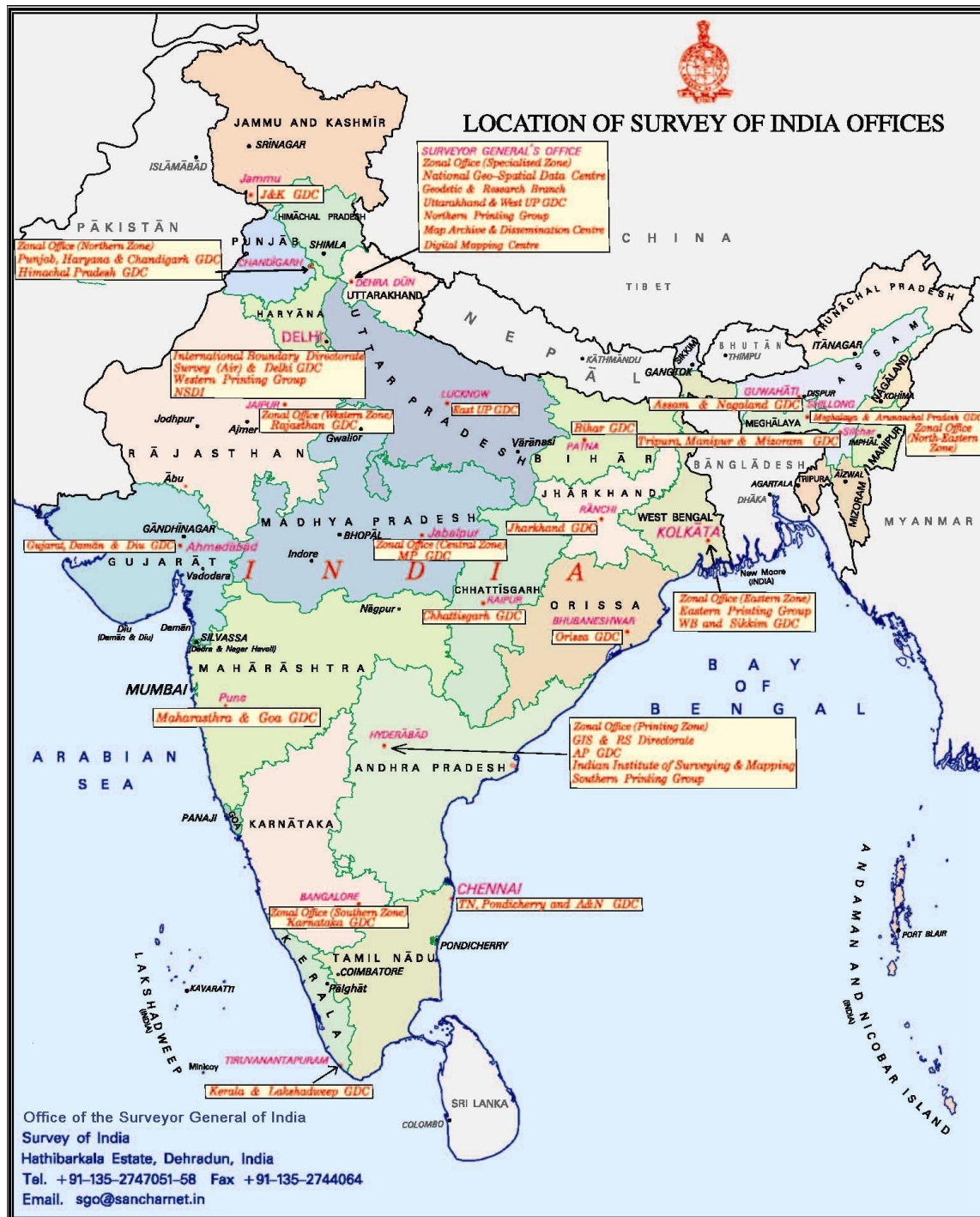# NSDI Activities
in
Survey Of India (SOI)

By: Pankaj Mishra
Survey of India

ORGANIZATION:

- 08 Zone offices
- 22 Geo-spatial Data centers (Covering 29 States, 7 UTs)
- 04 Printing groups
- 06 Specialized directorates

SOI Topographical Maps:

1. **Topographical Maps** : (Everest Datum and Polyconic Projection)

   These maps were printed on 1:250,000; 1:50,000 and 1:25,000 scale.

   On implementation of National Mapping Policy–2005 on 19 May, 2005 production of topographical maps has been replaced with Open Series Maps (OSM) and Defence Series Maps (DSM) on 1:250,000; 1:50,000 and 1:25,000 scale.

2. **Open Series Maps (OSM):** (WGS-84 Datum and UTM Projection)

   These maps are being prepared on 1:250,000; 1:50,000 and 1:25,000 scales for the use of general public for supporting development activities in the country. They do not contain grid and classified information; therefore, they are kept under Unrestricted category. Some maps sheets are also printed in Hindi and other regional languages.

3. **Defence Series Maps (DSM)** : (WGS-84 Datum and LCC Projection)

   These are prepared on 1:250,000; 1:50,000 and 1:25,000 scales for the use of defence forces of India and caters to support National security requirements. They contain full features of map with grid, contours and other classified information without any dilution of accuracy; therefore, they are kept under Restricted category. Survey of India is only authorized for preparation and printing of DSM. For sale and distribution the responsibilities are assigned to ADGMS (GSGS), Ministry of Defence, DGIS Enclave, Rao Tula Ram Marg, Delhi Cantt.

NSDI ACTIVITIES IN SOI

- Establishment, Maintenance and development of NSDI NODE at GIS&RS, Hyderabad.
- Development of Geo-portal for delivery of Web Services.
- Creation of Web Map Service (WMS) for 1:50,000 scale Open Series Maps.
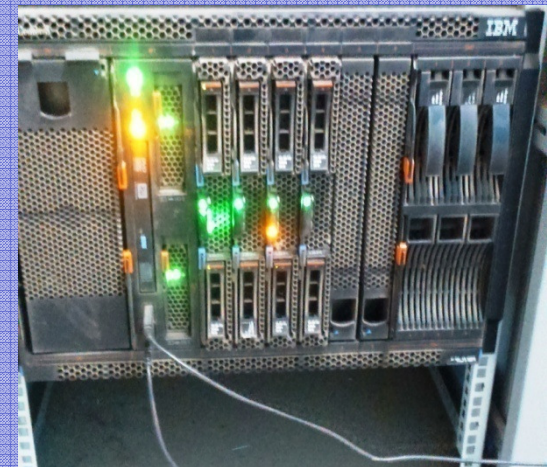- Creation of Web Feature Service (WFS) for 1:50,000 scale Open Series Maps.

NSDI NODE at GIS & RS, Hyderabad

NATIONAL SPATIAL DATA INFRASTRUCTURE

Department of Science & Technology
Government of India
SURVEY OF INDIA NODE
GIS & RS Directorate
Uppal, Hyderabad – 500 039

GEO-PORTAL Development

- To facilitate User access to search, discover and data visualision functionalities.
- Cataloguing of Web Services from all sources i.e. Internal or External.
- Publishing Web Services from the data resident in RDBMS i.e. ORACLE-Spatial.
- Delivery of SOI digital products and Web Services
- Provide functionalities/support for user applications

CREATION OF WEB SERVICES

- **WEB MAP SERVICE (WMS)**
- **WEB FEATURE SERVICE (WFS)**

STATUS OF WEB MAP SERVICE CREATION

Total no. of States/UTs completed
and uploaded on Server   : **27 States + 7 UTs**

Total no. of States/UTs to be
Completed and uploaded on Server : **2 States**

Important Notes regarding Web services of OSM maps:
1. As per Restriction policies of MOD OSM maps classified as Frozen,Top Secret, Secret are not to be published.
2. OSM maps classified as Restricted are to be published without contours and spot heights and Hill shades are to be shown for highly undulating/hilly/mountaneous areas.
3. OSM maps with International Boundary (IB) can be published on receiving requisite clearance only.

List of States/UTs completed and uploaded:

1. Andhra Pradesh
2. Telangana
3. Arunachal Pradesh
4. Meghalaya
5. Assam
6. Nagaland
7. Bihar
8. Chattisgarh
9. Delhi
10. West Bengal
11. Sikkim
12. Jharkhand

13. Karnataka
14. Kerala
15. Lakshadweep
16. Madhya Pradesh
17. Maharashtra
18. Goa
19. Orissa
20. Himachal Pradesh
21. Chandigarh
22. Punjab
23. Haryana
24. Tripura

25. Manipur
26. Mizoram
27. Tamilnadu
28. Puduchery
29. Andaman & Nicobar
30. Uttar Pradesh
31. Uttarakhand
32. Gujarat
33. Daman and Diu
34. Dadar & Nagar Haveli

List of States/UTs not completed and uploaded:

1. Rajasthan ($\approx$ 40% work completed)
2. Jammu and Kashmir ($\approx$ 10% work completed)

STATUS OF WEB MAP SERVICE