

INDIAN SPACE RESEARCH ORGANISATION

HEADQUARTERS

MEMORANDUMPERSONALStrictly Confidential

For : Prof. S. Dhawan

File / Ref:

From : Y. S. Rajan

Date: 10/2/76

Subject: Possible Assignments.

1) As explained to you earlier, I don't think ~~an~~ ~~crisis~~ there is a crisis in my HQ role for another couple of years, unless I am boxed in into "service" role to others by the useage of keywords like ESA, communications, applications, ~~etc~~ technology, satellite etc.

2) I have attempted a scenario of possible $\&$ roles, with realism. I hate to blow my trumpet: trust it does not pierce your ear drums.

Regards

Rajan
10/2/76

To: Prof. S. Dhawan.

PAST BACKGROUND AND POSSIBLE
FUTURE ASSIGNMENTS

* As discussed, unless I complete some important and recognisable activity in the next few years, say by 1980's my future could be seriously affected. My age is around 32 now.

A BRIEF SCENARIO OF MY CAREER PROFILE

Briefly my past experience can be listed as under :-

| <u>Years</u> | <u>Activity</u> | <u>Role</u> |
|--------------|---|---|
| Upto 1964 | Education | |
| 1964 - 1966 | Research Scholar - Building Balloon & payloads & ground system, study of research problems etc. | "Line" |
| 1966 - 1969 | Building rocket borne transponder, system design to hardware delivery. | " Line " In-charge" from around beginning of 1969 |
| 1969 - 1970 | a) Qualification & Productionization of Transponder | " Line " |
| | b) System Engineering of planning of various onboard & Ground Electronic systems for SLV-3 | " Line/staff" 50% - 50% |
| | c) Preparing & getting approval of budgets for some ELD activities such as parametric amplifiers etc. | " Line " |
| 1970 (5 nos) | ISRO - MIT Studies | Engineer/Analyst |

...more

| <u>Year</u> | <u>Activity</u> | <u>Role</u> |
|---------------------------|--|----------------------------|
| 1970 - 1973 | a) NASA/GSFC with ATS project Team (Defacto-I worked in telling modifications etc to Fairchild) | "Line/staff" 50% - 50% |
| | b) Later portions in 1972-73 ISRO Rep (additional responsibilities) | Staff/Laision In-charge |
| | c) 1972-73 In-charge of ITLU (additional Respon) | Laision In-charge |
| | d) Inputs to ISSP | Staff |
| | e) Decisions on component Specs., for ISSP | Line |
| 1973 end to Beginning '74 | Staff to Director SAC, & Programme Manager SITE | Staff |
| 1974 - now | a) Staff to Chairman | Staff |
| | b) Some analytical studies in personal capacity or member of working Groups | Engineer/ Analyst. |

POSSIBLE FUTURE ASSIGNMENTS

* Some realistic ideas on this are presented in Table-1 which is not in the order of priority. Also one item I feel as preference one is expanded briefly in Appendix-1

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| Sl.No. | Job | Desired Roles | Remarks |
|--------|--|--|--|
| 1. | Spacecraft Manager in the team that is earmarked for INSAT-1 | Should be in-charge for project team for procurement of spacecraft. (other procurements may have other managers) | <p>a) I feel confident in delivering a good spacecraft in time & within cost especially due to my experiences at GSFC</p> <p>b) Only problem seen is the <u>fear of direct</u> reporting to Pramod Kale. If this can be amicably settled, then no other problem envisaged.</p> |
| 2. | Apple Team | <u>Since</u> Vasagam is identified for possible no.1. ^{for} the whole project, would desire for a no.2 position in the whole project. | No problem envisaged. But without being identified clearly as no.2 the role could become diffused. |

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| Sl.No. | Job | Desired Role | Remarks |
|--------|------------------------------|---|---|
| 3. | Back-up INSAT team | In-charge of Back-up team which has to interface with INSAT-1 team abroad, Apple, and SEO & RS-1 teams And eventually in 80's start a full steam activity | No problems envisaged. Fully confident & well suited for this. (A brief write-up on this is enclosed) Would consider it <u>first Preference</u> |
| 4. | Others as opportunity arises | As Chairman sees fit, either within or without ISRO | ... |

Rajan
9/2/76

INSAT BACKUP TEAM

- * The main task of the team is to keep in touch with INSAT-1 team abroad, Apple team, and other spacecraft groups in ISRO, such as SEO, RS-1 teams and other doing TDP elements in satellite area, and plan the manpower, facilities and activities in India, so that INSAT-3 (either refurbish^{ed} or building) can be done in India. (Note that we will have two satellites in orbit)
- * The team will be a spacecraft team predominately, with a limited number of persons to interface with users. The team will contain spacecraft engineers, spacecraft operations engineers and some limited member of ground station engineers.
- * When the foreign INSAT-1 team and Apple team are formed this backup group can be limited to an In-charge supported by 2 or 3 engineers and over a year expanded to 10 or so.
- * Maximum strength ^{when} ~~will~~ INSAT-3 building activities start, could be 25.
- * One important aspect of this team is to influence SEO, RS-1, APPLE, & INSAT-1 teams & TDP activities in such a way that building of INSAT-3 is done in India with least problems. At the same time such influencing should be done without affecting the ongoing activities. Hence
- * there is a low profile but important role.
- * The team should report to ^{the} Satellite Program council/ Chairman ISRO at least once in 3 months. Also at a lower level a Management Board can be formed to thrash out many issues.
- * I do not envisage any problem at all to be in-charge of such an activity. Also for about a year or two this can be done by playing double role: In-charge of the study team & HQ staff role. This is easy because the roles are synonymous for a while.

* I have both system engineering background and considerable understanding of problems of INSAT-1 team, APPLE team etc. Human interfaces will be quite fine and will be like a system engineer role for some time.

* In this process, it may also be feasible to act as an "ex-officio" system Engineers for INSAT-1 Manager and/or APPLE Manager.

* Naming an In-Charge for The Back up team need not prejudice ^{selection of} future Manager.

Rajan
9/2/76

Personal

GOVERNMENT OF INDIA
INDIAN SPACE RESEARCH ORGANISATION
ISRO HEADQUARTERS
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BANGALORE 560009

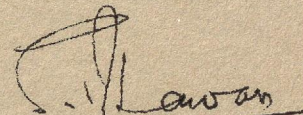
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30 December 1975

OFFICE ORDER

Consequent on Prof P D Bhavsar's transfer to Space Applications Centre from January 1, 1976, all matters dealt with by the Scientific Secretary, ISRO will be referred to Chairman, ISRO.

Shri Y S Rajan is appointed Assistant Scientific Secretary, ISRO, with effect from January 1, 1976, until further notice.



(S. Dhawan)
Chairman
ISRO

To

Members : ISRO Council

→ Shri Y S Rajan

Prof P D Bhavsar



भारत सरकार
GOVERNMENT OF INDIA
भारतीय अन्तरिक्ष अनुसंधान संगठन
INDIAN SPACE RESEARCH ORGANISATION
(ISRO)

TELEPHONE : 29822
TELEGRAM : ISRO
T E L E X : 043-499 ; 043-326

ISRO HEADQUARTERS
F BLOCK, CBAB COMPLEX
DISTRICT OFFICE ROAD
BANGALORE-560 009, INDIA

S. Dhawan
Chairman

No. HQ:ADMN: 12.1

1st January 1976.

Dear Shri Sundararajan,

I am glad to inform you that ISRO Council has approved your promotion as Scientist 'SF' in the grade Rs 1800-10-2000-125/2-2250 (Revised) with a basic pay of Rs 1800/- (Rupees Eighteen hundred only) with effect from January 1, 1976.

I hope that this recognition of your services will encourage you to continue to give out your best in the fulfilment of the objectives of ISRO.

With best wishes,

Sincerely yours,


(S. Dhawan)

Shri Y. Sundararajan,
Scientist 'SF',
ISRO Headquarters.



TELEPHONE : 29822
TELEGRAM : ISRO
T E L E X : 043-499 ; 043-326

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GOVERNMENT OF INDIA
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(ISRO)

ISRO HEADQUARTERS
F BLOCK, CBAB COMPLEX
DISTRICT OFFICE ROAD
BANGALORE-560 009, INDIA

No. HQ:ADMN:12.1

1st January 1976.

OFFICE ORDER

Shri Y. Sundararajan, Scientist 'SE' is promoted as Scientist 'SF' on an initial pay of Rs 1800 (Rupees Eighteen hundred only) in the scale of pay of Rs 1800-100-2000-125/2-2250 (Revised) with effect from January 1, 1976.

Shri Sundararajan will draw his next increment on January 1, 1977.

(S. Dhawan)
Chairman

Shri Y. Sundararajan,
Scientist 'SF',
ISRO Headquarters.