps. All indicated with dash lines on the mineral survey Plan.
  - 2.2 All other plans and Maps shall be verified to ascertain the precision of the boundary technical Projection Maps to establish their relative positions with their adjoining previously approved surveyed lots.
3. Pending the transfer of technology to the regions of the Least square, Hermer/Affine adjustment, the survey returns including the preliminary computations shall be prepared by the Regional Field Network Survey Parties (FNSPs) and submitted to the Land Management Bureau through the Regional Technical Director for Land Management Services for adjustment and/or

transformation pursuant to DENR Circular No. 1, S-1989 as amended by DENR Circular No. 6, S-1991 and DAO No. 72.

4. The Regional Technical Directors for Land Management Services shall be directly responsible for the technical supervision and control of Regional Survey Parties/Teams in the execution of the surveys and mappings under the functional responsibility of DENR excluding those involved in the following:
  - 4.1 The National Geodetic Network Surveys of NAMRIA
  - 4.2 Photogrammetric and Remote Sensing surveys and mapping of NAMRIA for the production of small and medium-scale topographic maps which follows the international standards of mapping.
  - 4.3 Hydrographic and gravimetry survey, soundings, global positioning survey of the Coast and Geodetic Surveys Department of NAMRIA; provided that the densification of GPS control point thru traversing, triangulation, or trilateration to service specifically the immediate need of the cadastral and other surveys covered by this order shall be placed under the operation of this Order.
  - 4.4 Geological or geomorphological as well as the underground mineral land surveys of the Mines and Geo-Sciences Management Services.
  - 4.5 Route surveys and similar construction surveys needed in special projects.
  - 4.6 Production of thematic maps prepared from previously approved maps by field units are also exempted provided that the established standards for maps are followed and that copies of the maps shall be sent to the LMS and LMB for reference in the preparation of regional and national maps, respectively.
  - 4.7 Surveys of foreign-assisted projects whose supervision and coordination shall be provided by their Project Management Office.
5. To ensure the effective management control of surveying and mapping under these integrated approach procedures, the Regional Technical Director for Land Management Services shall:
  - 5.1 Gather all field surveys/operation plans of Regional survey parties/mapping teams of the PENROs and CENROs;

- 5.2 Accordingly formulate the corresponding strategies of supervision, coordination and field inspection/monitoring of programmed survey/mapping projects; and
  - 5.3 Set-up an effective survey verification mechanism to facilitate the approval of the surveys/maps.
- B. This order amends and/or supersedes accordingly existing guidelines, instruction, rules and regulations contrary hereto.
  - C. For strict compliance, this order takes effect immediately.

**ANGEL C. ALCALA**  
**Secretary**