GOVERNMENT OF INDIA MINISTRY OF DEFENCE DEFENCE RESEARCH & DEVELOPMENT ORGANISATION LOK SABHA UNSTARRED QUESTION NO.1793

TO BE ANSWERED ON THE 25TH NOVEMBER, 2016

PROJECTS OF DRDO

1793. SHRI M.K. RAGHAVAN:

Will the Minister of DEFENCE j{kk ea=h be pleased to state:

(a) whether a number of projects of the Defence Research and Development Organisation (DRDO) has been delayed for several years;

(b) if so, the details thereof and the reasons therefor, project-wise;

(c) whether the Government has undertaken efforts to constitute a Commission to understand the ever increasing missing deadlines on the projects conceived by DRDO; and

(d) if so, the details thereof?

<u>A N S W E R</u>

MINISTER OF STATE (DR. SUBHASH BHAMRE) IN THE MINISTRY OF DEFENCE रारायमंी (डा. सुभाष भामरे)

(a) & (b): There are 13 major Mission Mode (MM) projects of Defence Research & Development Organisation (DRDO) lagging behind schedule. Details are given at Annexure 'A'.

(c) & (d): Government has not constituted any Commission for the same, however, DRDO has already undertaken the following steps to complete ongoing projects on-time.

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- Consortium approach is being used for design, development and fabrication of critical components.
- Three-tier project monitoring approach has been instituted.
- Project Monitoring Review Committee (PMRC) and Project Appraisal and Review Committee (PARC) meetings are held regularly to monitor the progress of ongoing projects.
- Concurrent engineering approach has been adopted in technology intensive projects to minimize time-lag between development and productionisation of the systems.
- Information Technology and modern management techniques are being applied.
- Encouraging joint funding by users to ensure their commitment towards earliest completion.
- Organisational re-structuring:
 - Decentralization of authority and responsibility with Director Generals (DGs) of Technology Clusters and Directors of laboratories/ establishments
 - > High empowerment and accountability
- Involvement of Services & Production Partners during development process and reviews – to know their views in advance including finalisation of GSQRs.

ANNEXURE 'A' REFERRED IN THE REPLY GIVEN IN PARTS (a) & (b) OF LOK SABHA UNSTARRED QUESTION NO. 1793 FOR ANSWER ON 25.11.2016

C	D at 4	Probable Date of Completion		
S. No.	Project	Original	Current	Reasons for Delay
110.		Originar	Current	
1.	Light Combat Aircraft (LCA) : Phase-II	Dec 2008	Dec 2015 (Under revision)	Technological challenges/ EmbargoesFlight test program restrictions
2.	Naval Light Combat Aircraft (LCA Navy : Phase-I)	Mar 2010	Dec 2014 (Under revision)	 Due to co-dependence of basic infrastructure in Air Force and Naval versions Un-anticipated complexities faced in structural design
3.	Medium Altitude Long Endurance (MALE) Unmanned Aerial Vehicle (UAV) :Rustom-IIø and Development of Aeronautical Test Range (ATR) at Chitradurga	Aug 2016	Feb 2017	 Design modifications/iterations in sub-systems which led to development delays Delay in availability of certified LRUs and associated software Export denial of critical items and delay in procurement of imported payloads Delay in completion of ATR facility at Chitradurga
4.	155 mm/52 Caliber Advanced Towed Artillery Gun System (ATAGS)	Sep 2015	Mar 2017	 Delay in realization of ordnance and recoil system Delays in placing supply orders due to procedural issues for manufacturing of sub-systems.
5.	Airborne Early Warning and Control System (AEW&C)	Apr 2011	Jun 2017	• Delay in finalizing operational requirements & platforms including additional requirements by IAF
6.	D-Jag System (Internal RWJ System for Jaguar DARIN III Upgrade Aircraft)	Jun 2015	Dec 2016	Critical changes in main systems
7.	D-29 System (Internal EW system for MiG-29 Upgrade Aircraft)	Dec 2012	Dec 2016	• Delay in structural modifications tasks for MiG-29 aircraft being done at RAC MiG, Moscow.
8.	EW Systems for Capital Ships, Aircrafts & Helicopter of Indian Navy titled as -Samudrikaø	Jan 2016	Jul 2017	 Change in scope of ship-borne segment of the programme to include UETs and EA coverage from 180° to 360° for Project -Shaktiø

Major Delayed Ongoing Mission Mode DRDO Projects (Cost more than Rs. 100 Cr)

9.	Long Range Surface-to-Air Missile (LR-SAM)	May 2011	Dec 2017	 Mid-way major upward revision of performance requirements by IAI (Design Authority) Number of new technologies developed first time Number of technical iterations required to establish Transmit-Receive Module technologies for Radar. Design challenges in development of sub-systems by DRDO and foreign partner.
10.	Air to Air Missile System: Astra	Sep 2012	Dec 2016	 Technology/ design challenges Delay in availability of critical components
11.		Dec 1996	Dec 2009 (Under revision)	 Development effort was underestimated, due to lack of experience Kaveri Core (Kabini) Engine development was initially not envisaged but added later based on experience of other engine houses Flying test bed trials was added as an additional project milestone as recommended by IAF and CEMILAC Lack of infrastructure for engine & component/ system level testing in India 1998 US Sanctions: Delay in delivery of critical components & systems
12.	Advanced Light Weight Torpedo	Aug 2013	Dec 2017	 Indigenization development of 120 kW warshot battery has taken time by the development agency HBL, Hyderabad. Non availability of testing platform. Restriction in time slots for sea trials.
13.	Medium Range Surface-to-Air Missile (MR-SAM)	Sep 2016	Mar 2017	 During the development stage, systems/sub-systems has undergone multiple iterations during design, development and hardware realization. Changes in system configuration. Three verification flight trials included (not originally in the scope).
