

DRDO identifies 108 Systems and Subsystems for industry to design, develop and manufacture towards achieving “Atmanirbhar Bharat”

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Responding to the clarion call given by Hon’ble Prime Minister for “Atmanirbhar Bharat”, the Defence Research & Development Organisation (DRDO) has taken several initiatives to strengthen the indigenous defence ecosystem. Towards this, A DRDO delegation met with Raksha Mantri Shri Rajnath Singh today to apprise him about 108 systems and subsystems which have been identified for designing and development by the Indian Industry only. The list of technologies is enclosed at Appendix . This initiative will pave the way for Indian Defence industry to develop many technologies towards building an AtmaNirbhar Bharat.

DRDO will also provide support to industries for design, development and testing of these systems on requirement basis. All the requirements of these systems by R&D establishments, Armed Forces, and other Security Agencies can be met through development contracts or production orders on suitable Indian industry. This will allow DRDO to focus on design & development of critical and advanced technologies and systems.

DRDO has been partnering with industry for realization of its systems. Collaborating with DRDO in the development of major weapon systems the Indian industry has matured to a stage where they can develop systems on their own. Indian industry has progressed from a ‘build to print’ partner to ‘build to specification’ partner.

The present industry base for DRDO consists of 1800 MSMEs along with DPSUs, Ordnance Factories and large scale industries. DRDO has already taken major initiatives through various policies to involve Indian industry as Development cum Production Partners (DcPP), offering its technology to industry at nominal cost and providing free access to its patents.

This initiative will support the fast growing Indian defence industrial ecosystem and will help the industry to contribute towards “Atmanirbhar Bharat” in a big way.

Appendix

Systems/ Sub systems for Industry to Design, Develop and Manufacture

S.No.	System	Time-lines	Remarks
1.	Mini& Micro UAVs	2020	
2.	Mini&MicroRoVs	2020	
3.	Un-cooled NV-IR sights for weapons (short range)	2020	
4.	Mountain Foot Bridge (Metallic)	2020	
5.	Multi Span Bridge (Metallic)	2020	
6.	Modular Bridge (Metallic)	2020	
7.	Floating Bridge (Metallic)	2020	
8.	Mines Laying and Marking Equipments	2020	

9.	NBC Shelters	2020	
10.	Armoured Engineering Reconnaissance Vehicle (AERV)	2020	
11.	Multipurpose Decontamination Systems (MPDS)	2020	
12.	Mobile Decontamination System (MDS)	2020	
13.	Solo Vehicle Based Transporter cum Tilter System	2020	
14.	Special Purpose Transporters upto 80 T Payload	2020	
15.	Loader cum Replenishment (LCR) Vehicles	2020	
16.	Anti-Terrorist Vehicle (ATV)	2020	
17.	Heavy Recovery Vehicle	2020	
18.	IR flare	2020	
19.	Tank Transporter	2020	
20.	Multi Spectral Camouflage Net (MSCN)	2021	
21.	Unit Maintenance Vehicle	2021	
22.	Unit Repair Vehicle	2021	
23.	Bullet Proof Vehicle	2020	
24.	Missile Canisters	2020	
25.	Missile Assembly Jigs	2020	
26.	Missile Storage Containers	2020	
27.	Marine Rocket Launcher	2020	
28.	Image Intensified (II)Based Weapon Sights	2021	
29.	Single Mode LASER Source(up to 2 kW)	2020	
30.	Blast Doors	2020	
31.	Fire Detection Systems	2020	
32.	Telemedicine System	2020	
33.	Satellite Navigation Receivers	2020	
34.	Fabric for Parachutes	2021	
35.	TR Modules	2020	
36.	Batteries (Ag-Zn , Li Ion, Thermal)	2021	
37.	MicrowaveReceivers	2021	
38.	Single Board Computer	2020	
39.	Hardware for Onboard Computers	2021	
40.	Pneumatic Actuator System (upto 450 kgf)	2020	
41.	Stabilization Systems for Ground Based Applications	2020	
42.	Display Systems	2020	
43.	Hydraulic Actuation Systems (upto 16 T)	2021	
44.	Electro Mechanical Actuators (upto 2T)	2021	
45.	Cable Looms	2020	
46.	Relay Units	2020	
47.	Hardware for Fire Control Systems	2020	

48.	Video converters	2020	
49.	Display Processors	2020	
50.	Navigation Radars	2020	
51.	Blast Sensors	2020	
52.	Routers	2021	
53.	Electric Power Conditioners	2021	
54.	Germanium Blanks	2021	
55.	Optical Blanks (VK 7, fused Silica)		
56.	Solenoid valve (> 10 ms)	2021	
57.	EMP protected Racks	2020	
58.	Shelters for Radar & Communication	2021	
59.	Antennas for Satellite Communication Receivers	2021	
60.	Airborne Displays	2021	
61.	PCM Decomuntation System	2020	
62.	Tele command System	2020	
63.	Transponder System	2020	
64.	Onboard SCP for Telemetry	2020	
65.	Onboard PCM for Telemetry	2020	
66.	Onboard Antennae for Telemetry	2020	
67.	High Nitrogen Steel	2020	
68.	2xxx, 5xxx,6xxx and 7xxx series Aluminum	2020	
69.	Rotary Joints	2020	
70.	Slip Rings	2021	
71.	Bearings High speed (Miniature)	2020	
72.	Torpedo Tubes	2020	
73.	Pressure Transducers	2021	
74.	Bus Controllers for 1553, CAN, 1773	2020	
75.	Power PC Back Planes	2020	
76.	Umbilical Connectors	2020	
77.	RF Cables	2020	
78.	RF Connectors	2020	
79.	Miniature Bearings	2021	
80.	Slewing Rings	2021	
81.	MIL – Connectors	2020	
82.	MIL – Relays (Electro Mechanical)	2020	
83.	MIL – Relays (Solid state)	2020	
84.	Pressure Tight and Non Pressure Tight Cable	2020	
85.	Pressure Tight and Non Pressure Tight Connectors	2021	
86.	RF power Amplifier	2020	

87.	Bulk Up Converters	2020	
88.	EMP Power Line Filters	2020	
89.	EMP Data Filters	2020	
90.	EMI/EMC Filters	2020	
91.	EMI/EMC Gaskets	2020	
92.	Composite Materials Sea Water Pumps 40TPH & 125 TPH	2021	
93.	Miniature Self-regulating Dual Flow JT Cooler	2021	
94.	Solid State TTR, CTS, TAR Magnetron for OSA-AK-M	2021	
95.	Amplidyne	2021	
96.	Secure Customized 3G/LTE end –Points (Handsets/Dongles) for Mobile Network	2021	
97.	Pressure Measuring Instrument for Aircraft Application	2021	
98.	Air Data Probe for Aircraft Application	2021	
99.	Pumps for Aircraft Application-Hydraulic	2021	
100.	Nose Wheel Steering Manifold	2021	
101.	Angle of Attack & Angle of Side Slip Sensors	2021	
102.	Rotary Actuation Aggregators for Fighter Aircraft Application	2021	
103.	Total Air Temperature Probe	2021	
104.	Potentiometer for Aircraft Application	2021	
105.	Fuel System Components for Aircraft Application	2021	
106.	Marine Desalinations for Life Rafts	2021	
107.	Absorption Type Air Conditioning System Based on Waste Heat Recovery	2021	
108.	24 Gigabit Ethernet switch	2021	

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