Proceedings of the meeting held regarding "Customisation and Implementation of Geo-Spatial Dashboard" under the Chairmanship of Dr. Pushpendra Rana, Director-cum- Ex-Officio Spl. Secretary (Rev-DM), on 23th April 2026, 03:00 PM at the NIC Conference Room, Ellerslie H.P. Secretariat.

List of participants :

1. Sh. Nishant Thakur, Additional Secretary (Rev DM) to the GoHP-cum- Project Director SDMF & Program Director (HPDRRP Program)
2. Dr. Rohit Chauhan,(GIS&RS SPI), Rev DM
3. Dr. Krishan Thakur, (T&CBS), Rev DM
4. Dr. Manoj Kumar, (Scientific Professional), AGiSAC
5. Sh. Anshul Nainta, (Scientific Professional), AGiSAC
6. Er. Vikas Sharma, AP(IT Specialist) DMC-Revenue
7. Sh Arvind Chauhan, (AT&CBS), Rev-DM
8. Sh.Sandeep Kalra, (Regional Sales Manager), ESRI
9. Sh. Manesh Sharma, (Sr. Manager & Sr. Engineer), ESRI

The meeting was held under the Chairmanship of the Director-cum- Ex-Officio Spl. Secretary (Rev-DM), to the Govt of Himachal Pradesh to discuss the development of a GIS-based Decision Support System (DSS).

2. At the outset, the Director-cum- Ex-Officio Spl. Secretary (Rev-DM), to the Govt of Himachal Pradesh presented an overview of the proposed GIS-based Decision Support System (DSS). He emphasized that the system should be user-friendly, interactive, and accessible through both citizen and official portals. The platform should effectively support decision-making processes during pre-disaster, during disaster, and post-disaster phases.

3. He further highlighted that the DSS must incorporate an automatic dissemination system based on area of influence (buffer zones) using mobile-based location services. This system should ensure that alerts and incident-related information are promptly delivered to concerned officers within the defined geographic boundary. Additionally, the system should facilitate a two-way communication mechanism, enabling both top-to-bottom and bottom-to-top reporting.

4. It was also emphasized that the portal should integrate key reporting and analytical tools, including:

- Post Disaster Needs Assessment (PDNA)
- Daily incident reporting system
- Resource inventory and management system
- Hazard-based analysis
- Dynamic Decision Support System

5. All these components should be integrated into a single unified platform.

6. Additional Secretary (Rev DM) to the GoHP highlighted the importance of a geo-tagged photo and video-based incident reporting mechanism to enhance real-time situational awareness and improve response efficiency. After detailed deliberations, the following decisions were taken:

Decisions / Instructions:

7. After detailed deliberations, the following directions were issued:

A. Directions to Aryabhatta Geo-informatics & Space Application Centre

- Aryabhatta Geo-informatics & Space Application Centre shall finalize the Incident Reporting Portal by 12th May, 2026.
- All disaster-related resources shall be integrated and managed within the DSS portal.

B. Directions to ESRI (Environmental Systems Research Institute)

8. It was noted that the ESRI server has already been procured by AGiSAC, and Esri is providing technical support for GIS and web-based applications. During the meeting Esri has expressed its willingness to extend support for disaster-related initiatives. Accordingly, it was deliberated that Esri may assist AGiSAC in undertaking the integration of user location-based APIs and systems, as detailed below:

8.1 Integration of Weather & Early Warning Applications

- Mausam App – Provides weather forecasts, warnings, and current observations.
- Meghdoot App – Provides agro-meteorological advisories, particularly useful for rural areas.
- Damini App – Provides real-time lightning alerts, crucial for minimizing loss of life in vulnerable regions.

8.2 Integration of Disaster Alert & Citizen Reporting Applications

- Sachet App – Official app of National Disaster Management Authority for early warnings and alerts.
- Common Alerting Protocol (CAP) System – Enables multi-channel dissemination of alerts (SMS, sirens, mobile applications).
- 112 India App – Integrates emergency response services (police, fire, ambulance).

8.3 Integration of Flood & Hydrology Monitoring Systems

- Central Water Commission Flood Forecast App / Portal – Provides real-time river levels and flood forecasts.
- India Flood Inventory – Satellite-based flood mapping and historical flood data.

8.4 Integration of Earthquake & Seismic Monitoring Systems

- National Centre for Seismology App / Portal – Provides real-time earthquake data and alerts.
- Bhuvan Geoportal by Indian Space Research Organisation – Provides disaster layers, satellite imagery, and hazard mapping.

8.5 Integration of Landslide & Mountain Hazard Systems (Critical for Himachal Pradesh)

- Geological Survey of India Landslide Early Warning System (LEWS) – Operational in select vulnerable zones.
- BHUVAN Landslide Services – Provides landslide inventory and susceptibility mapping using satellite data.

8.6 Integration of Forest Fire & Environmental Monitoring

- Forest Survey of India Fire Alert System – Provides near real-time forest fire alerts via SMS and email.

8.7 Integration of Health & Relief Monitoring Systems

- eVIN / Health Dashboards – Useful for monitoring disease outbreaks during disasters.
- State Relief Commissioner dashboards and disaster management applications for real-time monitoring.

8.8 Integration of GIS & Decision Support Platforms

- ArcGIS (by ESRI) – Enables real-time dashboards, spatial analysis, and DSS integration.
- Bhuvan Geoportal by Indian Space Research Organisation – Provides disaster services, geospatial layers, and real-time mapping.

9. A buffer-based incident dissemination system shall be developed using mobile tower/location-based user data to enable targeted alerting within affected areas.
10. ESRI shall integrate Disaster News, Media & Open Data APIs to enhance real-time situational awareness:

11. Integration of Global News APIs

- Google News API – Aggregates real-time disaster news from multiple verified sources worldwide.
- NewsAPI – Provides structured JSON-based news feeds with keyword filtering.
- GDELT Project – Real-time global event database with disaster tracking and geolocation.

11.1 Integration of Indian News & Media Sources

- Press Trust of India (PTI).
- Asian News International (ANI).
- Himachal-based news channels and newspapers.
- RSS/XML feeds from leading newspapers such as The Hindu, The Times of India, and Dainik Bhaskar.

11.2 Integration of Government & Official Information Sources

- Press Information Bureau (PIB).
- National Disaster Management Authority (NDMA).
- India Meteorological Department (IMD).
- AI-based integration of Government notifications and advisories for Himachal Pradesh.

11.3 Integration of Social Media & Crowd-Sourced APIs

- X (Twitter) API.
- Facebook Graph API.
- YouTube Data API.

11.4 Integration of Satellite & International Disaster Data APIs

- NASA FIRMS API.
- Copernicus Emergency Management Services (EMS).
- UNOCHA ReliefWeb API.

12. ESRI shall submit a detailed workflow, system architecture, and concept note for the proposed system, including implementation framework.

C. Direction to PMU SDMF:

13. The PMU-SDMF shall put up the draft MoU with AGiSAC -Himachal Pradesh Council for Science, Technology & Environment within one week, and the first instalment shall be released thereafter.

The meeting concluded with a vote of thanks to the Chair.

Approved by

Dr. Pushpendra Rana (IFS)
Director-cum- Ex-Officio Spl. Secretary (Rev-DM), to the
Govt of Himachal Pradesh

Endst. Rev. (DMC) (F) 15-1/2023-II (GIS&RS) Dated: the 29-4-2026

Copy forwarded to:

1. The Program Director, HPDRRP Program for information.
2. The Deputy Project Director, HP READY for information.
3. All the Participants for information and necessary action.

Thakur 29/4/26

Nishant Thakur (HPAS)
Additional Secretary (Rev DM) to the
GoHP-cum- Project Director SDMF