

No 5232/TSG/STD/SDR
Government of India
Ministry of Defence
Department of Defence Production

South Block, New Delhi, dated 8th Nov 2018

OFFICE MEMORANDUM

Subject: Constitution of Committee for preparing of Roadmap for Development of Indigenous Software Defined Radios (SDR) Ecosystem

The undersigned is directed to convey the constitution of a committee as under, for development of a roadmap for an Indigenous Software Defined Radio (SDR) ecosystem with a focus to meet requirement of Strategic Sector and Defence Services.

- | | | | |
|--------|------------------|---|---|
| (i) | Chairman | - | Dr Abhay Karandikar , Director IIT Kanpur |
| (ii) | Member | - | Representative of Army HQ (Not below the rank of Major General) |
| (iii) | Member | - | Representative of Air HQ (Not below the rank of Air Vice Marshal) |
| (iv) | Member | - | Representative of Naval HQ (Not below the rank of Rear Admiral) |
| (v) | Member | - | To be nominated by HQ IDS |
| (vi) | Member | - | To be nominated by DRDO |
| (vii) | Member | - | To be nominated by BEL |
| (viii) | Member | - | Dr Ranjan Bose, Director IIIT, Delhi |
| (ix) | Member | - | Dr David Koilpillai, Professor IIT, Chennai |
| (x) | Member | - | Dr Kumar Appaiah Asst Professor IIT, Mumbai |
| (xi) | Member | - | Dr Adrish Banerjee, IIT Kanpur |
| (xii) | Member | - | To be nominated by IESA/SIDM |
| (xiii) | Member Secretary | - | Dir Def Std., DDP |

2. The detailed terms of reference are attached. The committee is expected to give its recommendations within 04 weeks of issue of this O.M. dated 8.11.2018.

3. The committee may invite any expert to its meeting as may be considered necessary by the Chairman.
4. The committee may co-opt any member(s) as may be considered necessary from time to time with the approval of the Department of Defence Production.
5. The non-official members may be entitled to TA/DA as per Government rules applicable to group 'A' officer with respect to the work of the committee.
6. This issues with the approval of Secretary (DP).

Encl: As above



(Pankaj Sharma)

Under Secretary to the Government of India

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To,

All members of Committee

Copy to: (i) PPS to Secretary (DP)
(ii) PPS to AS(DP)
(iii) PS to JS(P&C)

Terms of Reference (ToRs) for Committee for Preparation of a Roadmap to
Develop Indigenous SDR Ecosystem

1. To study various use case scenarios including requirements specified in various RFPs of existing/future radio system and prepare a few minimum benchmark scenarios.
2. To study the state of existing standards and their roadmap globally. Further, the committee shall prescribe the set of standards including spectrum bands for SDRs which need to be adopted by India and their convergence with global standards.
3. To recommend measures for testing and certification of SDR/SCA standards. The study group should also examine the facet of standards for testing and certificate as well.
4. To suggest a roadmap for developing the following ecosystems:-
 - (a) Hardware design
 - (b) Algorithm design
 - (c) Software components design
5. To recommend how these projects can be taken forward by academia, industry individually or jointly through projects.
6. To make recommendations to identify funding needs of any nature required to give impetus to the indigenous SDR Ecosystem.