

GOVERNMENT OF INDIA
MINISTRY OF DEFENCE
DEFENCE RESEARCH & DEVELOPMENT ORGANISATION
LOK SABHA

UNSTARRED QUESTION NO.1458
TO BE ANSWERED ON THE 4TH MARCH, 2016

DRDO LABORATORIES

1458. SHRI P.C. MOHAN:

Will the Minister of DEFENCE
be pleased to state:

- (a) the names of places in the country in which the DRDO laboratories are located;
- (b) whether DRDO is facing criticism for its poor quality of research and development; and
- (c) if so, the details thereof and the steps taken / being taken to improve the standards?

A N S W E R

MINISTER OF DEFENCE

(SHRI MANOHAR PARRIKAR)

- (a) **Laboratories/establishments functioning under Defence Research and Development Organisation (DRDO) alongwith their locations are given at Annexure 'A'.**
- (b) **No, Madam. However, there are some instances of delay in completion of research & development, due to some of the following reasons:-**
 - (i) **Complexity of the technologies/products for which R&D is being conducted.**
 - (ii) **Evaluation of the technologies/products under severe environmental condition eg, extreme summer testing can be performed in limited time period of the year; any corrections/retesting takes one year of cycle.**
 - (iii) **Non availability of some critical & denied components & materials required for R&D.**
- (c) **To overcome delay in R&D, some of the steps taken by DRDO are:**
 - (i) **Procedures for technology complexity assessment.**
 - (ii) **Collaboration with academia & industries.**
 - (iii) **Creation of testing facilities including dedicated test ranges and platforms.**

**ANNEXURE-'A' REFERRED IN THE REPLY GIVEN IN PART (a) OF
LOK SABHA UNSTARRED QUESTION NO. 1458 FOR ANSWER ON
4.3.2016**

Details of DRDO Laboratories/Establishments and their locations

S. No.	Name of laboratory/establishment	Location
1	Advanced Centre for Energetic Materials (ACEM)	Nasik
2	Advanced Numerical Research & Analysis Group (ANURAG)	Hyderabad
3	Advanced Systems Laboratory (ASL)	Hyderabad
4	Aerial Delivery Research & Development Establishment (ADRDE)	Agra
5	Aeronautical Development Establishment (ADE)	Bengaluru
6	Armament Research & Development Establishment (ARDE)	Pune
7	Centre for Air Borne System (CABS)	Bengaluru
8	Centre for Artificial Intelligence & Robotics (CAIR)	Bengaluru
9	Centre for Advanced Systems (CAS)	Hyderabad
10	Centre for Military Airworthiness & Certification (CEMILAC)	Bengaluru
11	Centre for Personnel Talent Management (CEPTAM)	Delhi
12	Centre for Fire, Explosives & Environment Safety (CFEES)	Delhi
13	Centre for High Energy Systems and Sciences (CHESS)	Hyderabad
14	Centre for Millimeter Wave Semiconductor Devices & Systems (CMSDS)	Kolkata
15	Combat Vehicles Research & Development Establishment (CVRDE)	Avadi
16	Defence Avionics Research Establishment (DARE)	Bengaluru
17	Defence Bio-engineering & Electromedical Laboratory (DEBEL)	Bengaluru

18	Defence Electronics Applications Laboratory (DEAL)	Dehradun
19	Defence Scientific Information & Documentation Centre (DESIDOC)	Delhi
20	Defence Food Research Laboratory (DFRL)	Mysore
21	Defence Institute of Bio-Energy Research (DIBER)	Haldwani
22	DRDO Integration Centre (DIC)	Panagarh
23	Defence Institute of High Altitude Research (DIHAR)	Leh
24	Defence Institute of Physiology & Allied Sciences (DIPAS)	Delhi
25	Defence Institute of Psychological Research (DIPR)	Delhi
26	Defence Laboratory (DL)	Jodhpur
27	Defence Electronics Research Laboratory (DLRL)	Hyderabad
28	Defence Materials & Stores R&D Establishment (DMSRDE)	Kanpur
29	Defence Metallurgical Research Laboratory (DMRL)	Hyderabad
30	Defence Research & Development Establishment (DRDE)	Gwalior
31	Defence Research & Development Laboratory (DRDL)	Hyderabad
32	Defence Research Laboratory (DRL)	Tezpur
33	Defence Terrain Research Laboratory (DTRL)	Delhi
34	Gas Turbine Research Establishment (GTRE)	Bengaluru
35	High Energy Materials Research Laboratory (HEMRL)	Pune
36	Institute of Nuclear Medicines & Allied Sciences (INMAS)	Delhi
37	Institute for Systems Studies & Analyses (ISSA)	Delhi
38	Institute of Technology Management (ITM)	Mussoorie
39	Instruments Research & Development Establishment (IRDE)	Dehradun
40	Integrated Test Range (ITR)	Balasore

41	Joint Cypher Bureau (JCB)	Delhi
42	Laser Science & Technology Centre (LASTEC)	Delhi
43	Electronics & Radar Development Establishment (LRDE)	Bengaluru
44	Mobile Systems Complex (MSC)	Pune
45	Microwave Tube Research & Development Centre (MTRDC)	Bengaluru
46	Naval Materials Research Laboratory (NMRL)	Ambernath
47	Naval Physical & Oceanographic Laboratory (NPOL)	Kochi
48	Naval Science & Technological Laboratory (NSTL)	Visakhapatnam
49	Proof and Experimental Establishment (PXE)	Balasore
50	Recruitment and Assessment Center (RAC)	Delhi
51	Research Centre Imarat (RCI)	Hyderabad
52	Research & Development Establishment (Engrs) [R&D (Engrs)]	Pune
53	Research & Innovation Centre (RIC)	Chennai
54	Scientific Analysis Group (SAG)	Delhi
55	Snow and Avalanche Study Establishment (SASE)	Manali
56	SF Complex (SFC)	Jagdalpur
57	Solid State Physics Laboratory (SSPL)	Delhi
58	Terminal Ballistics Research Laboratory (TBRL)	Chandigarh
59	Vehicle Research & Development Establishment (VRDE)	Ahmednagar
