

LOK SABHA
UNSTARRED QUESTION NO.4606
FOR ANSWER ON 22/07/2019

STEEL DEVELOPMENT FUND

4606. SHRI PARBATBHAI SAVABHAI PATEL:
SHRI NARANBHAI KACHHADIYA:

Will the Minister of STEEL be pleased to state:

- (a) the details of the financial assistance given from the Government's Steel Development Fund and Plan Fund to encourage the R&D activities in the public and private steel sectors during the years 2017-18 and 2018-19;
- (b) whether the said financial assistance has been helpful in achieving desired results in the steel sector; and
- (c) if so, the details thereof?

ANSWER

THE MINISTER OF STEEL

(SHRI DHARMENDRA PRADHAN)

(a)to(c): Yes, Sir. The details of the financial assistance given from the Government's Steel Development Fund and Plan Fund to encourage the R&D activities in the private steel sectors during the years 2017-18 and 2018-19 are given at **Annexure-I & II**. No financial assistance is given from the Government's Steel Development Fund to Public Steel Sector.

Annexure - I

R&D projects Funded from Steel Development Fund (SDF)			
S. No.	Recipient Name	2017-18 (In Rs.)	2018-19 (In Rs.)
1	MAHATMA GANDHI INSTT. OF TECHNOLOGY, HYDERABAD	35,13,910	9,16,860
2	I.I.T. (KANPUR)	-	14,99,023
3	GOVT. COLLEGE OF ENGINEERING, SALEM	6,00,000	-
4	NATIONAL INSTITUTE OF TECHNOLOGY, TIRUCHIRAPALLI	12,00,000	-
5	I.I.T. (KHARAGPUR)	36,02,419	-
6	GOVT. COLLEGE OF ENGINEERING, PUNE	37,20,000	14,10,000
7	MALVIYA NATIONAL INSTITUTE OF TECHNOLOGY, JAIPUR	33,45,222	23,04,329
8	PSG COLLEGE OF TECHNOLOGY, COIMBATORE	24,43,878	-
9	I.I.T. MUMBAI	11,39,20,000	-
10	BIT SINDRI	27,19,200	4,54,800
11	I.I.T. (MADRAS)	11,20,20,000	-
12	NATIONAL INSTITUTE OF TECHNOLOGY, WARANGAL	6,00,000	-
13	MAHARAJA SAYAJIRAO UNIVERSITY OF BARODA	17,85,240	20,85,240
14	NATIONAL INSTITUTE OF TECHNOLOGY, DURGAPUR	25,10,400	8,05,200
15	VISVESVARAYA NATIONALINSTITUTE OF TECHNOLOGY, NAGPUR	21,86,121	2,41,360
16	NATIONAL INSTITUTE OF FORGE & FOUNDRY TECHNOLOGY, HATIA RANCHI	22,99,615	23,83,535
Total		25,64,66,005	1,21,00,347
Source: JPC			

Annexure-II

A. R&D Projects Funded from Plan Fund			
Sl. No.		Funding in Rs. Lakhs	
		2017-18	2018-19
1	Development of Automation System for Optimum Coal Blending at Coal Handling Plant of Coke Oven Batteries by RDCIS.	-	147.00
2	Development of Cost Effective Refractory Lining Materials for Induction Melting Furnace suitable for production of Quality Steel by CGCRI & NISST.	33.00	-
3	Development of Dry Slag Granulation Technology and Energy Recovery System for Blast Furnace Slag for Producing Clinker Compatible Product by IIT Madras & JSW.	-	29.43
4	Development of infrared camera based torpedo ladle car condition monitoring system by MECON.	-	19.50
5	Development of nickel free nitrogen austenitic stainless steel for biomedical applications by IIT BHU.	-	28.06
6	Indigenous Development of Model based Breakout Prediction System (BOPS) for Continuous Casters by RDCIS.	133.23	-
7	Development of Fluidised Bed Reduction Roasting Process for slimes & low grade iron ores by utilizing thermal grade coal for their magnetic susceptibility properties and maximizing the iron recovery by IIT Madras & JSW Steel.	-	21.06
8	Production of low Carbon & low Phosphorus Ferromanganese by metallothermic treatment of high Manganese Slag using Silicomanganese by NML Jamshedpur.	-	34.00
9	Reduction Roasting and Microwave Heating of some difficult to treat Ores for the production of Pellet Feed Concentrate by IMMT Bhubaneswar.	-	30.00
10	Modeling & Optimization of High Concentration Iron Ore fines /concentrate slurry Pipelines for Indian Iron Ore Processing Industries by IMMT Bhubaneswar & NMDC Ltd.	-	64.50
11	Development of a cost effective green technology for Pre Reduction of Chromite Ore in Tunnel Kiln and Production of High Carbon Ferro Chrome in SAF by NISST, NML & MECPL.	161.00	70.02
12	A Novel Approach of Making Green Belite Cement from Electric Arc Furnace Steel Making Slag by IIT Kharagpur.	111.48	12.96
13	Amorphous Electrical Steel (AES) for Energy Application submitted by NML Jamshedpur .	847.47	135.49
14	Development of Design Guidelines and Specifications for utilization of steel slag in road construction by CRRI.	-	286.50

15	Development of super alloy grade 625 & 825 for commercial market by MIDHANI.	-	200.00
16	Optimisation of floatation process for Indian Coking Coal using advanced Pneufлот Floatation Cell by IMMT.	-	74.74
17	Fundamental process engineering to minimize re-oxidation of steel during teeming via a ladle shroud leading to improved castability and cleanliness by IIT Kanpur.	-	130.25
18	Conversion of emitted CO ₂ to chemical fuels by IMMT.	-	49.45
19	Development of newer Cementitious Materials using Chemically Activated LD Slag by CBRI.	-	120.00
20	Integrated cost effective technology for attaining Zero liquid discharge in steel plants with emphasis on slag utilization by CIMFR.	-	12.12
21	Synthesis of Kudremukh Iron Ore Mine Tailings based Geopolymer Aggregate using Fly Ash as Precursor in Construction Industry by KIOCL.	-	11.20
22	Waste Management of Generated Sludge from Indian Steel and Steel Related Plants: A Sustainable Business Model by BITS Pilani.	-	23.72
Total (A)		1,286.18	1,500.00

B. Projects Funded under IMPRINT Scheme of MHRD			
1	Indigeneous development of a ultra high strength steel with stainless property for space application by IIT Kharagpur (Project No 6456).	25.50	-
2	High strength, wear and corrosion resistant steel for high speed rail and elastic clip by IIT Kanpur (Project No 6777).	45.00	-
3	Model based optimization tool (EAF_OPT) for enhancing Energy Efficiency, Productivity and Yield of Electric Arc Furnaces by IIT Kanpur (Project No 8014).	43.32	-
Total (B)		113.82	0.00
Grand Total		1,400.00	1,500.00
