

- (v) Government of India has decided disinvestment through IPO for 17.5% in GRSE, 10% in MDL, 25% in MIDHANI out of Government of India shareholding of 100% and reservation of upto 5% of post issue shareholding to eligible employees of GRSE, MDL and MIDHANI.

**Projects discontinued/closed by DRDO**

974. SHRI DEREK O'BRIEN: Will the Minister of DEFENCE be pleased to state:

- (a) the total number of projects that have been discontinued by the DRDO during the last three years;
- (b) the reasons for the decision to discontinue or close these projects;
- (c) the total amount of expenses that had been incurred on these closed / discontinued projects, project-wise; and
- (d) the steps taken to ensure that the discontinuation and cancellation of projects are taken at an early stage, if not avoidable?

THE MINISTER OF DEFENCE (SHRIMATI NIRMALA SITHARAMAN): (a) A total of 7 no. of projects have been short closed/stage closed/cancelled by the DRDO during the last three years.

(b) and (c) The reasons for the decision to discontinue or close these projects and the total amount of expenses that had been incurred in these closed discontinued projects, project-wise is given below:—

Sl. No.	Project Title (Lab)	Current PDC/ Date of closure	Cost (₹ in Cr.)	Expenditure	Reason
1	2	3	4	5	6
1.	Thin Film Sensing System for Kaveri Engine	31 Jan, 2018	20.75	₹ 10, 000/-	No technical activities progressed with development partner (NRC, Canada).
2.	Four Stroke Horizontally Opposed Four Cylinder Engine for UAV	17 Jul, 2014	45.80	₹ 2.7617 Cr.	Change in User requirements

1	2	3	4	5	6
3.	Fifty Five Numbers of Sudershan Mk-1 Kits for Evaluation Trials	24 Jan. 2016 (under short closure)	85.13	₹ 10.49 Cr.	Change in User requirements.
4.	Multi Mission Radar	18 Feb. 2016	193.44	₹ 6.6033 Cr. (Outstanding commitments of ₹ 3.9773 Cr. transferred to Project 'QRSAM')	Activities subsumed to Project QRSAM
5.	Semantic Service Oriented Architecture	30 Aug. 2014	4.90	₹ 18.56 lakhs	Project reformulated with a revised scope and comprehensive definition. A new project Multi-Agent Robotics System (MARS) taken thereafter.
6.	Terrain Visualization and Simulation Facility	22 Sep. 2016	9.90	NIL	Infrastructure to be developed in the project to be taken up later after technology development. The project was thus cancelled and no expenditure incurred.
7.	Lab on Chip	31 Mar. 2017	4.80	₹ 80,000	Fresh proposal to be taken up under NBC Phase-2 Programme.

(d) The steps taken/being taken by DRDO to ensure that the discontinuation and cancellation of projects are taken at an early stage are:

- More stringent review mechanisms including tracking of timely completion of reviews.

- Involvement of Services and production partners during development process and reviews.

#### **Infrastructure development by Military Engineering Service**

975. SHRI MAHESH PODDAR: Will the Minister of DEFENCE be pleased to state:

- (a) the number of infrastructure development projects in the State of Jharkhand under the Eastern Command of Military Engineering Services;
- (b) number of new infrastructure development projects completed in the State of Jharkhand and in the other eastern States in the last three years; and
- (c) the details of new infrastructure development projects in eastern India including Jharkhand?

THE MINISTER OF STATE IN THE MINISTRY OF DEFENCE (DR. SUBHASH RAMRAO BHAMRE): (a) There are 39 infrastructure development projects in planning / execution stage by Military Engineer Services (MES) in Jharkhand which comes under Central Command.

(b) In Jharkhand, 8 infrastructure development works have been completed in the last three years. 20 number of infrastructure works have been completed by MES in Bihar, West Bengal, Odisha and Jharkhand in the last three years.

(c) Out of 39 infrastructure development works undertaken by MES in Jharkhand, execution of 10 works are under progress and 29 works are in the planning stage. 80 infrastructure works are scheduled for the eastern States of Bihar, West Bengal, Odisha and Jharkhand out of which, 41 works are under progress and 39 works are in planning stage.

#### **Reforms in the Indian Army to enhance combat capability**

976. SHRI D. KUPENDRA REDDY: Will the Minister of DEFENCE be pleased to state:

- (a) whether Government intends to carry out major reforms in the Indian Army to enhance its combat capability based on recommendations of a Committee headed by Lt. Gen. D.B. Shekatkar;
- (b) if so, the details thereof along with the recommendations made by the said Committee;
- (c) the action taken / being taken by Government for implementing these recommendations; and