

Y.S. RAJAN
Adviser DST
Executive Director & Member Secretary TIFAC

No.1-D/Adv(R)/95

14.3.1995

Dear Prof. Satish Chandran,

I am extremely thankful to you for your continuing guidance and advice on various matters concerning TIFAC including the Home Grown Technologies. I am particularly thankful because with your deep knowledge in a number of areas you are devoting considerable time in looking at the materials we sent. This insight really benefit us in our action.

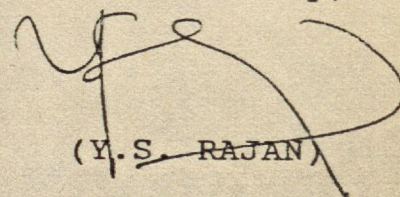
Apropos our discussions on the presentation, I am enclosing herewith the material which is the internal homework leading to the presentation. Particularly you may like to begin from my earlier note of 7.2.1995 and also the note of Shri N.K. Sharma, MD, NRDC dated 8.2.1995. These themselves were generated after considerable discussion. I have given lot of thought and also used considerable amount of data available before I wrote the note of 7.2.1995. This was discussed in detail in a meeting of the Small Group on 8.2.1995. Subsequently I had written the note of 27.2.1995. All the copies are there in this enclosure. There is also a copy of an article from Harward Business Review.

I hope I will be able to discuss with you sometime since I believe that these papers contain sufficient data regarding actual working experience of several of Indian S&T programmes (especially some valuable insights about the linkages between scientific research and actual end-use including commercial application). I have also given some data regarding the amount of funds available for various phases of the A to E chain in a separate sheet.

I am also enclosing a copy of page from Science & Technology Pocket Data Book, 1993 of DST which may also be useful for cross correlating certain expenditures.

With kind ^{personal} regards, & respects

Yours sincerely,



(Y.S. RAJAN)

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Approximate expenditure that may be available for various segments of innovative chain in India.

Between A to B

SERC - About Rs.25 crores per annum.
CSIR - About Rs.100 crores per annum.
DST autonomous institutions - About Rs.20 crores per annum.
All other extramural of various forms like ICMR, STAC, etc - About Rs.200 crores per annum.

Between B to C

HGT - About Rs.5 crore per annum.
PATSER - About Rs.5 to 7 crores per annum.
NRDC - About Rs.10 crores per annum.

Between C to D

SPREAD - About Rs.15 crores per annum.
All Venture Capital - Around Rs.30 to 50 crores per annum.

Between D to beyond E

IDBI funded around Rs.25 crores per annum.

Other internal funding for productionisation of indigenous technologies by industries (private and public sector) may be on the order of about Rs.200 to 300 crores per annum based on an approximate figure of Rs.10,000 crores which is quoted as the total annual production of indigenously based technologies.

The above may be compared with our overall GDP and also expenditure on S&T in the country. Of course a good bulk goes to Space, Atomic Energy, DRDO and ICAR.