

Government of India
Office of Principal Scientific Adviser
to the Government of India

Vigyan Bhawan Annexe
Maulana Azad road,
New Delhi 110011

Prn.SA/PSA-SS (AB)/2018

Date: 23rd March, 2021

Office Memorandum

Subject: Composition of the Planning Committee of Space Applications Management System (SAMS) and the Ten Standing Committees to address the requirements of satellites & associated ground segment and its optimal utilisation – reg.

1. Preamble

The erstwhile National Natural Resources Management System (NNRMS) was established in 1985, as a well-knit network involving Central & State Governments, Private sectors, Academia and Non-Governmental Organizations for enabling the integration of Remote Sensing, contemporary technologies with the conventional practices for management of natural resources. The NNRMS framework included a Planning Committee of NNRMS (PC-NNRMS) chaired by Member (Science), Planning Commission and Secretaries of various Ministries/ Departments as Members. It was supported by nine theme oriented Standing Committees, namely - i) Agriculture & Soils (SC-A), ii) Bio-resources (SC-B), iii) Cartography & Mapping (SC-C), iv) Geology & Mineral resources (SC-G), v) Oceanography & Meteorology (SC-OM), vi) Rural Development (SC-R), vii) Urban Development (SC-U), viii) Water Resources (SC-W), ix) Training & Technology (SC-T). These SCs were working on behalf of PC-NNRMS, and responsible for utilization of space technology applications in respective areas.

In addition to natural resources management, space technology applications are proliferating in other areas, viz., infrastructure planning, governance & development, location-based services, societal communication, disaster risk reduction etc. This necessitates synergistic use of earth observation, communication, navigation satellites with other technologies and ensuring its effective adoption by stakeholder departments for operational use.

Considering the above, erstwhile NNRMS is restructured as Space Applications Management System (SAMS) with enhanced scope to dwell on need aspect of satellite missions and associated ground segment, development of applications aligned with national imperatives, and their optimal utilization to harness the benefits of space-based services.

The SAMS framework comprises of a Planning Committee of SAMS (PC-SAMS), supported by ten theme specific Standing Committees (SCs). PC-SAMS, as the apex-body, is empowered to oversee the SAMS activities, provide policy guidelines and endorse fund requirements for implementation of space applications. The Standing Committees, on behalf of PC-SAMS, shall identify thrust areas, data & application needs and mechanism to ensure maximal utilization of space technology in respective thematic areas. The Standing Committees shall inform its recommendations to PC-SAMS for

Arun Bhardwaj
23-03-2021

implementation.

PC-SAMS will be chaired by Principal Scientific Adviser to Government of India, with Secretaries and senior officials of the User Ministries/Department as Members. The Standing Committees will be chaired by the Secretaries to the Government of India.

The Secretariat of PC-SAMS will be located at Earth observation applications & Disaster management support Programme Office (EDPO), ISRO HQ., Bangalore. Director, EDPO will serve as the Secretary of PC-SAMS.

2.Planning Committee – SAMS (PC-SAMS)

The Planning Committee of the SAMS (PC-SAMS) is hereby constituted, as follows:

1.	Principal Scientific Advisor (PSA) to Government of India	Chairman
2.	Secretary, D/o Space	Member
3.	Secretary, D/o Agriculture Cooperation & Farmer's Welfare	Member
4.	Secretary, M/o Environment, Forests & Climate Change	Member
5.	Secretary, M/o Mines	Member
6.	Secretary, M/o Earth Sciences	Member
7.	Secretary, D/o Land Resources	Member
8.	Secretary, D/o Water Resources, RD & GR	Member
9.	Secretary, D/o Drinking Water and Sanitation	Member
10.	Secretary, M/o Panchayati Raj	Member
11.	Secretary, D/o Science & Technology	Member
12.	Secretary, M/o Electronics and Information Technology	Member
13.	Finance Secretary, M/o Finance	Member
14.	Secretary, M/o Housing & Urban Affairs	Member
15.	Secretary, M/o Road Transport and Highways	Member
16.	Secretary, M/o Statistics & Programme Implementation	Member
17.	Secretary, D/o Telecommunications	Member
18.	Secretary, M/o Civil Aviation	Member
19.	Secretary, M/o Shipping	Member
20.	Secretary, M/o Home Affairs	Member
21.	Member Secretary, National Disaster Management Authority	Member
22.	Secretary, M/o Health & Family Welfare	Member
23.	Secretary, M/o New & Renewable Energy	Member
24.	Director General, India Meteorological Department	Member
25.	Representative of NITI Aayog	Member
26.	Chairman-cum-Managing Director, NSIL	Member
27.	Director, EDPO, ISRO HQ., Bangalore	Secretary

Terms of Reference (TOR) of PC-SAMS:

- PC-SAMS shall ensure the interaction among various user departments, through its theme specific Standing Committees, for identifying the requirements of space-based services.
- PC-SAMS shall recommend necessary space technology interventions and provide justification for its

Arun Bhardwaj
23-03-2021

implementation.

- PC-SAMS shall recommend the suitable funding mechanism to realize space assets and associated ground segment through designated PSU/CPSE under DOS or directly by DOS.
- PC-SAMS shall oversee the utilization of space-based services for the benefit of the governance and development.

3.SAMS Standing Committees (SCs):

The ten-theme based Standing Committees (SCs) are constituted in the areas of - i) Agriculture & Soils (SC-A&S), ii) Bio-resources & Environment (SC-B&E), iii) Geosciences (SC-G), iv) Oceanography & Meteorology (SC-O&M), v) Rural & Panchayat Development (SC-R&P), vi) State/UT Development (SC-S&U), vii) Urban & Cartography (SC-U&C), viii) Water Resources (SC-W), ix) Disaster Management (SC-DM), x) Societal Communication & Navigation (SC-C&N).

The Standing Committees shall work, on behalf of PC-SAMS, and shall be primarily responsible for identifying user requirements for space-based services, thrust areas of applications, proof of concept studies and their plan for utilization and operationalization in respective thematic areas.

Terms of Reference (TOR) of all the Standing Committees:

- SCs shall assess the current capabilities, identify gaps and thrust areas in space applications.
- SCs shall evaluate theme specific needs and arrive at suitable specifications for building satellite systems.
- SCs shall identify required techniques of data analysis, modelling, data integration, information system and mechanism to ensure data utilization.
- SCs shall formulate programs / projects aligned with the developmental needs and also suggest sources of funding for implementation.
- SCs shall present its recommendations to PC-SAMS for implementation.

The composition of the Standing Committees of the PC-SAMS will be as follows:

3.1. Standing Committee on Agriculture & Soils (SC-A&S)

1.	Secretary, D/o Agriculture Cooperation & Farmer's Welfare	Chairman
2.	Director General, Indian Council of Agricultural Research	Alt. Chairman
3.	Deputy Director General, NRM, ICAR, New Delhi	Member
4.	Joint Secretary, D/o Land Resources, New Delhi	Member
5.	Agricultural Commissioner, DAC, New Delhi	Member
6.	Horticulture Commissioner, DAC, New Delhi	Member
7.	Director, NBSS&LUP, Nagpur	Member
8.	Chief Soil Survey Officer, SLUSI, New Delhi	Member
9.	Director General, IMD, New Delhi	Member
10.	Joint Secretary, DONER, New Delhi	Member
11.	Chairman, National Dairy Development Board, Anand	Member
12.	Joint Secretary, D/o Water Resources, RD & GR, New Delhi	Member
13.	Joint Secretary, Animal Husbandry & Dairying, New Delhi	Member

Arun Bhardwaj
23-03-2021

14.	CEO, Pradhan Mantri Fasal Bima Yojana, New Delhi	Member
15.	Director, Mahalanobis National Crop Forecast Centre, New Delhi	Member
16.	Representative of NRSC, Hyderabad	Member
17.	Representative of SAC, Ahmedabad	Member
18.	Associate Director, EDPO, ISRO	Member-Secretary

3.2. Standing Committee on Bio-resources & Environment (SC-B&E)

1.	Secretary, M/o Environment, Forests & Climate Change	Chairman
2.	Secretary, D/o Biotechnology	Alt. Chairman
3.	Joint Secretary, M/o New & Renewable Energy, New Delhi	Member
4.	Advisor, D/o Science & Technology, New Delhi	Member
5.	Director, Indian Institute of Tropical Meteorology, Pune	Member
6.	Chairman, Central Pollution Control Board, New Delhi	Member
7.	Joint Secretary, DONER, New Delhi	Member
8.	Chairman, Divecha Center for Climate Change, IISc, Bangalore	Member
9.	Director General, Forest Survey of India, Dehradun	Member
10.	Director, GB Pant Institute of Himalayan Env. & Development	Member
11.	Director, ICFRE, Dehradun	Member
12.	Representative of M/o Earth Sciences, New Delhi	Member
13.	Representative of SAC, ISRO, Ahmedabad	Member
14.	Representative of NRSC, ISRO, Hyderabad	Member
15.	Associate Director, EDPO, ISRO	Member-Secretary

3.3. Standing Committee on Geosciences (SC-G)

1.	Secretary, M/o Mines	Chairman
2.	Secretary, M/o Petroleum and Natural Gas	Alt. Chairman
3.	Director General, Geological Survey of India, Kolkata	Member
4.	Director, Atomic Minerals Directorate for Exploration and Research, D/o Atomic Energy, Hyderabad	Member
5.	Director, National Geophysical Research Institute, Hyderabad	Member
6.	Controller General, Indian Bureau of Mines, Indira Bhavan, Nagpur	Member
7.	Chairman-cum-Managing Director, Mineral Exploration Corporation Limited, Nagpur	Member
8.	CMD, National Mineral Development Corporation, Hyderabad	Member
9.	Joint Secretary, M/o Coal, New Delhi	Member
10.	Director, Wadia Institute of Himalayan Geology, Dehradun	Member
11.	Representative of M/o Earth Sciences, New Delhi	Member
12.	Representative of SAC, ISRO, Ahmedabad	Member

Arun Bhargava
23-03-2021

13.	Representative of NRSC, ISRO, Hyderabad	Member
14.	Associate Director, EDPO, ISRO	Member-Secretary

3.4. Standing Committee on Oceanography & Meteorology (SC-O&M)

1.	Secretary, M/o Earth Sciences	Chairman
2.	Director General, IMD	Alt. Chairman
3.	Director General, M/o Civil Aviation, New Delhi	Member
4.	Director General, Shipping Corporation of India	Member
5.	Deputy Director General, GSI, Kolkata	Member
6.	Chief Hydrographer, Naval Hydrographic Office, Dehradun	Member
7.	Director, CMFRI, Kochi	Member
8.	Director, National Institute of Oceanography (NIO), Goa	Member
9.	Director, INCOIS, Hyderabad	Member
10.	Director, NPOL, Kochi	Member
11.	Director, NIOT, Chennai	Member
12.	Director, NCPOR, Goa	Member
13.	Head, NCMRWF, New Delhi	Member
14.	Representative, Indian Coast Guard	Member
15.	Representative of SAC, ISRO, Ahmedabad	Member
16.	Representative of NRSC, ISRO, Hyderabad	Member
17.	Associate Director, EDPO, ISRO HQ.	Member-Secretary

3.5. Standing Committee on Rural & Panchayat Development (SC-R&P)

1.	Secretary, D/o Land Resources	Chairman
2.	Secretary, M/o Panchayati Raj	Alt. Chairman
3.	Joint Secretary, D/o Rural Development, New Delhi	Member
4.	Agriculture Commissioner, DAC, MoA, New Delhi	Member
5.	Director General, NIRD & Panchayati Raj, New Delhi	Member
6.	Representative from D/o Science and Technology, New Delhi	Member
7.	Representative from NIC, New Delhi	Member
8.	Joint Secretary, DONER, New Delhi	Member
9.	Representative, NABARD, Mumbai	Member
10.	Representative of SAC, ISRO, Ahmedabad	Member
11.	Representative of NRSC, ISRO, Hyderabad	Member
12.	Associate Director, EDPO, ISRO	Member-Secretary

Arun Bhargava
23-03-2021

3.6. Standing Committee on State/UT Development (SC-S&U)

1.	Secretary, D/o Space, Bangalore	Chairman
2.	Scientific Secretary, ISRO, Bangalore	Alt. Chairman
3.	Secretary (S&T/Planning/IT), States (28) / UT (8)	Member
4.	Director, SRSACs (36)	Member
5.	Dy. Director General, National Informatics Centre, New Delhi	Member
6.	Joint Secretary, DONER, New Delhi	Member
7.	Director, NRSC, Hyderabad	Member
8.	Director, SAC, Ahmedabad	Member
9.	Director, NESAC, Shillong	Member
10.	Director, IIRS, Dehradun	Member
11.	Chief General Manager, Regional Centers, NRSC, Hyderabad	Member
12.	Director, EDPO, ISRO HQ.	Member
13.	Associate Director, EDPO, ISRO	Member-Secretary

3.7. Standing Committee on Urban & Cartography (SC-U&C)

1.	Secretary, M/o Housing & Urban Affairs	Chairman
2.	Surveyor General, Survey of India, Dehradun	Alt. Chairman
3.	Joint Secretary, M/o Housing & Urban Affairs, New Delhi	Member
4.	Chief Planner, TCPO, New Delhi	Member
5.	Chairman, Central Pollution Control Board, New Delhi	Member
6.	Additional Director, Directorate of Town & Country Planning, Bhopal	Member
7.	Director General, Archeological Survey of India, New Delhi	Member
8.	Representative, National Monument Authority, New Delhi	Member
9.	Director, School of Planning & Architecture, New Delhi	Member
10.	Deputy Director General (GIS), NIC, New Delhi	Member
11.	Director, National Atlas and Thematic Mapping Organization	Member
12.	Registrar General and Census Commissioner of India, New Delhi	Member
13.	Representative of SAC, ISRO, Ahmedabad	Member
14.	Representative of NRSC, ISRO, Hyderabad	Member
15.	Associate Director, EDPO, ISRO	Member-Secretary

3.8. Standing Committee on Water Resources (SC-W)

1.	Secretary, D/o Water Resources, RD & GR	Chairman
2.	Secretary, D/o Drinking Water and Sanitation	Alt. Chairman
3.	Chairman, Central Water Commission (CWC), New Delhi	Member

Anu Bhargava
23-03-2021

4.	Chairman, Central Ground Water Board (CGWB), New Delhi	Member
5.	Deputy Director General (Hydrometeorology), India Meteorological Department (IMD), New Delhi	Member
6.	Chairman, Central Pollution Control Board, New Delhi	Member
7.	Joint Secretary, M/o Agriculture, New Delhi	Member
8.	Director, National Institute of Hydrology (NIH), Roorkee	Member
9.	Director, National Water Informatics Centre	Member
10.	Representative of SAC, ISRO, Ahmedabad	Member
11.	Representative of NRSC, ISRO, Hyderabad	Member
12.	Associate Director, EDPO, ISRO HQ.	Member-Secretary

3.9. Standing Committee on Disaster Management (SC-DM)

1.	Member Secretary, National Disaster Management Authority	Chairman
2.	Secretary, Border Management, M/o Home Affairs	Alt. Chairman
3.	Joint Secretary, M/o Home Affairs, New Delhi	Member
4.	Joint Secretary, D/o Agriculture Cooperation & Farmer's Welfare, New Delhi	Member
5.	Director General, IMD, New Delhi	Member
6.	Chairman, Central Water Commission (CWC), New Delhi	Member
7.	Director General, Geological Survey of India, Kolkata	Member
8.	Director General, National Disaster Response Force, New Delhi	Member
9.	Executive Director, NIDM, New Delhi	Member
10.	Director General, Forest Survey of India, Dehradun	Member
11.	Director, INCOIS, Hyderabad	Member
12.	Joint Secretary, DONER, New Delhi	Member
13.	Programme Director, DMS, ISRO HQ., Bangalore	Member
14.	Project Director, AFS, SAC, ISRO, Ahmedabad	Member
15.	Project Director, RRES, NRSC, ISRO, Hyderabad	Member
16.	Project Director, AS&CB, IIRS, Dehradun	Member
17.	Associate Director, EDPO, ISRO HQ.	Member-Secretary

3.10. Standing Committee on Societal Communication & Navigation (SC-C&N)

1.	Secretary, M/o Electronics and Information Technology	Chairman
2.	Secretary, Ministry and Broadcasting	Alt. Chairman
3.	Joint Secretary, M/o Education, New Delhi	Member
4.	Joint Secretary, M/o Home Affairs, New Delhi	Member
5.	Joint Secretary, M/o Health & Family Welfare, New Delhi	Member

Arun Bhargava
23-03-2021

6.	Joint Secretary, D/o Telecommunication, New Delhi	Member
7.	Joint Secretary, Civil Aviation, New Delhi	Member
8.	Joint Secretary, M/o Shipping, New Delhi	Member
9.	Joint Secretary, M/o Road Transport & Highways, New Delhi	Member
10.	Joint Secretary, M/o Railways, New Delhi	Member
11.	Joint Secretary, D/o Post, New Delhi	Member
12.	Representative of MoES, New Delhi	Member
13.	Representative of SAC, ISRO, Ahmedabad	Member
14.	Representative of NRSC, ISRO, Hyderabad	Member
15.	Associate Director, SatNav, ISRO HQ.	Member
16.	Associate Director, SatCom, ISRO HQ.	Member-Secretary

Chairmen of the SCs may co-opt members for the specific meetings, if necessary.

This issues with the approval of the Principal Scientific Adviser to the Gol.

Arun Bhardwaj
23-03-2021

(Dr. Arun Bhardwaj)
Scientist 'E'
Office of PSA to Gol

To:

1. Members of PC-SAMS
2. Chairman, Alt. Chairman and Members of Standing Committees

Copy to:

1. Staff Officer, PSA to Gol
2. Sr. PPS, Scientific Secretary, O/o the PSA to Gol
3. Shri Manharsinh Yadav, Director, PMO