

**GOVERNMENT OF INDIA
MINISTRY OF SCIENCE AND TECHNOLOGY
DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH**

**LOK SABHA
UNSTARRED QUESTION Dy. NO. 2940
(TO BE ANSWERED ON 16.12.2015)**

PRISM SCHEME

2940. SHRI PRALHAD JOSHI:

Will the Minister of SCIENCE AND TECHNOLOGY be pleased to state:

- (a) whether the Government has received any proposals under the Promoting Innovations in Individuals, Startups and MSMEs (PRISM) scheme;**
- (b) if so, the details thereof during the last three years and the current year including the areas of focus of these proposals, phase/category-wise;**
- (c) whether the Government has disbursed any monetary support for the proposals under the scheme; and**
- (d) if so, the details of the amount so far disbursed?**

ANSWER

MINISTER OF STATE FOR SCIENCE AND TECHNOLOGY AND EARTH SCIENCES

(SHRI Y. S. CHOWDARY)

- (a) Yes, the Government has received proposals under the Promoting Innovations in Individuals, Startups and MSMEs (PRISM) scheme of Department of Scientific & Industrial Research (DSIR). PRISM is a 12th Five Year Plan scheme initiated in May 2013 with the broad objective of supporting individual innovators develop working models, prototypes and/or processes based on their innovative ideas, besides supporting autonomous institutions and societies in developing state-of-the-art technology solutions.**
- (b) The details of proposals received since the inception of the scheme are as given below:**

Number of proposals received	178
Number of proposals recommended by the PRISM Advisory & Screening Committee	57
Number of projects supported	30

The projects supported under PRISM, phase-wise and category-wise, indicating the area of focus, are listed in the Annexure.

- (c) Yes, the Government has disbursed monetary support for the proposals under the scheme.
- (d) Year-wise financial support provided for the proposals is summarized below:

<i>Category</i>	<i>Funds released year-wise (Rs lakh)</i>		
	<i>2013-14</i>	<i>2014-15</i>	<i>2015-16</i>
PRISM Phase-I Category-I	Nil	8.244	1.10
PRISM Phase-I Category-II	Nil	74.0238	44.18
Total	Nil	82.2678	45.28

The details of financial support provided for the proposals are as indicated in the Annexure.

ANNEXURE

**Department of Scientific & Industrial Research
Promoting Innovations in Individuals, Start-ups & MSMEs (PRISM)**

**DETAILS OF FUNDS DISBURSED TO PRISM PROJECTS
[2013-14, 2014-15 and 2015-16 (until 12/12/2015)]**

PRISM_Phase I_Category-I:

[Financial support upto Rs. 2.00 lakh to individual innovators for proof of concept/prototype/model]

Sl. No.	Projects funded indicating area of focus	Funds released (Rs. Lakh)		
		2013-14	2014-15	2015-16
1.	Power operated garlic and onion bulb cutter: <i>A cost effective garlic and onion bulb cutter which gives a clean cut, so that rejection of the bulb is reduced.</i>	--	0.55	--
2.	Motorized car jack: <i>An economical and user friendly motorized car jack powered by a car's internal battery with a button system.</i>	--	0.935	0.50
3.	Oil and stain cleaner from Carambola (Star Fruit): <i>A device is to produce a stain cleaner from the waste pulp of carambola fruits, which will be able to remove oil stains from metallic surfaces, hands and other parts of human bodies, painted surfaces of cars and other vehicles.</i>	--	0.88	--
4.	Cost effective portable chalk board eraser cleaner: <i>A cleaner to separate dust from the surface of a felt pad.</i>	--	0.22	0.35
5.	Baby pee foretelling and alerting system: <i>A device which senses the micturition (just prior to urination) point and alarms the caretaker.</i>	--	1.10	--
6.	DTMF (Dual tone multi frequency) Control Logic for Automobile Wind Shield Wipers & Washers: <i>A dual tone multi frequency control based personalized wind shield wiper and washer device for automobiles.</i>	--	0.264	0.25
7.	Development and commercial extraction of bio-product from biomass: <i>A process for production of edible bi-carbonate from biomass.</i>	--	0.935	--
8.	Partial replacement of sand by foundry waste to make M30 Grade Concrete: <i>A process of making M 30 grade concrete by replacing fine aggregates with waste foundry sand.</i>	--	0.66	--
9.	GEYSER DAAN: <i>An innovative chulah for cooking purpose and for also providing hot water, through optimal regulation of heat flow and better fuel utilization.</i>	--	0.22	--
10.	Improving the existent Laser Tag to make it suitable for a wide spectrum of applications: <i>An indoor physical game/ fighter model where players/soldiers move in teams/groups, which can be useful for both gaming industry as well as defence related applications.</i>	--	1.16	--
11.	Efficient composting of Bio-degradable waste through Mesophili Aerobic Rapid Composting (MARC) Method: <i>A composter for composting various types of house-hold materials.</i>	--	1.32	--
TOTAL		--	8.244	1.10

Contd.....ii/-

(ii)

PRISM Phase I Category-II:**[Financial support upto Rs. 20.00 lakh to individual innovators for fabrication of working models/prototype/Testing and trials/patenting/technology transfer]**

Sl. No.	Projects funded, indicating area of focus	Funds released (Rs. Lakh)		
		2013-14	2014-15	2015-16
1.	Development of biodegradable Sanitary Napkins: <i>Environment friendly sanitary napkins for use by women.</i>	--	3.85	3.00
2.	Transient 3D framework for seeding and expansion of Cells towards delivery <i>in vivo</i> and therapeutics: <i>A simple, cost effective and environment friendly technology for cell expansion and delivery under regenerative medicine medium with minimum possibility of cell infection and dedifferentiation.</i>	--	9.90	6.00
3.	Plasma expressor with semiautomatic top and bottom for use in affordable healthcare: <i>A top and bottom equipment for separating plasma to generate Leuko Reduced Red Blood Cells and reduce adverse blood transfusion reaction.</i>	--	2.20	3.50
4.	Improved hydro screw turbine generator: <i>An improved hydro-turbine generator that is scalable from 1.0 kw to 500 kw.</i>	--	0.55	5.77
5.	Mechanical Hoe: <i>An agricultural implement developed for saffron farming.</i>	--	0.3927	1.45
6.	Pesticide mixer cum sprayer agricultural pump: <i>A multipurpose agricultural implement useful for farmers in hilly regions.</i>	--	0.3795	1.90
7.	Low cost diagnostic and correlating device for shoe-bed design: <i>A device for design of patient-specific shoe-beds (insole), especially for diabetes management.</i>	--	1.10	--
8.	Low cost sequence Embroidery Machine: <i>A simple and elegant machine for application- specific sewing machines for productivity enhancement in intricate Zari & Zardozi work.</i>	--	4.235	--
9.	Wireless Informer: <i>A system providing theft information in the form of ring alerts with several advantages over existing devices.</i>	--	4.235	0.75
10.	A jacquard punched card reader for Digitizing Woven Designs: <i>A novel digital jacquard loom for weaving fabrics.</i>	--	8.25	--
11.	Autonomous Driving System for Ground Vehicles: <i>An autonomous driving system for ground vehicles which allows a vehicle to drive itself intelligently from one location to another without requiring any human assistance.</i>	--	15.125	--
12.	Hollow brick manufacturing machine and accessories: <i>A machine for manufacturing pre-moulded hollow bricks.</i>	--	1.65	10.00
13.	On-board-equipment (OBU) for in-cab signaling and control of trains: Development of OBU to <i>be used in Loco cabins (train engines) for better information management.</i>	--	4.18	--
14.	Innovative energy saving furnace with recuperator: <i>An improved biomass based furnace.</i>	--	1.067	11.81
15.	Removing particulate matter from engine exhaust: <i>A device for trapping and removing particulate matter from the exhaust of an internal combustion engine, without increasing back pressure.</i>	--	5.5576	--
16.	Solar powered portable Cardiac Monitoring unit: <i>A multifunctional 4-in-1 solar powered portable cardiac monitoring unit for use by heart patients.</i>	--	1.782	--
17.	Design, development and performance evaluation of Eco-Trapin—3: <i>A simple retrofit designed waterless urinal based on HDPE material that can be fitted at the base of a urinal bowl, working on green mechanical technology.</i>	--	2.97	--
18.	Novel DIVA ELISA Kit for detection of Paratuberculosis infection: <i>A DIVA (Differentiate Infected & Vaccinated Animals) ELISA Kit, a diagnostic tool for detection of Paratuberculosis infection in animals, for use in Animal Husbandry.</i>	--	3.30	--
19.	Development of Kits for Direct PCR Amplification of Plant DNA: <i>A kit aimed at amplifying plant DNA without its isolation, and purification of the same through mechanical processes.</i>	--	3.30	--
TOTAL		--	74.0238	44.18