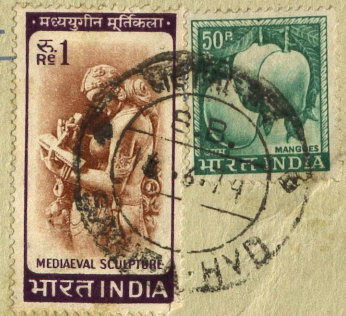


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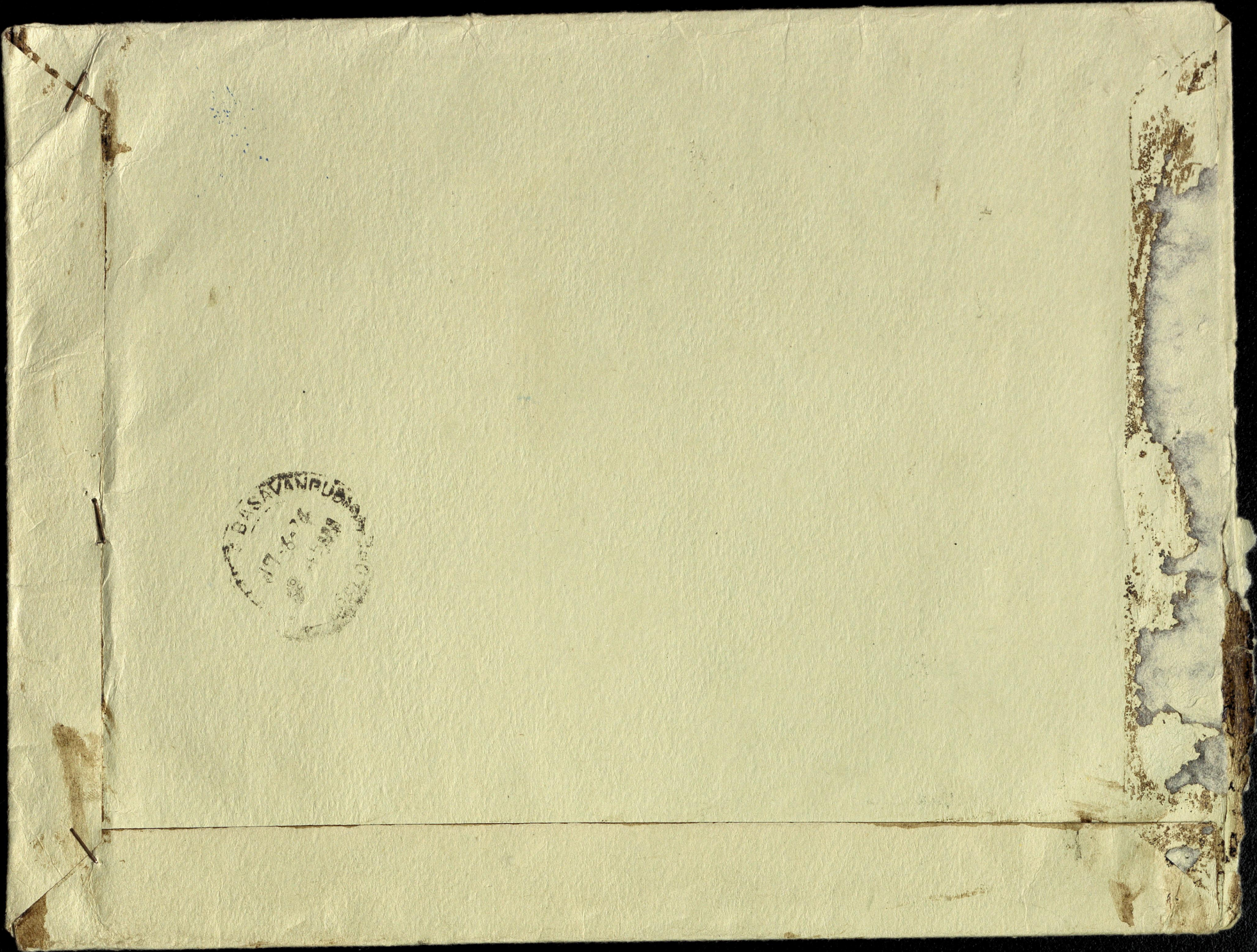
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Mr Regd parcel

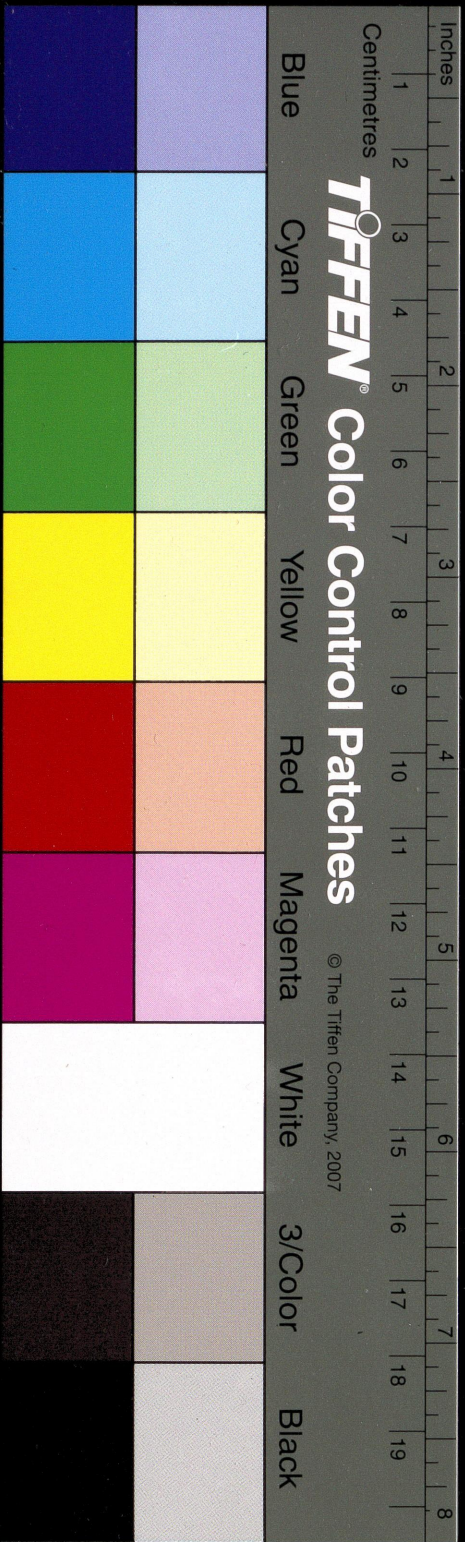


To
Prof. B.S. MADHAVA RAO,
No.4, Kanken Halli Road
Basavangudi,
BANGALORE-4.

From
V NARAYANA RAO
Director
DLRL Hyderabad-500005



VANPU
L.P.



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Hyderabad
22-8-77

Hey dear Babu,

I am sending here with the 10 copies of the biodata, list of publications etc as desired by you.

I am grateful to you for all the trouble you are taking. But there is a lot of politics in all this and if nothing happens this time, you may please drop this matter and not worry yourself unnecessarily.

All well here

With best regards
yours truly

V Narayana Rao

Inches 1 2 3 4 5 6 7 8

Centimetres 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19

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Blue

Cyan

Green

Yellow

Red

Magenta

White

3/Color

Black

BIO-DATA

- 1. Name : VAKKALERI NARAYANA RAO
- 2. Date of birth : 20.12.1921
- 3. Designation : Director Grade-I, R&D Organisation, Ministry of Defence
- 4. Present pay : Basic Rs. 2625/- (in the payscale of Rs. 2500-125/2-3000)
Total Rs. 2857.50
- 5. Address : Defence Electronics Research Laboratory
Chandrayanagutta Lines
Hyderabad - 500 005
- 6. Research Interest: Electronics
- 7. Field of specialisations: Radar, Radio Communications

8. Academic Qualifications :

<u>Degree</u>	<u>Year</u>	<u>Subjects</u>	<u>Institution</u>
B.Sc (Hons)	1943	Physics	Mysore University - I Class
M.Sc	1944	Physics	-do- - I Class I Rank (Purna Krishna Rao Gold Medalist)
M.Sc Tech	1948	Electrical Communication Engineering	Manchester College of Technology

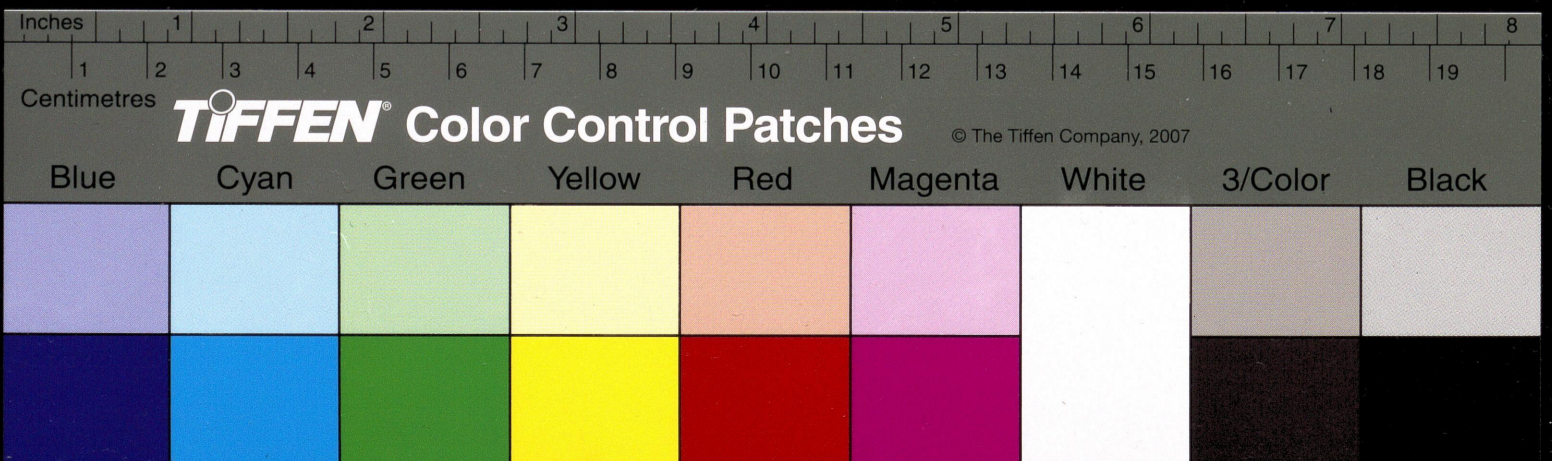
Diploma of Marconi College of Wireless Communications, Chelmsford (1946)

9. Administrative & Managerial Experience

<u>Post</u>	<u>Period</u>	<u>Institution</u>	<u>Nature of duties</u>
Lecturer	1952-54	Indian Institute of Science, Bangalore	Teaching Dept of Electrical Communication Engg
Officer-in-Charge	for 5½ years during the period 1954-62	Naval Physical Laboratory, Cochin	Administrative & technical responsibilities as the Head of the Estt.,
Director	1962-upto date	Defence Electronics Research Laboratory, Hyderabad	-do-

10. Research Experience:

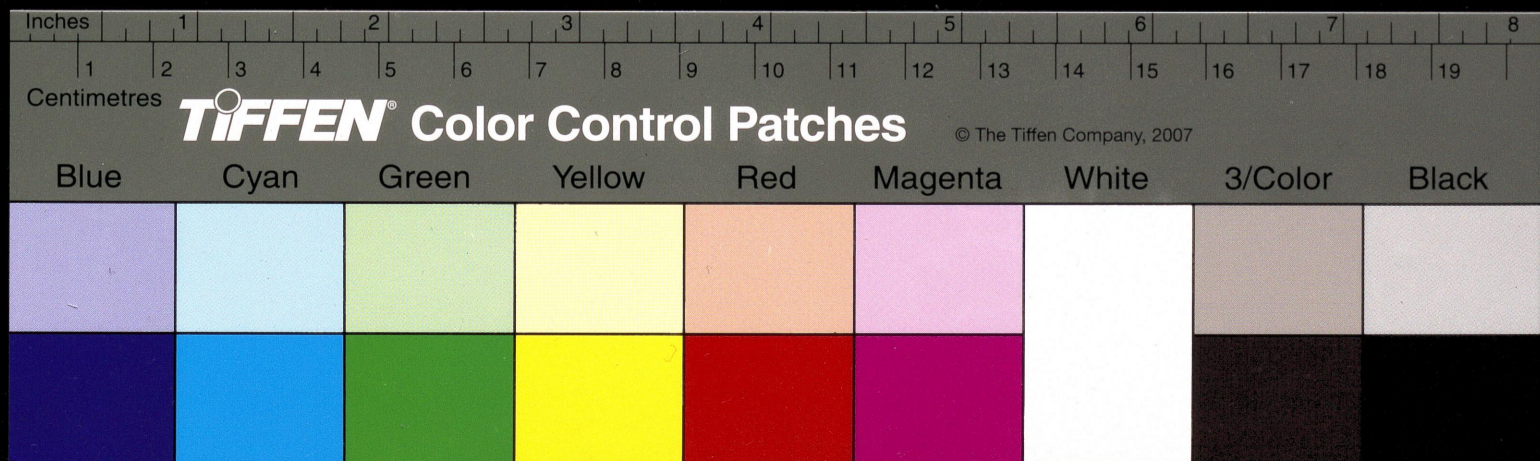
Research experience of over 24 years in the field of Electronics. At present head of one of the major R&D Establishments, namely, Defence Electronics Research Laboratory, Hyderabad, with an annual budget of more than Rs. two crores and employing more than 1000 personnel.



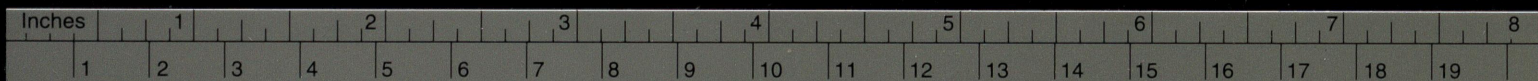
LIST OF PUBLICATIONS OF THE NOMINEE

Subject of paper	Journal in which published	Issue of the Journal indicating pages
(a) <u>Original research papers</u>		
1. "Some Aspects of the Spectrum of Modulated Pulses"	Journal of the Indian Institute of Science	Vol. XXXVI No.1., 1954
2. "Experimental Investigation of Noise associated with Modulated Pulses"	Proceedings of the Indian Academy of Sciences	Vol. XXXVIII, 1953
3. "An Expanded Time-base using a Miller Integrator"	Electronic Engineering	June 1955
4. "An Electronic Sea Wave Recorder"	Transaction of the American Geophysical Union	February 1957
5. "A Modified Periodmeter"	Electronic Engineering, London	July 1957
6. "Fluctuations of the Sound Transmitted in the Sea"	Journal of the Acoustical Society of America	July 1958
7. "Application of Electronics in Oceanography"	Proceedings of the First Defence Electronics Convention, Bangalore	1959
8. "An Instrument for Measuring Small Changes in the velocity of Sound in the Sea"	Indian Journal of Pure and Applied Physics	1963 Vol. 1 No. 2 pp 69-72
9. "Design of Triplate Line Low Pass Filter"	Journal of the Institution of Tele-communication Engineers	Vol. 10, No. 6, 1964, pp 212-218
10. "L-Band Negative Resistance Parametric Amplifier"	Journal of the Institution of Telecommunications Engineers	1968, Vol. 14, No. 12, pp 75-78.
11. "Log-periodic antennas from 1 to 4 KMC/s"	ITE Symposium of 1965	
12. "An S-band Cavity backed Helical Antenna"	U.ITE, 1968	Vol. 14, No. 3 pp 122-127.
13. "Design of an X-band Vane type Phase Shifter"	J. ITE	Vol 13, No. 11, 1967, 428-436
14. "A lower sideband negative resistance Parametric Upconverter"	Proc. of the Indian Division of Electronic & Radar Engineers	Vol. VI, No. 2 pages 48-52 (Apr-Jun 1968)

Contd....2



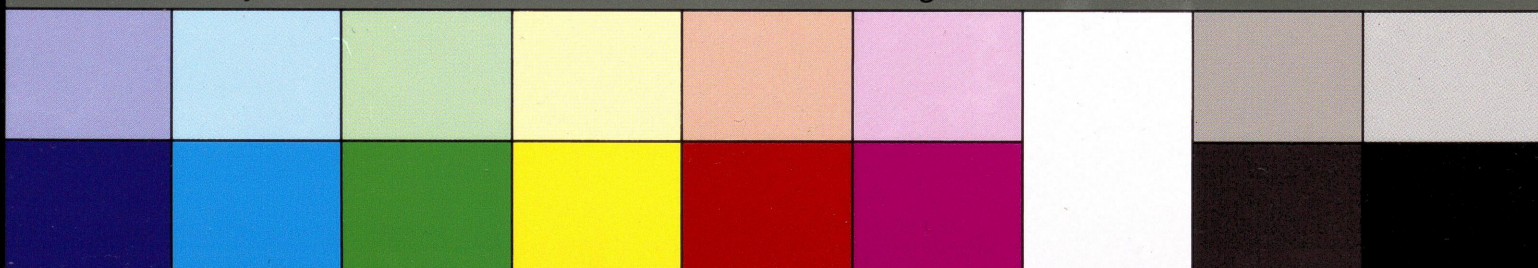
Subject of paper	Journal in which published	Issue of the Journal indicating pages
15. "Design of a Parametric Up-Converter"	J of Institution of Engineers	Vol. II, 1965, pp. 388-391
16. "Design of a Cassegrain aerial in the X-band"	Presented at the Symposium on Antenna, RTRC, CSIR	Aug 1968
17. "Radio Propagation problems peculiar to tropical countries"	Presented at the CDSO Symposium on Communication & Defence at Australia	May 1969
18. "Analysis of Radar Clutter Environment"	Presented at the Symposium on "Creative Radar Technology" held at LRDE, Bangalore, Oct 73	
(b) <u>Papers of general nature</u>		
19. "Maximisation of results out of indigenous R&D effort in Electronics"	Presented at the National Conference on Electronics, TIFR, Bombay, Mar 1970	
20. "Electronic System of the Seventies"	Presented at the Symposium on "Technology in the Seventies" in Delhi, July 1970.	
21. "Key Note paper on "Non-Radio Communication"	Presented at the CDSO Symposium on Communication & Defence at Australia, May 1969.	
22. "Satellite Communications for Defence Applications"	Presented at the CDSO Symposium on Communication & Defence at Australia, May 1969	
23. "Application of Digital Concepts of Communication"	Presented at the "Symposium on Electronics" (TIFR) held at IIT, Madras 8th to 10th March 1971.	
24. "Survey of development in digital communication Systems"	Journal of Institution of Engineers (India)	Vol XLVII, No. 12, Pt ET3, Aug 67.



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From: Dr. B. S. Madhava Rao,
No. 4, Kankanhalli Road,
Basavanpudi P.O.,
Bangalore - 560004

Shri. V. Narayana Rao, M.Sc., M.Sc. Tech (Manchester),

Director, D.E.R.L.,

Chandrayanagutta Lines,

X. Hyderabad - 500005

