

(1)

31/7/14

Chapter - 4 (1970-80)

Notes

Periappa's death
22 Nov 75

Periappa death
21 Dec 1971

Vikram Sarabhai
30 Dec 1971
(News 31 Dec)

- Dec 13, 1973 note to Raj Y.P. So many

* print. See ~~the~~ a copy

* Mulkpachar

+ Bio date + ref see in

the file of writing

* 1974

~~Lagor~~

- * March 31, 1975 note to Raj Dharan

Bill Saults
Dick Nickelson
Chinese Mustard
First Checker
Pajj Aeror
TV Simpson
Navy Syle bath
B. A. D → The places
where in male
om letters charge
Dar Kress

NASA Tears
Good luck R.S.
Calculators
Radars
Nathan
Nuclear
Sketches

Gill Bullcock
Abe
Sun
Astronk
Not knowing style
Greg's Parts
Shipping
Gomedin
Lobe culture
Tony
Pam
Tula

Aug 7, 1970.
The 4 pm
Life Science
Opposes Patent
Against Alum Phils
Kissing by Bill Saults
Tinalu lab - 65% a
mess
Rohini (RS-1)
MIT

1974 elec
1972 273
1972 273
Rushy my
gift Aug 2, 1970
Rehim Mess up
by a fur with
Lima + Jean.
in Oct 1973
annor.
Alliance
\$450k

Shipping
Gomedin
Lobe culture
Tony
Pam
Tula
Barbara
Dick
Barnes
Harvard
MIT

Flight sign

- Systemic Aryabha (ISSP) → PgsDhan
descri. I worked out process

Aug 7, 1977 order (Tus by URRO
of A 1974)

*
- Note
to YP
Dec 13, 1973

✓ 27/75
24/12/1975 Note Pgs Dhan -

dup observations on SLV-3 Pgs

✓ 27/2/1976 internal note - Input

✓ 24/2/1976 → ^{Guides} ISRO Analytical Capabilities
(good note)

- 4/1/77 Note Handwritten

personal

(I Indian S&T Anal'm ISR. in cluster
- My future)

23/8/77 Note to Ch & Y.S. Dan
Personal Promth

26/8/77 → Handwritten note: My social
outlook as well (in addition to
ISRO role "Marx-Lite et) worth quoting

31/8/77 Summary action: Indispensat, Aerospace
Consortium!

Sept 5, 1977: Science Policy Paper - all India.

4/7/75 Handwritten note - ISRO's
personnel might inspecting an order
styles of people incl Kalam as SLV-3

15/5/77 India & Space Program

* My "marxist" world view - India's role
etc - ~~sp~~ role of space -

* Emergency
Working of
ISSC

Cinema *

Chapter 4

- 3 -

3/12/77 Military Space Act w/o encl.
Tyler

23/4/79 Handwritten - Crisis with Jai.

SAD MOU → Strong note on Sh Mex
fragility DOS - ISRS HR.

27/10/80 Director Launch Serv & Plan
→ to accommodate Kalam in HR

* There is a paper 70-80 or 80-90
where Pysd has written YS Kap: I have
disagreed with Director (Green ink)
quite a

4/7/75 note → to go (898) → (709)

27/Jul/1976 note → to go ~~772~~ after 768 → 771.

16-3-1976 → after 72772.

26/9/76 → after 825

26/9/76 Secer → after 831

25/11/76 → after 845

26/11/76 → after 852
Impartir
par

22 June 1976
1st note

→ after 871

22 Jun 1976
2nd note

→ after 901

all done
in my
running text

21/04/17

Attachments in context

- 1) After p. 959 → 960, 961, 962, (963) MIS
→ 4/1/77 Person handwritten note Done
- 2) 18/1/77 note - Remite Semp & Rari
5 page Hand written - wssc folder
→ (967, 968, 969, 970, (971) Missed ← Done
- 3) 30/3/77 handwritten 4 pages
✓ 988, 989, 990, 91 ✓ Done

(4) 15/5/77 Handwritten 8 page
✓ Dur Sub India & its space
993 to 1000

(5) 15/5/77 6 page Handwritten note
✓ wie Same way as 1004 to 1009

(6) 17/6/77 note ✓ 1036 to 1044
✓ miscl. annexd
of Feb 2, 1977

25 Sept 1976

Also Dep note }
820
821
Done

~~1074 Missed~~
~~1076~~
if not found records

Voice Recorder

- 1) Folder 01 M.R. Kurup recorder on ^{oct} 10/28/2018 10:23 AM
- 2) Folder 01 Mahendragiri site selection Rajchagappa et al on ^{oct} 10/30/2018 about 4:40 pm.
- 3) Folder 01 Indira Gandhi Consultative Committee ^{DFVPR} - Death - my observation recorder ^{oct} 10/31/2018
- 4) Folder 01 UN COMPOS NPS, DBS, RS ~~10/31~~ 10/31/2018 Principles
- 5) Folder 01 RRSSC est related Krishnan Chinni, Gita Varan et al UPRSAC Chairman's Vote on ^{Nov} 01/11/2018
- 6) Folder 01 ADRIN/DIPAC ^{Nov} 01/11/2018
- 7) Folder 01 Books I read ^{Nov} 01/11/2018
- 8) Folder 01 - Personal life of 1980's some glimpses 02/11/18
- 9) Folder 01 02/11/18 Dr. Brahm Prakash BP related - SPECIAL

(10) Folder 01 ~~#8~~ recorded on
11/11/2018 Transition from
~~Nov~~ S. Dhawan - briefly mentioned
about YP \rightarrow his letter to me
dt Sept 22, 1984. #5D
briefing me

(11) Folder 01 Recorded on 13/11/2018^{Nov}
Selection to IAA (Ind Acad of Astronautics)
~~and~~ my articles to Academies INSA,
IASek \rightarrow PVI in INAE, Then IIC.
(Covered all of them)

(12) Folder 01 on 19/11/2018 On
URR Decade Profile Presentation
to Rajiv Gandhi - VPSigh - Manu
Mohan Sigh; Sonia Gandhi in prep. car
before that etc.

(13) ~~NAR~~ Folder 01 19/11/2018
NNRMS Cab. Note Approval
MGK Memm letters -
Some of his earlier Assoc -
IPIIC \rightarrow NRI ~~join~~ joining

(3)

14) ^{Folder} ~~INST~~ File 01 20/11/18 ^{Nov}

~~INS~~ INSDOC Committee Ramakrishna
Report - some brief quotes from it
(My extra ISKCON's general S&I
activities brief mention) Jan 1985

The ~~S&I~~ letter to Sid on Science
philosophical My letter to him on 11/12/1985
Sept 10, 1985 - on

"Scientific Creationism & Rationality"
by Mr. Michael Cavanaugh in
Nature Vol. 315, dt May 16/1985

My observations of on Science future is
humanity etc. Have touched upon Islamic
Fundamentalism - ~~as~~ emerging too

15) ^{Folder} File 01 20/11/18

On TN Seshan brief recap on his role
in DOS - Then his transfer to Delhi
- Rajiv Gandhi Assassination Attempt -
TNS report & rise - introducing
his role for my transition -

not completely TNS - Much more
later in ~~1988~~ later 1980's & 1990-2000
1990 - 2000 r.

(4)

Folder

16) ~~File~~ 01 on 21/11/18 Longish dictation 41 min Transition to

URR → ~~at~~ VSSC treatment; brief about SD not creating positions for seniors; URR choice; VRA execution; VSSC suppression

etc - my letter of 31/5/1986 to SD clearly depicting phytomy ISRO people

→ some of it dictated in with my comms; My letter to SD ~~with~~ Aug 23, 1986

with letter to URR to give me position.

~~later~~ a little bit of IMD first phase my getting out. SD isolation; RRD humbly

etc. ~~the~~ These papers to be put together

Folder

17) ~~File~~ E01 : On 22/11/18

On IAF VP of URR¹⁹⁸⁶ - CR Sathya

& me. A Air India First Class flight

JRD Tata; URR idiosyncratic

IAF to India; but I could not attend as KR Narayana ¹⁹⁸⁸ ADOS (SET) visit

to Australia

to Australia

(5)

18) Folder 01 on 22/11/18 Longish
My first IMD ~~attempt~~ request for ~~Gen PMO~~
URR refusal - S&T shake up by
Rajiv Gandhi - His Parlia speech on S&T
for Common Man - MAK Problems -
Arun Singh VS Asurachalan - Migra interact
with Arun Singh R G familiarity with
me - some details Kavahu Telescope Visk
- I explain to ~~Rajiv~~ ^{Rajiv} Gandhi - ek
God's Grace I did not get IMD; explain ut
CNR Rao inihal finching as Chair SAE & PM;
SAE-PM ^{review} ~~edit~~ of ISRO - hilarious comets
by SD

19) Folder 01 on 24/11/18 Trying
to help my HR colleagues before
my transition - ~~to~~ PNT, Chandra
Krishnan Varma - K Rad → his
giving problems to KV. VLS ineffective
ek. Concerned paper handwritten by KR
is referred → to take care in paper conti-

6

20) Folder 01 on 24/11/2018

Missed commercial opportunities
to ISRO in Kerala Govt Commercial
Companies SEP/MDA (brief
reference to Pstn & TT Corp under
SD). Main focus in SEP/MDA
what happened with VRR

21) Folder 01 on 24/11/2018

How my transition to DST/TIFA
worked out... TNS interest - VRR
etc. - TNS advice on making a
paper for forwarding → Papers
referred briefly → How I got
my approval from VRR (has notes on
it with referred in dictation)

Earlier order - These papers together
to be taken care of in written
papers regarding folder - My
career (grade) progression from
Res. Scholar to DST - one sheet.

(7)

22) Folder 01 - ^{re copy 25/11/18} SD's concerns on
~~RS~~ R S/^{NNRMS} activities & my role as

* EOS/NNRMS, EOW new Centre

* * My detailed note...

~~SD~~ His HANDWRITTE note
& Sec. Secy ISRO order ^{Secret to IGR} - the
ones he ~~attest~~ ^{perhaps} tries with Pagar

Small point of KR's trial...

→ My ^{Lead up to} ~~Lead up to~~ ^{Transition} My detailed note to have

Transition → Also refer June 2, 1984

NNRMS and

* * * ~~Lead up to~~

23) Folder 01 25/11/18

A seminal paper by me on
Integration EOS program along
with Met Mar 9, 1987

My blunt references to
problems of INSAT EOS separation
of IND... D&P. His frank
admission SD Handwritten Notes

Small item → His note - . . .

(8)

12/

24) Folder 01 ~~Given~~ on Dec, 10/18
Glimpses of life & in Andant'sh
Very quick notes - may be need
elaboration later - ~~not~~. But some
major items covered (No papers)

25) Folder 01 Dec, 10, 2018

~~EMP~~ ISRO to DST Transition

* Important events & summaries

Many papers involved - incl

Some Misc to TNS, Reddy et al.

Lines beyond my joining 1988

to 1989 CNR ~~HR~~ creating

Problems of for VRA; remarks on
TIFAC

* Papers to Sam Alford on his work
Important Summary

MAK letter to me 1988 → Very good

* Summary of ~~my~~ NNRMS for 8 years
which MAK notes.

(9)

(25) Amht Dec 10, 2018
~~Clings~~ (ISRO - BT form ...)

* A note on my work ^{Oct} 1985
probably for VRS to take me
process file → But it summarizes
all my ISRO work 1984 - 1986.

* A "pickup order" @ 1.1.1988
where I stand in last

IMPORTANT

My ~~note~~ ^{note} to Reddy → on Academic

Note ⁱⁿ letter of SD to me ~~on~~ on
Education etc

My handwritten note to SD
on ISRO (after I left) 'Oct 1989
A Problems in ISRO - Many other
features (15 mins after I
left ISRO)

(10)

26) Folder 01 14th Dec 2018
Last phases of transition from ISRO
- URR - Ruby to Delhi - problems
of house etc - early DST work etc
In a way last phases of ~~89~~ 1989-90
Many copies. Early workshop of TIFAC/
DST.

* 27) Folder 01 14th Dec 2018
IPR related matter which
starts is very early in 1988 in DST -
K R Narayana MS (S&T) - A V. Somena
Indo-US IPR problems - my
direct involvement - my direct learning
& actions of IPR. Ignorance of
S&T ~~top~~ top Admin - loose
talks - Critical Indo-US negotiator
Ohima Bordia - P. K. Kaul (on Ambassador
in USA) etc → Reference to leading
of IPR cell.
~~S&T~~ Ltr to Dr. B. Ramaseshan
V. Imp on S&T for Current Science - Some
glimpses of my view on collapse of USSR
also 1989 - Tiarmanin Square

(11)

(28) Folder 01 ~~16~~ 15/12/18
~~early~~ 1988
Australia visit with
K R Narayanan — brief
+ IAF

(29) Folder 01 . 15/12/18
Long one — Title ^{cleanup} VRG's internal
processes of DST span 1988 — end
1989
Contains ~~some~~ early persons
who helped me — some burden also
VRG's internal restructuring —
FCS — Many more. All
important initiatives. . .
~~Some~~ Agri launch
Some poems. Rohana Vijay Verra
Some problems of Rajiv Gandhi et

(30) Folder 01 15/12/18
(1989)
Garbage Processing Plant

(12)

Slum toilets - Orsany
Some brief - MGR notes
P B Krishna Rao - Montek

Ahluwalia comments -
Mahabhi (data)

~~S.~~ P. P. Gupta + S.

P. D. Majumdar, ~~Carbonyl Process~~
Sreenivasa Setty

Anjan.

Some comments on Amant
Swachha Bharat.

(34)

Folder 01 → last item

Dictated on 16/12/18

My early phases of Delhi life
Personal; quasi-personal;

VPSigh as PM → TNS problem
MGR is rush for NCT

Misc tidbits from ISRO day
Early ISRO help for AP Mb

END of chapters 1988-90

(1)

Just the offer order came - July 1988
VRG desires that I join immediately -
TIFAC, DST work pressure on him.

VRG did not wish me even for formally
→ That way open → cowardly - Any body leaving
him is disloyal, traitor...

Only thing he told: "You were hardly...
- know to know what is what -
My reply: Ask any one in office - Beautiful
Topsec. in capt - keys

Then VRG: "You were hardly 4/5 things. I will
~~not~~ distribute them... If you come back
then you may not get any of them."

My reply: "Of VRG... I understand... You don't have
to worry... I will not embarrass you by returning to
ISRO/Des!"

As expected no send off after 14 years of
hard work in ISRO... I don't remember what SD did/when
I spoke to him etc Any after nearly four years, he was
isolated... He was not even in Advis... only Markham
→ Comment on what he told me (1985)

J. Raja arranged a small send off in ISRO/HR.

Formally Vijay announced in RICE BE (Mech)
- Vikram scholarly → SD refer to his sister
*As Shree my friend
was not happy after that*

Go home & keep...

Q

Transfer to Delhi → July 7 FNRAN

I had to rush → No Qhs ready...

Uma, ~~Arjun~~, ~~Vijay~~ & Benji: came later... Vijay Joiner → We all stayed in DST GH

After I got an apt... Trunkles

Mumbai search before I kept it

Operator by SOI

↓

Dans. Ranulph

Doubtful about So they used as by putting Electron

Vijay work

CSTR VTP Scumb

adm DNS → Not bit take charge bill all over account for TNSMami - How to elector

Maybe I was crazy wh taking it easy in trash

Benji: Glutton Same with in IAC

Amara level Qhs DST VRA for

School Admin Mrs. Loumba S.D's school

No garage Crest gate

Describe in flat

Check of sym. ↓ (Task) ↓ Dates hire site Mithi B Lumbha when on spiridale DPSA Blue Bell

Add. Set Rank → IAS no use others vs No help from VRA, TNS at check Busl Spaid. - time

Mrs. Sesham first those fellows in

(3)

~~of Smith~~ - TIFAC Council format
1987, 1993 + 3 Council
letter.

See Folder 02,

~~2) 2.81)~~ 4 → See the
written item in yellow peg

31/12/18

I - 1' 1990 - 2000

Going back to early 1990 -

5/1/88

Jan 29, 1988
L. of Prosc

22/6/88

Lynn

ACC

ORDA

- Some additional details about my absorption in DST. ~~1989~~

6/7/88 joint - ~~to~~ one year deputising

< 6/7/89 -> should have been absorbed
TNS could have done it. The

file came for one year more extension
TNS later told RAdis not want
to lose you for ISRO - Let us wait

< 6/7/90 -> one more year extend

note Interest with ymak (It could have
screws 9/6/90

Advh

6/7/90

Chose letter
see by 3 min

~~Then Acc 6/7/90~~

28/9/90 - Ultimatum for ACC for 3 month.

Done
11/1/91
Folder

1991 TIFAC Annual Ext 1st 1988
Rana Rao letter -> ~~Sec 19 91~~ ->

Still they were troubling

They can
beat
already
me

ISCA avra
Janak

- (2) -

31/12/18

Series of letter to Png Dhawa
Obituary 1990

Envelope keep in
order

Connect as how he has carefully
kept → numbers etc.

Folder -02
on 1/1/19.

2/1/19

Possible Groups for dictation in VR

I ~~A~~ NMPP Project | SAIL ~~Done~~
R-S. Ganapathi

Made
SAIL to pay
& give with
TIFAC

VK recruited

RSA → ethical problem - pra

Sumita Wadhwa → Tapa for it

↓
She was deployed into TIFAC

for composition -
Had to dis. due to NSV.

His pay fixation
Arvind Pantley

↓ RSA Nothing concrete

His desire to extend further

VK to PRR

~~His~~ PRR pressure

difficult to combine → IIM rules

Then PRR writing to PRIMAD,

→ Ahwa, SBK & me

Dhulakia strong reply
that ...

→ Get him out.

→ He was supposed to submit in Mar

→ Rajiv Gandhi Fundat → Draft → RSA

→ finally I cleaned up

~~SIA folder~~
~~on on 3/1/19~~

VK letter
IIM
not ans

All
three

NSV

From selection to end game.

~~It is~~ Time

~~Did not join~~ Join late ... Then
old parent excuse ... not on travelling.
~~No~~ Treated ~~to~~ the hypocrisically
Driver

Reminds of NAC secret in ISRO-ESA
programme → Trouble with the work.

So did not put Sunita with him though
she was most knowledgeable...

No work self promotion...

Flamby: Kalam nae MIT as if he
was the "teacher"

~~She~~ A note from me ... is earlier now
in Missions...

It was Ben ↔ B. R. Somasekh

5 years over asked for extension... I did not

→ ~~buried~~ Pressure from Kalam ... ~~PRR~~
[Some personal finish in Bangalore
Callig Mission MTS (PRR ahead of
I was in CII... Pallet out Ruksham

↳ Periyar...

Work a note of his work to accomplish in the pe
~~Sastra~~ Nothing done

Oiver ↔ I got Sastra Refe.

Vimal Kuro

~~Not as~~ S. Bism & Vimal
as PSO → The drive of VRA, NK
to get good talents.

Not as unkl. as S. Bism; but ~~me~~

Very practical → pushy -
TMS great credit

Then HGT.

Once he had ~~every~~ much of TIFAC

work... Great doca... Out of TMS
ann emerg Fly Ash Misso

There were some rumors of his taking

small bribes from Consultants...
Talked to SR in extenso.

Boxed him... Process central with SR → Great
Then HGT equally boxed... Also got reliable info Admm expe

At Fly Ash Mission...
Kiran Zachar
Others too Mathur ek

No time. Became aurogat too...

Rao - Alagh → Anoojini episode → A nasty letter engin by him
Pulled out HGT → Sajir Mubh

TMS → Dism.
Restrict to Fly Ash...

Lastly when I was in PSA office → A Bantoh
Company → Har I salvage
(P.T.O)

Some TMS done by S. Bismas
↓
Reliance
epist
They were ready to pay

3/1/19

5/1/19

Mid 1990's China, E-Asia

1994 Visit

- China
- Shops of 1981 → Not seen
 - Also ~~some~~ the county trilets
 - The hanging meat shops
 - Many High rise
 - The Great wall made
 - Tianan Square → lot of tourists
 - Mangers and old type of hotel -
Mount → Not the spate geyse
 - The old type warrants of persons
not there →

Diagrams
02/1/19
SE 15 Polder 02

Thailand :- The traffic - Fay

- The Buddha temple → Aod Lam
→ Foot sum by side.

But temple clean - devut per
Astrology syn... Agr

A Buddha Meta -

Payoff

A direct ya lab - Lady saw
he built a gym on top → Keas

Food of am. enjoyed
Did not take massages

~~Indonesian~~
was only
20/6

Malaysia - ... Various (P.T.V) Singapore
Roar

- Mustafa
- Museum
- Mungankovil

Women
achieve in public Mostly walket.
like Women headgear → beautiful
clothes - design

Mid 1990

Viet Nam

- Many ~~cycles~~ + 2 two wheelers
- Chevrolet Roor
- Went to Seven Hill /
up to five Forget to
take a
inhaler
--

Later Indonesia

Further

(1)
Vision 2020

Worth
on 2/1/19

Process →

2x Nov 1993
93 end decision. They wanted in

6 months - May be an year.
I had studied the Japanese Processes
Leant for Boron also → Also we
had copies of the Japan STA...

~~How~~ - I knew it will be more.

- Selection of sectors were critical.
SAT persistency will be to
select subject areas of their interest
Also to do detailed Industry Sector
like Leather, Skel will be too narrow - too
much. TIFAC had repats in most of
the narrow sector.

How to aggregate - without being too
general? Most important to the Economy

Social Benefit. Involving lots of people (eg. Agood
New emerging areas. ~~Strategic~~ strategic with direct

Didn't want that to be left to me on
and wanted ownership by DST / Council etc Military
Forces P.R.R to be the Chair of such select
and wanted him to come for meeting -
Sign up with CFI too get Edub vice (Bij) Lani
+ many other - Series of meetp

Porter's Book of Comparative Advan
GDP growth ~~1.2%~~

Arrival at final list and some
chain + Co-chain. Some mentas

(ii)

~~Gov~~ Present to TIFAC and Probable
around Mid-1994.

~~Thou~~ I estimate finalise by end-1995
and have it out print etc March 1996

Therefore 1995 + 25 years = 2020.
Person who told ~~his~~ Perfect Vision was PPK

Attached ^{TIFAC} persons to each of it (like
NVRMS style)

NA sectors Driving Forces & Impediment → PVT

Task forces / Panel → CEE... ^{contract}
But it all been ~~later~~ directly

Infrastr... result Mutnaka

Realising
spent it
in Agor for
Pm

In-between Pubk → SK Shah eye

Services Ram Mohan Rao... Plugger in S. Boin
as Coord.

Take from Book

Mc Intosh

Fixing of Chami

→ Pmt.

Sikhar
Bhat

Distahf,

5/1/19

SLIS
Folder

ISRO - Academic Interface

— RESPOND ... Cambridge

IMAR
IRS-UP

Now?

Explain
prob

— ISRO - ~~Inst~~ IISc Sp. Tech. Ce. Poor

— ISRO - IITB ... Good

Almost all
DST projects
had a build

— R SD → Binjy CNRR :

has he ever?

— JNCER Publⁿ
SR Valluni Comets.

Along with
us after
Kumar
man

— IIT-B Nag Missions 10%

← PVRI ... meechy with Emmanu Scm

PRR ... 14 days

DST
PP

— Leading to Mission - REACT
TIFAC - CORE

↓
DST's
— DST's FIST etc.

Reason
RED

ICOSER

VRA
SERC
↓
or

~~4~~ (i) 3/1/19

Another set: Scientific

How My views on Scientific approach evolved → Nehruvi
Marxist → Scientific Soc → early advicd com

- I have seen NASA Mgmt Styles

- SA → Appeared a great force of Sci. /
Aud → Finally ~~at~~ as it goes up subjective

Dictator
3/5/19
Folder

Same in politics / ~~the~~ Bureau
→ Same Policy! But See, Min.
Party

SL 17 → Cha
Came to Delhi... I can't see
that there is no rationality
- All petty ~~ideas~~ politics
conches in ideological terms.

SEE
NEXT PAGE
SL 18

H → Haksar poses... This series of work
First is "Compass of Tech..."

Man's
Devel
4 arch
Mans → 10
Fadkones
101 unit.

Core of my thought for Vision 2020 lab

No single solution → Multiple
Haksar Comm

→ Mins from Matter ... Drinker
→ Mins Cell Man
→ Su

My view as
NCSTC
of VRA (Nand
My articles in
Science Com.

1986?
Refer
an earlier
letter

At the same time Ramana Pillai Episode
(PIO) I am strictly agn

Teleducation/telemedicine etc., which may not have markets, if TT for ISRO hardware is transferred.

Thanking you and Antrix for giving me an opportunity.

Regards,

Y S Rajan

(ii)

Media

Payutto writings.
This letter

Truths in History - India
Tarrant

Sl 18
Science Methods

My talk in Dakr Mer.

Expan

Combined Methods of Science.

Susantha
Aonab lake

↳ falsifica

Anekanta
Talk

Science, Engg
Indul Mark

Ambridge So
& Happ

Diakab

My arhel
on TRUTH

(i)

On individuals in TIFAC / DST

Instr

S. Ramareth: Before I came VRA had him as. Consultant only every six months

Dic 11/19
m 6/1/19

What SR told me how he was surprised.

Earlier in TERES: How the idea of one side Doppler for Ka-Band Rejected... To illustrate his bill Controller v SSC; I think cover

Folder 02
sl 19
SERC

Then VRA told me to shift to TIFAC even while he was use. Over a period it shifted all to TIFAC. He was anchor in TIFAC for technical integrity, quality etc for TMS reports.

Lin

He would meet me often
Refused over a period though I was getting his report...
Vmail handling...

- Water Technology's Report... Very good one.

- After going to CII / esp SA off lesson met
But...

- How he wanted to be there in TIFAC off
I left Oct 2002 for I Tu
Nov 2002 TIFAC He was out Dec 2002
I had given back

Dictation in Individuals

P. Sahas
 Sarsak Nangro
 Jancy Kangle
 Achla
 Kedar Singh

Sunita Washwa

- Kalapana

↓
 Anuprot
 ↓
 ICOS E
 ↓
 IATAFI

↓
 TMS
 ↓
 Then left
 ↓
 Anurajani

Anna
adms

↓
 Manis
 ↓
 in USA
 ↓
 War in Iran

Gl. 20
 Folder 02
 6/1/19

↓ → A paper with her
 for Anubin Cafe
 can in Kope
 ↓
 into trouble
 ↓
 Gave govt to UK
 ↓
 Did her PhD
 ↓
 work

TIFACLINE
 Howardis

Radhika
Rani

L.N. Rajaw
 An from CDOT
 (No influence SR get her)

Bright ...
 ↓
 Manis Tildak & Way off
 to USA?
 ↓
 TIFACLINE to CMC
 (also useful for Selby)

Shrika Chopra

↓ Train
 in NCST
 ↓ T. Chawar
 TIFAC & Web
 ↓
 Reluctant to Leave
 Her Itobard she came
 I told her to leave
 (This is after I came
 back for PTU)
 ↓
 Now guy gree

Some residual (MII) on Dr. S. Ramath → Poen
→ S. Pan on Ban L

SE No. 21
Sreenivasa
Selty
Folder into DST for
Change Project
1/19
Then in CMC (B'w)
↓
TO FIFAC

At one point
as ED TIFAC | To come to
Process | Delhi
Paper then
↓
Sister's Home Tragedy

Over
But I continued in
TIFAC
↓
He took care of
CMC
+ other projects
of DST by VSR

S. Ramanatha

From my ISRO day
↓

Then in DST per
↓ PKBis

Great work
on S&T
↓

S. Ambhi

all about
+ INSA.....

R. Saha
Gancy
Sangeeta No

Janey
Kisan Za
Achla

(IV)

Joint Secy

D. B. Sehgal

N. K. Sinha
FCS.

in Dictabank
9/1/19
Folder 2 8222

B. K. Chakraborty
Tinit
Stabilise

S. Samyit Chose
Great mup

S. B. Krishna — TDR
later FA 8/2/20

SBK / Double
MMS / when to
VSR
N/A sm

MMK
~~Chose~~
SBK
Fly paper

in TIFAC
staff

M. M. Bandana

Vimal
Kumar
Panna site

Tolesme
K. Kumar

Sarin
~~Sarin~~

Brief
Period

To get
the TIFAC
Buildup things

(V)

Soumbara Birmas

Dr.ihal
Jungpaj

Then Star

Adv. Camp

Wojan

Conjio
Sangeta
Narya

Excellent
unt.

SH's have been
ED...

Deepak
Shahans
ASE

R. Saha

How I met mb clear.

T.S. Aravind
& Dah

V.K. Jain

(famous by SBK)

N.S. Naras

Ahujja

R.S. Pr DNSingh

T.S. Aravind

Dr. V.K. Misra

Dr. Chah Supranu

09/1/19 folder 02 & 23

Dr. Laxman Prasad

S V Subrah

M.P.R. Narada

* *

Zakaria

Principle by 15 PM Reg...

Rawo Aiyagiri

became puriful under PRR

Sexue [A case of a lady
Han Proj in IJED

5/24

Partly
market

~~VIKRAMS~~

~~AADHAR~~

His letter to me 1985

My letters to P.N. Harker
long ones ↓

leading to Jawahar

Then subsequent

are in Laptop
one of the Discs.

as ~~###~~ Scanned letters

TEPP Refer to

Then more
on Announcements

Sl24
(iv)

Am Anderson

Vision 2020
SKS

→ First Mtg as she saw

For Conductor Poly and with Be

↓
Ponthe

PRR
NA
help

Troubles w/

→ Hm I stopper

Tam Nader
Ant offe
ek

↓
CIRI as Mi

Vision 2020
Bio Tech

+ Park Agr
for SKS

↓
Troubles

TR did not help
AD

↓

TR - AAMJ

↓
Indo Fran

→ Tam Nader
This I was
SKS
Be me

↓

CIC ← Discaale
are

Great
SST
type
cost

- Vijay's job
in Nagda

BITS study → MS

Vikram applies PCMB

↳ Eng
Met
Pha

1994
Full job



- Narada post

↳ Tubna

Thengip → B'lon



Back to Delhi



Mang

ek

Sl. 25
Personal ek - 2
folder
Go to next
page

(1)

Items to be covered

7/1/19

~~1990~~ - 1993 Vijay settling down. in Nagda
Vikram in study ^{study over} yett

So some financial relief \$ 25

1994 → House loan.

Built the Nalanda

Keeps ~~Sony~~ signed cheque with Do RV
Milestone
Not for rent amcup

Uma's Great desire.

~~1995~~ ~~Start~~ 1994 ~~End~~ 1995 beginning

Trick for my Spl. Secy ship.

No politicking with CNR, or Cab. Sec

But things got Kalans & PRR letter
No action by them - ^{Kalans} ^{have} ^{to} ^{have} ^{to} ^{have} PRR!

Hope needed - Sony letter SD
can be seen

July 1995 → PRR ask me to write
for Spl. Secy when he has

lost his extension case

On the conversation Reluctant to give
a note.. Dips is the

~~July 19~~

VSR came to see him

~~PRR~~ ~~asked~~ me was waffling

~~me~~ about his lunch - I offered
to give at ^{Quilubha} nearby

Later PRR told he was touched by
it

PRR's
worry get
amcup

Kalans -
Kalans gave a
Rs 1000 self
action

Ex Bear
RAMah
dis. like
Wadem

SBR
MMK

Who?
might
have
stopped

Letter for
Cab Secy was
back

VSR had
no action

4/2/19

— Medical facilities

in Delhi

Comms manager

→ Addl. Secy position

Sp. P. once ear

Agnihotri

~~DRDO~~

Checkup

Basel

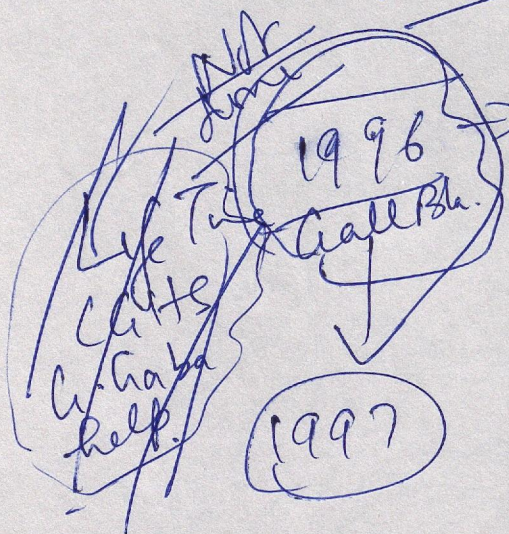
— Travel → not using my AS post

to buy Executive cla

FBP

Sl 26

How Delhi
runs on 'POWER'



↓
~~Later~~

→ Com's tests
where

→ Then used TNS for
RM Lohia

Sl 26

Sl 27

Folder 02

Small folder

1995
July leave for Viks To the VSR also
Jan in Del

Later during VSAA-UNDP proj
pressure on VSAA ^(to extent) him by Anil Kulkarni
did not know - He asked me
I gave the background. Dictated on
4/2/19

He then told me PRR did not
not brief him. ~~He~~ He said Sl ~~28~~ 28
Folder 02
most of the time he was telling
"Rajan is a highly networked person
- be careful!!"

Letter
to Kaur
by Rajan
24/1/1995
SBMT
March
1996

~~He~~ Amid my other work, I
started exploring for job
Ratan Tata, Harms Coop,
One Swedi Env....

March
1996?

(It was written to SD also
~~on it~~ on it)

Said
SD-
address
on Tat

Darbari Seth the h-ee

I gave address

* Kabam ~~not~~ only day about
* Had talker on leaving only
to three person - S. Ganguly,
T.R. Sahsh Chand, SD.
His adr

(Discuss with Ama briefly)

(3)

Vikram came up with flying colors and getti ~~the~~ MAMC adm
→ great financial relief; I could take the risk of leaving.

Also some pension for Voluntar
Thing Burke of m

Sans

= Leaving letter — Chose's help
Keep strategy ↔ hid draft

= ~~That day~~ Sent it prior as my father's advice → SVS

↓
Event = Excellent TIFAC
meely ↓

Nice photo with Amdester

= TR Sahas → I boyly men

VBR Bomb

— — — — — Kalam → early T-

— — — — — IIC her

= Then the letters

(write up
amb)

~~8~~

2/1/99

- MMK told that he would ask for a later date than 24 May 1998... TOLD me
- Elections → file back

~~It~~
- Then again sent

→ TRS called for IPR report next day in VS's hours..

- He asked them... He also asks whether he stops & say for Spt. Secy ---- "Aa Dup Nam"
"Sir I don't want any of these gen"

- Accept -

Also
VS side
Replies of Dand
15/Dec/99
+ Jan
Keep file

My letter to all ...

It meant DST & TIFAC

But MMK told me that he has briefed VSR that ~~the~~ DST won't be even able to answer Parl. Quo. -

So let the VRS be only for DST + repl which is the appl. ED comes as long Gov An

*
Keep
Repl
coming
want ...

Replies were very small
Sahyansrat
Repl
Reasonable Man

* Ethical
Judicial
or this min
Research
Venkat
Adv. → Amb
in CII al

SA 29

4/2/19 folder

o Misc → S&T related
letter to VSA branch on
S&T funding → audit

o Ramar Pillai → episode
related

o Amar Masri

o On TNS
Table of possible
people

o Tamil Nadu 2001 in Tamil
Kala
& me

My commitment
to S&T utilisation
for India

Relevant
papers

kept with anji material

Vijay's Marriage sl
30

- Vijay's interest in marriage Feb 4, 2019
- Told his Mom -
- She made the request in Sarjini temple

Settimana Susty

Met Mahalaxmi Oct 19th 1996

Her father... My father assess to make Header New DOWRY
Shankar Man ergan

Vijay was in Blore
wanted telephone
in the
Cynthia

I was too busy...

Then time pressure that Vijay had to go USA... may offers...

TNS wantj to come → He busy

Dec 13 Nichayatho

↳ ~~so may~~ Limbo in Kidwain
Kalam, Karan Ray, SSS...

Then manage → Civil Manage

Sumita →

TNS date → Dec 13
At Ambassador Hotel

My father fixes date

My Asth
Dec M

Crealt
Who's
Katho

(2)

old
Talcipane
of lawn
being
wet

the numbr of people - KR Narayan
Sandy flms for us & 1001 for Mah
Come Nani her Anu → Anand

End Dec 1996 → Moved to
Safdarjung End - Come from thru
Balwar

Sar...
Cold New Year Day → No electrics

Gomals side which
came - small
diversa in Manca's
hearts → July 1995
death -

Life there

Maha → M.A study →

Anna getting up at 3 am to
give her ~~cup~~ coffee...

She prefer
our home
↓

Later in
months

Life there → Vikran in Met - coll
falter campy...

limited space -

1997 → Vision 2020 write up - Delhi
- Ch

Vijay got 1998 → where he wants
Top 5 -

She foregone → Kuldeep Singh

1997 → Mama went for Valerie
→ Rehim → operation → Mrs Anita Nair
Ann took care

Seenukh → some fight → They left
Sukanya Assurana to him

For dictation

Bhaskara Rao

8/1/19

Sl
No 32
dictation
10/2/19
Folder 02

o Starts with Advt ~~part~~ TV part
of Services Sector Tech Vis 2020
Crew → He was so happy the
way we did

— He was in USA — got involved
in Mahim Luthra trip move —
Came to India — Sarabhai put him

ORG at Baroda

— His own CMS → still running
One of his alleged cheats
lost run

↓
Nasari run

His choices to Chandan Bahr
Nasari

— sold the idea Vis 2020

He tried me to help struct
Advt done → Amit Mitra of

FICIC, I et all did lot of work

— Last minute we did not hear!!

— ~~He~~ Chand Bahr went with McKenzie

(He was carried away by USA show)

→ His fall!!

Even now he does that; Smart Village
give ex

— I ~~still~~ continue with CMS until
bill left Delhi

— Now only at some eval level He came
out saw in 2018

— Close
family
ties → He, Bharati
Daughter
↓
Aruna

P.T.

Some tibbits

from ~~TFFAC~~ leaf phase
DST
Refer to the Bombay
& others

SL3 2
(Cont)

CNR Rawls

MSS → RVI → NFAIT

Nov 1996

Paki's

APC ITT

My letter of March
to Sp. Kawalle
Spt. Secy Sh

Later new Kalam → on Aug 1995
PRK

15 mch
ill

Final ver

My
Krials
Ramu
Taru
NFI
MS
Mar 1996
CIA
adv
NSA

30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
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80
81
82
83
84
85
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93
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95
96
97
98
99
100

My letter
to CN Rao
after my
letter of
about
ampl

1. A

(5)

7/1/99

CII entry

SL
32
on 10/2/19
Folder 2

~~Most~~ No easy way of job...
But Ratan Tata (they) was hopeful
→ he was busy boardly...
Consultant TD on enclunets
↓
Tuij po

My broda.

His telling me

Then formal applicat asked for by NSR
offer!

MMK ar
* Don't approve for
the job before left
Shilpa Bhatia - TD
my contract in TIA

force - Vague definition of NSR &

my role

IHC → Kalam Camp
Chandmeth.

Rachna / Andan
TK Bhatnagar → V. Imp later for Book

→ Steinbeis foundation conference

Visit later with NS's ...

Prof Johane ~~to~~ Lohin Mtg

→ very retdelay

↓
Later for India
None incld Bajaj. Not ready to pay

CII
copy

MMK was me
to clear
many files
DST (with
me) But ok

Aug 16
↓
Sept 1
Jobs

Fresh Air

(6)

NSR Contract to YK Agha
for the Economist - East As,
It was my Money...
Bajaj Cement

TD decoupled NSR
Sardar Arjun Star
we all moved to L Sport...

Told me to get people I want

Chandrash left

Rachna, Anbu, Sushya, Kalpana,
Anilkuma, Dhruv, Sonal (civil) ^{Refers PhD by MMK Ran for} ^{Starts integrat}
Mecha, Jyoti, Mangal Dubey (high level contact not my select)

Oriental: Their letter greeting when I left
keep

Upte this
sl 3

~~Major work done~~
S/3 ~~starts~~

Technology Summit: Partner Country oriented.

Complaint - One to one meeting
individual camps → Select Sprayer of ID*

Israel visit Anbu, Rachna, Sar
Kalan becoming Nat'l Council

help DRDO → Anbu: One to one
Select Man 30000 TT.

* Many Supervisors
Ran park
for Sar
for visits
(Resis)
Mtg with ch

10/2/19
folder 02

sl 3 (Contract) 18

(7)

Continuous
confusion between
TQM, IT, Tech
etc

TD: Div
had met
Wankar
*Bhargava
et
NRM
Thakur
Sudh

Foudsbahy

Early
My one
year camp
with TD
- TB
rights
it was
a Ban

Suggha
for
too

Rachna: IIT Delhi → advance R&D
for Environ lesser pollute
Cars for Market
→ Companies were mltipl h

Sl 3B
Folder 2
10/2/19

Rachna: IPR expert

↳ VS / Saha → Got ~~through~~ through

their service...

Also like by Dept of Inr

Internal Problem: ~~Di~~ Dilkeep EMR
Chunay & Rights

Omkar
Fricku with TD

That ~~shows~~ showed up later
with Int'l Divis. - per Suparna Pandh

Protecting Tech. Div. staff from
'paaltu' duties except for Exhibi'

Beautiful Foreign Repts in Int'l
division unknown → ~~2~~ 3
Rama, ... Finland recovery
Uggh R&D → 3 focus

(8)

Sl 3A
10/2/19

Stanley Nollen Rachna
Dhru

Painful

Sonal Kohli - Excell in Inforsys

Child delivery

~~Part~~ No half day..

Earli

Painful
~~helpless~~

Kalpna 1000 copies issue Account
~~Final~~ NSR one hour on it with all
Medical child pain

Technology Sum (Running on waste)

ICICI

Painful

Our wimp Shrinobas

Rachna / Anbu

for TDB

Vineet Gyal.

Follow up Tough.

Formation of APTDC.

Mrs Joshi
Sey Int

CII styling
GM
CSIR

Model for Punjab

→ W.B

Hijacked
for Quality

TN still ach

My Gujarat
Speer

→ Gujarat

*
Naga
Sahu
Kulmit
Sya
Rachna
* ↓
PM stark
Force on
IT → My
wh. Sch
My letter
Jannat sy
Hardan
Kopkar
IT →
ON Kulkarni?
My paper.

9

Mobile Hospital

Vision 2020 Followup

SL 35

= 1996 itself S K Sinha

- Bihar

Padli Gay

Sinhappaper folde

- Deoria

- Kamelika

- Sikkim

Dr. Verma

- Uttanchal
Uttanchal

Vision Papers for States

= UP desired by MMJ

= GOA 1998 pt

= Uttanchal
also also

= Other fields

- Auto

Sheela Dutt

= Milk - Poosawal

- Verka Punjab fis

Konatah

Textile

= offeres fundy equip
NDDB

= Other areas

SL 37

Rawar Mobile Hospital

all // Almore
deals - one Pandey NCO ->

In modue SBMF -> Paper here -> How health was st

o Full on the Part of Uttanchal Visi. Kothagud. PVI, VSR, RB, Ann

Folder 02
SKS folder
B.P. Sinha
M. Agri.
Dichant
on 12/2/19

(10)

Sl 36

Folder 2 = 12/2/19

Binale for Indep 1998

Conditions 9 part

MMB Palanad

Ajai Sahni

Sadhna

All details

MMK San. →

Hitler P

Ming Culture

MMK letter

leas
our
MMJ
letter
also

Went
through
Kamak
output
↓
No
↓
We went
direct

Initial
Prayer
Told him
to keep quiet.

My advice to
Ajai Sahni

Mabheks
Maya
shah
eh

How Shivraj Pahl eh of Comd in

Chandrashekhar
sleepy

Last → Got the idea of last chapter →

My little
finger
perhaps

Before that Vision 2020 Book
Kalam Study Journ
My wady time

Patanjali and
Purifying his
5 an in 10 min

My book
Telly
me about
sahni

Chippa
Noh
Dinner
Tip Man
of h

1997 → Started
Sharda . . . I work

3 mos
No more

Kalam
then

He shun. low
Sun

Mabheks
telly mean
his task
on vis

11 May 1998 → Pokh

Release of Book - July 1998

↓

The Show

Great few months for Indu S & T

Problem is copy Kishor Chandra

↓

He was after Kalam

M/S Swastika
me in space
Camp

Sec
M/S
Final Job

* Chandra S & T Priorities → USE
Great work
CDB? EPW reps

~~PMT's Task force on IT
Seshagiri, PVT... etc.~~

But did not
get into system

* ARCIT

Kashuri Rangan

Cost-Benefit of

Remit for

Chand - Cefal & me - Dhruv

* Also Anjanati's speech on ARCIT
Anjanati

(i)
ML Sondhi
relatv

Sl 38

on March 19 2019

Also read
MMJ letter

Right after 1996 → Tech via
He was in contact with me on Bankar
fruct

Vijay's marriage

Coconut - Why am I
a Hindu in Book

Also M.D. Nalapat.

His desire to transform Sqare Science
Research

1998 → Toyiy to save NDA

- Jayalali the 1998
Paper for TN Give all detail of g gij book
- Santhan stamp only a

- Her talk in Indo-US relat

MLS in JNU also
ICSSR later:

Deendayal Upad
Libra

Akhire Malra

Security

Admin Refr

my paper

A book

~~MLS~~
was

Fin = Into BA's CGDAST
= Kashmiri SET Park Kalam agrant.

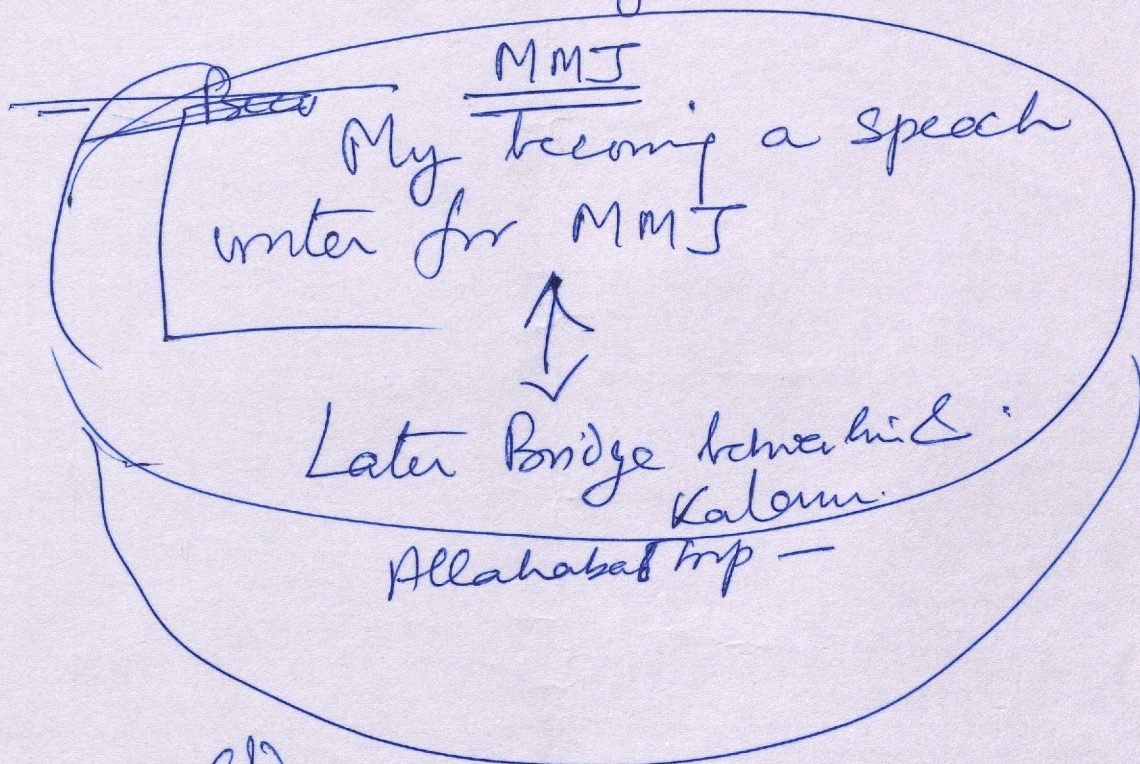
* = To get ICSSR into DST
Budget

MLS want
me in Space
Comms
in PMO → one
room
IIC Meet
Simon Pirez
Tech Top

(ii)

ML Sonthi (Contd)

- Continuing meetings with MMJ
internal BJP politics
→ Jaswant Singh, their own



MLS folder

↳ Integral Security - Paper
for Kal

Mushraf Big Project Energy ——— Martin Shume
MLS →
Sharan Paw
----- Great Lan

MLS → death → My pan

(1)
Chapter 6 (1990-2000)

Already 307 written pages
are there. I read them
& in continuation of p. 308
I dictated in Folder 02

Brief notes on this
spread up p. 309 + then detailed
notes

1) Folder 02 17/12/18
(Continuation of ~~the~~ page 308 handwritten)

Ranganayan Kumaranyal
as MOS (SFI) — related
episodes (as in notes in ③)

of notes ... + some

2) Folder 02 25/12/18

This lapse
top 2
& sec. 4
have
changes possible

Misc Notes - TNS, Jainan
Rench, Subramonia Swamy — their
comip often to TNS when I was there
— politics — SS & TNS make up
for CEC role for TNS → TNS comments
to me on what Rajiv Gandhi said
(conts next page)

Chapter 6 (2)

2) Courts

Folder 020 \$ Brief about Vijay's life in Bangalore without as early 1990's
Hotel change - USAID project review on CDC of J. P. Nair, and I also as consultant.

o SD's ideas of SST in County -
His ideas of making SST as policy making body - etc
My comments about SD's limited knowledge on this - His comments ~~when he~~ to me when I asked "Sir, why don't you 'clean up' Rajan" My father had told that when you jump into a dung pit to clean, you ~~are~~ don't come out clean!"

By Grooms

A strong letter to him by me is mentioned → Not given the bit to be seen elsewhere later

RECIPE

③

Serves _____ Prep. Time _____ Cooking Time _____

③) Folder 02 25/12/18

Mostly around my involvement
 \$ in ISCA (Indian Science
 Congress Association)

Lenika AP Mitra 1989 Madras
 Jan

Yash Pal 1990 Cochin

D.K. Saha 1991 Indore

VRG 1992 Baroda

S.Z. Quasim 1993 Goa

VR Rao 1996 Patiala

The books from VRG time, and
 some other details given. (also
 accomodating VRG in Qutub Hotel
 by PIFAC expa).. Nice snippets

Beant Singh Patiala

(All Brief)

RECIPE

(4)

Serves _____

Prep. Time _____

Cooking Time _____

Folder 09 28/12/18 IMPORTANT

4) A very important ~~not~~ one program wise - ~~Also~~ Contributions of the TIFAC Council (1987 & 1993) are given - all names Some comments of PRR consultants. Then ~~vk off~~ Some crucial Contributions of PRR for Joint TIFAC - Inst. Board, HCIT on Jn. Letter to Suresh Krishna June 08, 1993 Concerning the "Sunset" sector of Manuf - Appeal to him ~~for~~ My worry about Iida starts then. A letter to RN/16/9/1994 on Civil Aviation - 3 reports → Follow up Kala & RN & Civil. Ad Secy Comer - Ltr to Sush Chandra (Conts in p-5)

RECIPE

5

Serves _____ Prep. Time _____ Cooking Time _____

(4) Folder 02

(Cmhr prepas) dt 14/3/1995

on HGT → with enclosures

(Compares HGT money with other funds) A → B → C → D → E

How much money in each chain
(How lopsided it was! can

be seen now in D-E

These ~~are~~ three letters are
very vital ~~are~~ about Tech. Dev
in India.

SI 5 Folder 02 Very IMP.

This is a long 54 min
dictation. Gives all about

TIFAC work using Petrochemicals

RECIPE

(6) • (2)

(Ants)

Serves

Prep. Time

Cooking Time

Energy Scenario etc.

Then going through the available TIFAC News starting from ^{Dec} 1989 - with forewords by M. K. Menon. Then I go

through ~~is~~ each of them. Not all titles - but some items like TIFAC LINE

Some follow-up of Petrochemical (S. Ganguly moves out of IFC - Reliance customs duty)

Not for all there goes up to 1999. Very good info

~~Then~~ ~~or~~ ~~some~~ Mukesh Ambani is Petrochemical follow-up.

Steel etc

RECIPE

7

Serves 81.5 (units) Prep Time Cooking Time

81.5 (units)

Then there is a ~~an~~

graph of TIFAC Expenditure
reports etc upto 1994.
TR Sankar Chandra - Energy...

Then brief write up
TIFAC upto 1994

Also 1996 report
of TIFAC to Parl. Consultative
Committee → Comprehensive
about 20 pages

Then another set of
expenditure / income
of TIFAC (Colon upto 1998)

In all these narrative
there are some ~~some~~
anecdotal comments

Also mention of PFC, ICOSER

RECIPE
8.

Serves _____

Prep. Time _____

Cooking Time _____

SL 5 (Cont)

Leveraging ^{raising} of others money
by TIFAC's funds.

Also direct income

* The status of S&T in
India past 50 years

1994 TIFAC News

by S. Z. Qureshi

~~EX~~ Exceptional Document

by Dr. S. Ramanathan

~~15~~ 13 volumes

Pity it was not follow up.
Also gives glimpse of VSA leave for CMC
give Kalam an opportunity.

SL 6 Folder 2 ~~28~~ 29/12/18

Materials, PR

Board Building for TIFAC

I have described about many
processes adopted to spread

9 RECIPE

Serves _____

Prep. Time _____

Cooking Time _____

Sl 6 (Contd)

awareness about PIFAC; its achievements etc.

In the process how we arrived at Logo is explained

Then several other fine details of managing person

(See the notes)

Sl 7 Folder 2 29/12/18

All about A VS Arunachalam

Linking up various ~~for~~ earlier

writes up - elaborates his

leaving for UNDP Project CMU

- Then until 1997 ~~meeting in~~ Ind-US

collaboration Mtg by Pennysl. ~~for~~ Univ

Centre in USA of Me, P K Iyengar et

VSA's talk to me. to his ambition

(10) . . . RECIPE

Serve (7) Combini (VSA Arnachala)
Prep. Time Cooking Time

to make big business in India in
collaboration with Raj Reddy -- Some
troubles in Vidya Vahini etc.
going almost to end by 2000

Sl 8 Folder 02 29/12/18

STAC - S&T Advisory Committee
in Socio-Economic Ministry. Har
it was languishing. My NAREAS
experiences used when PRR wanted
to dump Malti Coal on to me
in TIFA Division - Used her
ability in Newletters ... Only a few
were there. The start Issue 1
1991 was there Nareesh Chandon
as Cab. Secy Forewent, PRR too.
... IS-STAC. Have it ~~dis~~

(11) RECIPE

Serves (8) (Cups)

Prep. Time

Cooking Time

not going beyond.

One outcome MOW → FRO
project R. Saha with them

PRR friend with that Secy MOW (Rao)

— Andhra connect

How I handled Admin Okay

Project appd — money release

DRDO/DRDL / COMPROE poor
admin/manager for this.

How nothing much came

Arun Tiwari — meddling

with — SBMT — A S Pillai

Then Origin of PFC → R. Saha
how well it grew

ICOSER

Lastly an excellent paper by PV Indira
Lalaj Techdy, Dev and Economy (1991)

Serves

Prep. Time

Cooking Time

Sl 9 Folder 02. on 29/12/18

About the THREE TIFAC
Missions Sugar, Adv. Composites

Effy Ash - Generaly Mission,
processing for approval, organization,
similarly making Admn Orders to
accept the STM findings or Fly Ash

etc. ~~See~~ Problems in Adv. Composites

N.S. Venkatarane ...

B.R. Somasekhar / S. Biswas
Contributions.

Leather → S.K. Joshi - GT
early / Amudesswari

Azodepe reference

Sl 10 Folder 02 on 01/01/2019
admn

Some remaining papers from
my appointment in DST in 1988

RECIPE

(13)

Sl 10 (contd)
 Servis Prep. Time Cooking Time

ACC approval, extensions to

7/7/88 → 6/7/89 → 6/7/90

Then for 3 months (MAK agrees to that....)

Then absorption

Classification on the grade 7300-7600 as it was Advise....

Absorption draft.

One letter from PRR seeking TIFAC Comal reconstruksi (gives a good preamble of TIFAC's role taking on from PM's statement)

Feb 88 → Feb 91 → Feb 94

~~Em~~ of VK → default it continues

Then a paper ~~VRG~~ letter on Jambatal Nahn Awards 1991 (To be given on Jan 1992)

News report 14/1/93 in Berita.

RECIPE

Serves

Prep. Time

Cooking Time

Sl No 11 * ~~Important~~ Jan
Folder 02 01/01/2019

All my correspondence 1990 onwards to SD of ONTIFAC, general, URR minor ch. also seeking his help; one strong letter 22/2/94 on the decay of SET system to URR ch. SD has kept all of them safely & numbered ch. The whole of it is kept. Some comments on the letters - reading some parts & some my commentary as why I say some thing.

Some good glimpse of what what was happening.....

Sl No 12 ~~Important~~ Jan
~~About PR Remission~~ 02/01/2019
All about the HAT right from

RECIPE

15

(Contd)

Serves

Prep. Time

Cooking Time

Sl No: 12

2/2/19 2019

concept to evolution + Select papers have been organised in evolution.

Lays bare the problems of Tech. Dev. in India.

Later some of the other country referred

UNIDO → ~~Rohin~~ Itagudoom

& Rohin about TIFAC as model

All these are kept along with the papers which will go into the white book up.

Comments about SERC etc.

Sl No: 13 ^{Folder} Dictation on 3/1/19

Most Misc. happenings

RECIPE

(16)

Serves

Prep. Time

Cooking Time

under P. Ramakrishna

period. Some V. Important

There are many little & big things in it. Some important ^{S&T} programs; some administrative Some funny ... The best of what I did are given in the cue notes I had written down for dictation — kept here in folder form.

Some of it will be expanded as a write up which I will do explaining briefly in the files contents in a written form as a continuous write up —

RECIPE

(19)

Serves Sl (19) Folder 02 3/1/19.
Prep. Time About Three Cooking Time

Persons R. S. Ganapathy,
N. S. Venkataraman
& Vimal Kumar

~~How~~ The types of errors
faces from them -

Only Vimal Kumar was
a great contributor in TIFAC
field for problems -

(See the cue notes - which
will be slightly expanded in
paper write up. Main
of course is to hear the recorder

Sl 19 Folder 02 3/1/19

PRR Pens → ASEAN Start;

~~AEM~~ Some details as in notes

RECIPE

(18)

Serves

Prep. Time

Cooking Time

se 14 (out)

AEM Comp to Delhi (My advice to him)

DAVES → Samyit Ghose
letty me ^{forget} DST GH.

↓
Nambi spy case —

My version of it as as
AEM was stopped

Then how I advised AEM
to Chuch

Samyit Ghose Son's tragedy
referring the date from VIKRAM

marvellous letter to Vijay in Nagda
Remarkable for 17th year old — ^{Copy left} paper
placed in write. — My tin letter to

TDB formation — Accepting the first day

Nambi — letter by SD, URR, TNS, YP

R. Narasim & S. Chandra

RECIPE

19

Serves

Prep Time

Cooking Time

Sl 15 Folder 02 5/1/19

On my impressions of
Visits to China, East Asian
countries (Thailand), Malaysia,
Singapore, Vietnam - all in mid 1990's

→ Indonesia (2017)

On social, economic, aspects
just impressions. As in the sheet
follows (cp).

Sl 16 Folder 02 5/1/19

A attempts cogent picture
of my impressions of RESPOND
during SD (my) time, ISRO-IISc
Cell - the politics by Professors of IISc

RECIPE

(20)

Serves _____ ~~Cooking~~ Prep. Time _____ Cooking Time _____

Sl 16 ~~Folder~~ (5/1/19)

IIT - ISRO called better performance.

Questions of bringing CNR →
how IISc culture change

JNCR → S.R. Valluri Brief
mention

IIT - B Poojary attempt
at IIT - Industry Mission 10%
→ How we learnt from this

Went to TIFAC - CORE

~~Some thing~~ Overall poor
interaction between
them itself due to Proj. - academic
culture of self promotion.

→ FIST - ICOSER

Brief Mention of DST-TBT (2015?) ...

(21) RECIPE

Serves _____

Prep. Time _____

Cooking Time _____

Sel 17 Folder 02 on 5/1/19

This about how my ideas
on the word "Scientific" method
~~starts to evolve~~. Going back to
teenage etc -- Marxian

Mgmt methods -- SD methods

-- Policy, etc how much person
dependent

Refer Murray Cell Mars
Max Delbrück

Hakkoo conversation -- exchange
of letters -- My Jawahar Nehru
Award Talk -- it was my core
for Vision 2020 etc
Other papers -- Poem on Campus

Raman Pillai -- Episode --> My
letter to media Where I draw
a line -- Still anchored in Sel 7

RECIPE

(22)

Serves

Prep. Time

Cooking Time

Sl 17 (Folder 02) 25/1/19

Reference to NCSTC → Narasimha
Sahgal

My approach to S&T
Communication → Article in
"Empowering Indians"

Sl 18 Folder 5/1/19

Lowers
Dahan
Mew
Science & Maths culture
Payutto — Susantha
Asoonahika
Objekts to Anna
Anekantais — CIP Lab
Sus
Anna Soory
Happa
My lab Science, Engg, Tech,
Markets
Correlation & Causality

RECIPE
(2.3)

Serves _____

Prep. Time _____

Cooking Time _____

Sl 18 (cont)

Data Memorial Book
ek.

See the folder
sheets kept
here BOTH SIDES

Sl 19

Folder 02 6/1/2019

Series of on Individuals who
had been of great help to me
in TIFAC, DST.

Starts with ~~Dr.~~ ^{his} Dr. S. Ramanath
(even before I came)

It says about DST contributions
& later beyond my DST ^{now} still
in TIFAC days — Goes GL 2002
bill I left & he died Dec 2002

Sl 20 Folder 02 6/1/2019
Continuation of Individuals

RECIPE

(24)

Serves

Prep. Time

Cooking Time

Sl (20) (Conts) Sumita Wadhwan,
Kalpana Joshi Chakurvedi,
Rachika Ramanath, Shikha
Chopra — In the process
I also describe some implementable
items of TIFACLINE

↳ My one² only Ph.D. Student
LN Rajaram —

Sl 21 Folder 02 8/1/19

Individual (Conts)

- o Residual on Dr. S. Ramanath
— Bern, — Basic research his brother
Chandra's ~~view~~ observation
- o Sreenivasa Setty → His almost
being ED TIFAC → I
have to keep that page
- o Dr. S. Ramanathan : His Plan Coms.

RECIPE

(25)

Serves _____

Prep. Time _____

Cooking Time _____

sl 21 (Contd)

to SPT Status Report

o So Ambhi Oltun den

→ INSA TADA claim

→ IRU → Sas death

o Jamey → Janick TIFAC Core

o Kiran Zacharia → about
Swami Jayendra also
NAF → clearance

o Achla : Mubla broprit

sl 22 Folder 02 9/1/19

D.B. Sehgal Individuals

BK gdst, TIFAC ...

D.B. Sehgal, B.K. Chaturvedi

N.K. Sinha

Sanjayit Ahuse, S.B. Krishna

M.M.K. Soudam

RECIPE

(26)

Serves _____

Prep. Time _____

Cooking Time _____

sl (22) (conts)

Sarin

Also comments about our
relations... Some details -
My help to them
Greatest strength ---

sl 23 Folder 02 9/1/19

Individuals (conts)

Soumendra Biswan

R. Saha

→ sangita
Nagiri

Dr. V. K. Misra

Dr. Laxma Prasad

R. Saha

S. V. Subrahmanyam

M. P. R. Narada

TS Aravamud

✗ & Dash

V. K. Jann

Ahuya N. S. Nair

PS Roy / DNS Singh

Rao. Arjyngi

The case of lampy

PI ...

RECIPE

(27)

Serves _____

Prep. Time _____

Cooking Time _____

Sl 24 Folder 2 03 Feb 2019

Starts with reference to P.N.
Hakson letter → Scams copy
breaker → Some ~~FAS~~ ISCA snippets
TEPP → Mainly on Amudescran
as in Notes

Sl 25 Folder 02 3 Feb 2019

Personal matter Vijay job, Vikram
Admission, House NALANDA etc
also touches on my trying
for Spl. Secy-ship, PRK last
days etc. as in notes
in detail — Kalam did not help
etc. (Will be covering in next
Sl. 26 also)

RECIPE

(28)

Serves

Prep. Time

Cooking Time

Sl 26

4/2/19 Folder 2

Sl 27

Medical Relations in Delhi

Two small one (one interrupted ...)

CGHS ek Goma handling

Sl 28 long 4/2/19 Folder 02

Many crucial items 1994, 1995, ¹⁹⁹⁶ early

Covered in summary → 1994 ek recall, 1995 → Some touch → Then my

leaving relates — ek Lardhope by Sammit Chhose → ... VSR, Kalan & I

talked etc. ^{Biggest}

Also added ^{Pay scale} ~~new~~ ^{Commings}

My letter on Govt pay structure etc Some vital reforms

* SBMT → crucial letter note to Kalam about its functioning —

Then leaving letter to all — TR Sahas

Chandras as Princi Advisor to PM

RECIPE

(29)

Serves _____

Prep. Time _____

Cooking Time _____

Sl 28 (contd) callig me next day
 after he took charge - on IPR
 → asked whether he did try
 for my Spl. Secy'ship. - My resp
 My trials to get job in March
 (see the note)

Reference to Venkatasubrahmanyam ~~Pat~~
 Committee on Guidelines to Ethics
 in Biomedical research

<sup>Papers
 kept</sup> Bios → Technol. Deneal Paper
 Response for others in TIFAC ~~to~~
 being letter

TIFAC's finance papers
 as 1.1. ~~1996~~ (Papers kept in
 written mode)

Sl 29 Folder 02 4/2/19 afternoon

Misc item S&T Commercialization

(RECIPE)
(80)

Serves _____ Prep. Time _____ Cooking Time _____

Sl3d(Contd) My persistent desire to use every opportunity to have A to E cycle (idea/invent to commercialization) R&D crops up as also worldclass excellence for India's basic research. ^{My wife} ~~to~~ Dr. V.S. Arunachal 1991. At the same I was also on the less on terms like Ramana Pillai - Since I was told of a link in a report that I ~~was sup~~ said that Ramana Pillai "thing" was around B in $A \rightarrow E$ chain, I got into serious action to remove that even amidst my hectic period of Oct 1996, having left DST, trying to settle down in CII, TIFAC work, personal actions to change house ~~I saw~~ Also ~~R~~ Sergei Korpitka article Then

RECIPE

(31)

SL 30 (cont) on Ama Mani, A Tamil
 price ~~of~~ 2001 - Gov Tamil Nadu
 (Kalam & me) 1991 ~~to~~ India today

SL 31 4/2/19 Folder 02
 mostly events around ~~late~~ 1996
 after leaving DST. VS marriage,
 little elaborate, Goma's father death
 a little bit, some 1997/1998 episode (peena)
 Ann's exams, Vijay getting job in USA
 Goma going to Europe (Valerie Hoos...)
 Kuldeep Singh prophecies etc
 (details as in a note for
 dictation)

SL 32 10/2/19 Folder 02

~~On Bhatkara Das as in
 notes → Vision 2020 AD & TV exer
 late 2005 from etc~~

RECIPE

(32)

Sl 32 (Contd)

Serves

Prep. Time

Cooking Time

Some IMPORTANT tidbits about my leaving of DST.

How I had tried for Spl Sec ship when PRR was very much Sec DST (March 1995) → Then later Aug 1995 to reink Kalam PRR → Askip then. el

~~The~~ The letters show how I had tried with VSL in 1995 itself ..

One year... Nothing done.

~~In~~ ^{cal} In 1996 I ask for Kalam, PRR for reference.

SD → Song letter EKlayan

thumb cutting →

Askip for whomsoever it may

concern letter

→ letter from Rakari Tak
1 March 1996

RECIPE

(33)

S132 (Loro) NFI ek ek.
 Serves: Prep. Time: Cooking Time:

CII Application

All referred in the bag -
TSM plans Brown top -
Matter bottom -

Sl 33 Entry in to CII Entry +
10/2/19 Folder 02 ^{work}
As in desaler notes of TK
(5) (6) part. — Bham
NS.

Sl. 34 Part notes of 10/2/19 Folder 02
2 also (7) & (8) ^{to}
As in ^{work} Crucial work in CII glances
Also Kulwant Singh episode.
The big CII file referred to
to be dictated later selectively

RECIPE

(34)

Serves

Prep. Time

Cooking Time

Sl(35)

Folder 02 12/2/19

Vision 2020 Follow up

As in (9)

Bihar Pallias

et as in paper

Sl(36)

Folder 02 ~~12/2/19~~

Independence Day Finale

Ajai Sahni episode
whole of it

Vision 2020 Book origin
to end Penguin in

PII

Chandra S & 7 priorities

EPW

Kashin Ranga

Gujarati letter
Kumar Writing
CII Gujarat Tech. Park

Some
small break
from J
bring about
the

Sl 37

Folder 02 12/2/19

Vision 2020 follow up
Couch

(35)
RECIPE

Sf. 37

Serves

Prep. Time

Cooking Time

Vision 2020 (cont)

Texble —

Mobile Hospital

ek.

Sf. 38

on folder 02 1/3/2019

March 1, 2019

Mostly on ML Samhi

MMJ letter to me on Integration
near day finale SL 36 a gap in dice

As in written notes → till the
deaths of MGS & the recent 2018 ~~of the~~
function

MMJ: some items

Sf 39

Folder 02

13 March 2019

CII Initial Skat.

Explaining the one page
handwritten CII appraisal.

Rest on NEMA → all papers

RECIPE

Serves _____

Prep. Time _____

Cooking Time _____

in plastic folder put together.

Using that as an example
how working in CII was —
inner causes — my own
methods etc.

Nepal visit → important
in life — God helped from
death or accident!!

~~Be~~ Lumbini etc
high speed reference.

Then a overall summary of
my work in CII — TD's
relationships etc see the

St. 40 plastic folder. While
the note to TD handwritten

(37) RECIPE

Serves (anti) Time _____ Cooking Time _____

has been partly dictated
Other papers of NEMA only
referred in general. Reading
all of them together will give
a picture of what happened
& why I wrote that note

(Sl 40) Folder 02 14th March 2019

~~The~~ The plastic folder CII is
which handwritten notes are
there.

Before that I briefly mention
about God's Grace in my life as
a Protective Force. Then a little
more on Nepal I saw.

RECIPE
(38).

Serves

Sl 40 (Contd) Folder 02 14/3/19

To P & C handwritten to TID 29/9/98

Painful mt - But summarizes all work of CFI.

20/9/98 IPR & CFI → I just say I won't work on IPR any more

25/12/1998 Budget related - In A CFI's Accts Dept problem for TG details given

~~Note~~ 28/12/98 Note from SP (Suparna Pawhi) → against a Tkt female colleague

Comment on Sanjay Ban Paper
on Eco. Policy & National Security
Myanmar
Very good even now when I see.

I raise Internal Security not addressed in the paper. An excellent observation with foresight.
(Also in Anuram's Q&A on defn)

(39) RECIPE

Serves _____

Prep. Time _____

Cooking Time _____

SL 417

14/3/19 Folder 02

CTI Folder paper combs

One is on Economy drive

More than 1000 copies

Then Budget issues

Rachna mlti

Indian Energy Secut on

TERI paper ... too flipper

My detailed paper -

discusses sabotage, even

soft problems by NGO's

(I link it to 123 and anti-much

in my dictation). I am happy about

my foresight (Gov's Gift) Link it

to Ode to Earthman poem

Eagle's eyes goy in vain

Then Barker Committee meet

Rachna mlti in IPR issues (V. Gov)

(40)
RECIPE

PC

Serves 1 (41) (cont)

Cooking Time

A blunt note by me
for a change TD had remarks
Thanks. Can we make ~~of~~ a paper
not sure in dir

(All these are in folders
& kept in write :)

Sl 42 14/3/19 Folder 02

A ~~single~~ single paper left
out (YSR → TD) suo note

CII was getting bad coverage
in press. (I also briefly
state in ^{my} dictation note in the
note of how CII was having
problems with NDA.)

I suggest how to engage

RECIPE
(4i)

Serves _____

Prep. Time _____

Cooking Time _____

Sl 42 (cut) those in opposition
Continually as much
as those in favor. I suggest
names. Also how to engage NGOs
(I refer to an earlier paper
attached - it is not in this)
May be in folder.

Another item is
ICMR Ethics guidelines for
Biomed Research framed
by Venkatasachariah -
Concept of Resasana Reasonable
Man etc Insights to Ayurved
Paper placed

Sl 43 folder 02 18/3/19

CII Big Folder from bottom
side paper Oct 1996 → upward

RECIPE

(42)

Serves _____

Prep. Time _____

Cooking Time _____

Sl 43 (contd) Mostly telling from
 the papers — some extracts from
 papers dictated — ~~some~~ During
 which I also make some
 comments as to why I say it.
 — covers a wide range incl.
 Mahatma Mohan's visit to India
 his asking me at Exhibitions

Sl(44) Folder 02 13 March 2019

As above another lot.

CI I By folder (contd) 2

For both of the above

I have given inside the
~~Folder~~ ~~cont~~ Folder page — where
 it starts — where it ends
 for conventional track

Sl 45 Folder 2 27/3/2019

CI I By folder (contd) 3

(43) RECIPE

Serves _____

Prep. Time _____

Cooking Time _____

Sl 45 (Conts) Starts at the letter
by Prof V Indiresan on my
election as FNAE (Fellow I NAE)

Ends in Task Force: DRDO-Industry
Partnership. dt July 21, 1998

Many ^{of} interesting items ~~at~~ in between
The Transition of Govt also.

George Fernandes idea on
Indigenous Production - Task Forces
etc too.

Sl 46 ~~2~~ Folder 2 22/3/19

CII Big Folder (Conts). Many
CII items & notes - IPR.

My ~~work~~ work on PM's IT Task Force
Naga Sadhu Kunddeep Singh & his
prophecies etc. Many aspects of ~~interest~~
how CII had to handle the big

(49?)
K.P.P.

Sl 46 (CMB) Folder 02 24/3/19
guns, Charlakans, Wheeler dealer
Serves _____ Prep. Time _____ Cooking Time _____
~~some~~ ek

End in the IPR Bulletin By
TIFAC. All ^{papers} in folder I have
referred to them

~~Sl 47~~ Also the internal
capability buildip by Tech Camp
members

My Vietnam Visit
Aditya Born ek

Sl 47 Folder 02 29/3/2019

~~On~~ CII Big Folder 5. Final
round - Completed.

Now other Folder 1998 items
to be done for 1990-2000

Some important papers - On IPR
ek

Sl 48 Folder 02 30/3/2019

Last of the chapter - 1990-2000

Mostly letter to AMJ for starts

(45) RECIPE

Sl 48 (Cont) Poldo 2 30/3/19

Starts with two important letters to Jaswant Singh on Task Force on National IT & some comments

Then with my letters to MAMI for various initiatives - My comments to Arun Shourie as Program P.

His reply

ML Srinivas Jayalalitha relates very good paper

Integral National Security an excellent write up by me.

My talk to IAS Jfr - IDSA on ~~the~~ Defence & Private Industry.

Plus few others: Little bit the glimpse of personal life; some foreign trip; operations etc. ...
Chapter 6 ends

Will go to Chapter 7, 2000-2010

RECIPE

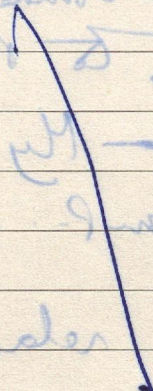
~~46~~

Serves

Prep. Time

Cooking Time

~~Chapter 7 2000-2010~~



new

Go

~~46~~

page of 1 for this

Chapter

Will go to Chapter 7 2000-2010

VOICE RECORDER
(some gundets contents) (1423) (5) Chapter 1980-90

(I start with the set of
notes I had made for covering - after
going through all papers, I have &
getting triggered by memories
of related things - big & small)

Folder referred to from Voice Recorder -
and in my laptop → Music → ~~to~~ School Organisation SO →
Folder at Folders referred.

I also give the dates recorded.

Also a small size (A5), yellow record
sheet is there.

Sl. 1) Folder - Serial 1 This is all about M.R. Kump
Starting from his early role from
Atomic Energy → Centaine Propellers
making → its crucial role.

His political left leaning helpful
with the staff.

One of the confidants of BP
Conflicts with VRA
But his "politics" within ISRO

(1424)

~~His retinal~~
ISRO Safety officer → creates
to satisfy ESA condition for APPLE
With Jimmah.....

His retinal tear → Arvind
Eye Hospital, My description of it
also → The Brochure.

This was ^{video} VR on Oct/28/2018

SL2 Folder 011: Recorded on Oct 30, 2018

All about Mahendragiri site
selection. I narrate about the
selection criteria used by SD
amongst the conflicts within VSSC
persons - some technical, mostly personal,
also a little bit Tamil vs Keralite as
well etc

The processes described in detail
(expansion of the mode used for
INSAT → etc

Then a comprehensive

(1425)

note by me created from DOS
files dating from 1972 (or earlier)

sealed — opened for Raj Chenguappa
— pitiable report as a biased
Report! (TNS & I advised SD
against it)

Note for IG earlier &
also for activist Bahaguna

Sl 3 Folder 0 Last POIGNANT
memories with PM Indira Gandhi

Recorded on 31/Oct/2018

This starts with the last
Consultative Committee she held
somewhere middle Oct ~~1984~~ 1984

VRE had just taken over —
hardly 2 or 3 weeks. TNS was AS
Her political acumen making me

(1426)

talk, in response ~~some~~ remarks
made by Krishna Kant, that policies
are hidden in technical jargons
— what are the goals — how
communicate within organisation

Then our visit to DFVLR

Tragic Deaths

Some ~~the~~ events there in Germany.

& Return → Aftermath of

carnage → my beard

Important event

Slr 4 : Folder 01 White Records

on Oct/31/2018

While ^{some} UNCOUPOUS related matters
and major events like UNISPACE-82
have been written about earlier
in these pages (hand written) there

(1427)

~~are no~~ ^{were} ~~are~~ many items which took place. Also 1980's ~~were~~ was the period in which US President Ronald Reagan had gone aggressive with all countries. ~~The~~ Not just the "Star Wars" but US was pushing for open access to space, so that US companies ~~to~~ could get markets outside. Same with Remote Sensing...

Tough but interesting period I had talked about the overall approach by US, our own tactic, ~~to~~ support for us from other members esp USSR, some pressure by US on a senior person from India's UN Mission, how we handled ~~the~~ etc. In specific, NPS (Nuclear Power Sources), DBS (Director

(428)

Broadcast Satellites, Remote Sensing Principles etc are explained in some detail — how India approaches.

Sl 5 folder of Record on 1 Nov 2018
(11/1/2018)

These are all about RRSSC.

Main purpose of RRSSC. The ^{Comd} Apex Member (Secy GOI, Support NNRMS of various Ministries ...)

Problems from USA technology denial. How ISRO/DOS handles it through facing order on SEP etc. Even in 1980's US technology denial was on India —

Then how some key persons like Krishnan Umri, Gita Varadan et al were involved. Another item sub in

(1429)

ISRO list was OPRSAE due to
the perseverance of Prof R. S. Chaturvedi

Many unwritten items are there
§ ~~§~~ in the dictation ~~what~~ Opportunity
look for manufacturing such

Image Processing systems in India

~~I had fast fast~~ is in a

~~separate~~ folder the same folder

→ but in Sl. No.

This ~~one one~~ of procurement
was when SD was very much as
Chairman ISRO, and some of the
early actions of NNRMS.

Sl 6 Folder of ADRIN/DIPAC
dicts on 01 Nov / 2018

This one is closely related to
the above one of RRSSC - computers.
The big fight within the Min of defence

(1430)

and Cab. Sectt as to who will control the Remot. Sensing bases ~~the~~ intelligence. ~~It~~ Starts ~~to~~ from early Sandy period - Chandra & me involved... Took years. Even though ADRIN was for intelligence we had managed to push it under a Computer System for NRSA calls it ADRIN - It was the first Change detection system system to ~~do~~ do surveillance on Western / Eastern Borders - It was paid ~~therefor~~ & utilised by Cab Sectt. Then came DIPAC.

These are but ^{some} ~~one~~ examples how Indian systems are so slow in ~~to~~ thinking ahead and more importantly taking action ahead. ~~I~~ Also to wonder how

(1431)

DRDO was slow to working on these.
Also said that SAC of ISRO did not
develop any software which were to
~~not~~ be obtained. World's still country
did not have a reliable computer
manufacture — thanks to DOE's
oppressive ~~not~~ licence — control
regime. Politicians/bureaucrats
were totally oblivious to these!

§

Sl 7 Folder of dictation on 01/Nov/2018

These are mostly about the types
of Books I read — technical, general
etc. — I was a voracious reader
in spite of all my ISRO/external
& ISRO commitment
Not exhaustive.

Sl 8: Folder of dictation on 02/11/2018
PERSONAL LIFE Glimpses of

(1432)

This is mostly around the life
at Anantnagar Apt @ ~~the~~ Not
full - Uma, Vijay, Vikram
& also father, father-in-law
mother in law - Some colleagues

Just a glimpse - not exhaustive

SL 10 FOLDER 01 records on
11 / Nov 2018. This contains

TRANSITION period from SD.
~~to~~ Many ~~are~~ told here may
not be in ISRO files either.
These are about YP (Yash Pal)

What happened when he went to UNISPACE

What SD told me etc. Then
on his return YP asked me to wait
for making his room. - How
he was adjusted in Delhi in Secy
position - His becoming Secy DST.

Also contains SD's full version

(1433)

his trying to get out of Chair ISRO
ship since ~~1960~~ 1980's - Problems
of the TRID position to be held
together etc, until the selection
of URR. \$D's asking me to
to leave for six months after
URR takes over - The need
for TNS / me - strong person -
requires!

Sl 11 Folder 01 Recorded on 13/11/2018

My selection to International
Astronautical Academy (IAA)

How I add URR name also as
he had become Chair ISRO.

The corresponding printed
papers, their letters are there

They will go aga along with
this paper. Talk on further

(1434)

I have gone beyond the event
to go into other Academies
in India — INSA, IAS etc;
the policies of them; my
distinction in them. Then
Mr P V Indiresan made
me INAE Fellow. Then even
IITC (India Int'l Centre)
Membership All new items
very litter of paper — copies
from 1984 to 1998, but
one cogent narrative

Sl 12 ~~URR~~ Folder 01 19/11^{Nov}/2018
This is about the Decade Profile 1990-2000
presentation by URR to Rajiv Gandhi I had
played a major role in shaping it. Started
at SO's time. VPSingh was Fin. Minister
Dr. Man Mohan Singh was ~~Member~~ Dy Chairman

(1435)

Planning Commission. The way VPS Some
other Cabinet colleagues were there.
I was also present. The way VPS
defended our people. ~~Some~~ Details
are given

Sl. 13 Folder of ~~to~~ 19/11/2018

NNRMS Cabinet Note Approval

This ~~is~~ is a major event. A good
summary note from me on NNRMS to MAK
His letters to me ^(All attached in this copy) I use this place
to describe about MAK's earlier work
association with me. His desire to
have me for TPIC (Technology Policy
Implementation Committee) follow up.
How SD blocked it. Such a
good opinion of MAK, turned hostile
to TIFAC later as we will see
towards end of 1989 & more
in 1990 episodes when he
became MOS (S&T) with VPS due

(1436)

to his hospitality to VRG.

Sl. 14 Folder 01 20/11/18

~~IS~~ INSDOC Committee Rep

relates chaired by Dr. S. Ramasesha
(January 1986)

In this context I also describe Feb 1986.

my ~~ISRO/DOS~~ outside ISRO/DOS

activities in general aspects of S&T,

Society, economy etc. I have
attached the report also. One

important letter from me to

Dr. V. S. S. Shantha ~~10 Feb 1986~~ dt

Sept 10, 1985, on "Scientific Creationism

& Rationality?" by Mr. Michael Cavanaugh
in Nature Vol 315, dt May 16, 1985. It

is philosophical. My observations on

future of science for humanity etc are

there. Have touched upon the emerging

Islamic fundamentalism as well.

(1437)

Despite various work pressures from ISRO, and the internal politics/dynamics of ISRO, the need for me to get out into a reasonable place outside ISRO etc I was keeping my mind engaged in such items also! Was it a "useful" activity? ~~to~~ A big question!!

Sl 15 Folder 01 20/11/18

On role of TN Sesham in ISRO/DOS and for me. Just an introductory part of TNS getting into ISRO (1970's) leaving for Delhi etc. It's a critical role in shaping the DOS / SpaceComms work, making ISRO/DOS to ~~have~~ avoid "needlessly inflexible systems" etc. is ~~is~~ described briefly.

(1438)

~~Some~~ A few other details about
our relationships (TNS & me). His
help ~~is~~ for my transition from ISRO
More would be covered in later 1980's
in this folder, and also in 1990-2000
& even later.

Sl 16 Folder 01 21/11/18

Long dictation 41 minutes & on
Transition to URR. Important for

~~is~~ how ISRO management shapes.
And what SD did not do to create
positions for Senior ISRO persons through
he talks about - I have ^{written} a couple
of notes ~~written~~ earlier during his period
They would be along the written material
Ejecting ~~out~~ VRG out of ISRO and
~~that~~ how SD helped to ease the pain of VRG
- The note by me to send VRG out, I
give glimpses of it - actual papers

(1439)

would be in ISRO/POS files. My
letter ^{of 31/5/1986} (handwritten to SD) clearly
depicting the plight of ISRO persons

The letter ~~with to~~ is attached
with these notes. I have comments
on some parts of the letter in my
Voice Record. Then a letter to SD by
me dated Aug 23, 1986 with a
letter written by me to URR to give me
a position. A little bit of how
my position ~~to~~ to get into IND as DGM
(asked for by then PM Rajiv Gandhi) was
scuttled by URR. ~~The~~ My letter to
URR shows clearly that I had tried
to be in ISRO, if a good position
is given other than being ^{merely} staff in
ISRO. Also described is how
SD was isolated (by URR) within ISRO.
R R. David (Chair ADCOS) humiliation.

(1440)

About R.R.D., ADCOS ek have
written ~~the~~ notes (~~the~~ written
earlier before I had adopted this

Voice Recorder mode) are extensive
This part may be seen with that

All these papers will be put together
as a continuation of these notes, without
any further input. They may be
seen in the context of what I
say in this ~~the~~ Voice Recorder

Sl 17 Folder 01 22/11/18

On International Astronomical
Federation (IAF) 1986 How C.R. Sathya T
was by trying to get him (V.R.R.) ~~the~~ Vice
President position, and trying to get
IAF to India, ^{we} succeeded. V.R.R.'s idiosyncrasy
One hilarious event of J.R.D.
Tata coming to the Air India Plane

(1441)

which was on Transit in Europe

JRD surrounded by hostesses.

URR trying to talk to him

How CRS & D were upgraded to First Class. CRS was afraid

of URR's reaction. How I talked!

A brief mention on how I had moved out of ISRO when IAF came to India in Oct 1988.

Sl 18 Folder 01 22/11/18

Longish covering my ~~for~~ Rajiv Gandhi's shake up of S&T systems.

He wants me for DAM of IAMD to be sent on deputation. It has to be via

YP Secy DST. URR blocked it. I tell those terms. Then Rajiv Gandhi's

parliament speech on S&T for Comm on

The brochure of the talk ~~with~~ is being

(1442)

put in this write up papers. I have quite a few items in this longish voice record.

Max's problems to retain his supreme position. I also give about ^{my interactions with} Arun Singh (MOS (Defence) & V. S. Annachoban.

I also describe RG's familiarity with me right from ISRO days ~~before~~ ~~know~~ My taking him, Rahul Gandhi, & Priyanka to Kavalar Telescope. Rahul's question — RG comments on him

I also make the comments on hindsight God's Grace I did not get into IMD then. This part covers CNR's appointment as SAC - PM (my friend Sid's problems)

~~Then the initial~~ Then comments of the initial functions of CNR as on SAC - PM. SAC - PM review of ISRO

Hilarious comments by SD. (I am still in ISRO in this part)

(1443)

Sl 19 Folder 24/11/18

Trying to help my ISRO HQ
colleagues before my transition
out of ISRO - I describe what
I could do - what I could not

PN Jayaram, Chandra, Krishnan Umni,
K Radhakrishnan (is giving problems
to Krishnan Umni); some
colleagues like VL Swaminathan
ineffective - VRR Problematic ...

Sl 20 Folder 01 24/11/2018

Missed Opportunities for Remote

Sensing Industry in India.

SEP Rene Morin & while
supplying systems for RSSC found
the commercial opportunities of

(1444)

making and selling such systems to ~~SE~~ South East Countries like Malaysia, Singapore & also in India. ~~The~~ In those days those countries had not entered into such industries. ~~He also~~ SEP also found ~~to~~ that knowledge & skills of Indian engineers (example Cita Varadan & other staff of RRSsc) very useful if ~~the~~ SEP opened a company in India — (will cut costs for them). The whole 'drama' with URR is narrated here. Also a later opportunity coming from MDA, Canada which I ducked by putting it with BLD & Varadan... It is narrated.

(1445)

1986/

These were around 1987/88 time periods.

I ~~while saying~~ Had they come,
since they were big industries,

India would have had a great

lead as R's equipment manufacturer

In this context I have also touched

upon the opportunity missed

under SD for setting up Tech. Transfer

Company under VRA leadership (my

note on it, write up etc are in

this chapter earlier) & also about

the PROTON offer by USSR which

was also written about earlier in

this chapter.

SD 2: ~~written~~ on 24/11/2018 Folder 01
My transition from ISRO/DO

to DST/TIFAC

(1446)

It was a complex matter as TNS had gone to Delhi as Geay Environ first. He had interest in taking me. He had told VRG that ~~he had~~ he had interest and the VRG should initiate action only after TNS said "yes"!

TNS had advised ~~to~~ me to write a single note in which I should get the approval so that DOS can use it for financial. Otherwise for me to write ~~to~~ a note when some opportunity arises & get okay from URR would be cumbersome & URR may create problems too!

The distation refers to them
And the drafts, ~~the~~ my note URR
and URR writings are ~~are~~ all

(1447)

form a part of these papers. Will
be kept in the file after these
notes.

~~Since I~~

My career profile from
Research Scholar to DST in one
sheet was available & is referred
But will be put in as papers
attached to these. Useful reference
& chron sequence.

Sl 22 Folder 01 25/11/2018

** ~~This is a~~ SD's concern
about EOS/NNRMS and my
role. His conceptualising of
of EON Centre.

He had discussed with
me and asked me for a draft

(1448)

In his own handwritten he wants
some crucial elements included
for EON Centre
& also ~~also~~ for defining Scientific
Secretary, ISRO role.

These papers will be a
part of this ~~and~~ overall write
up arranged in order after these
notes on Voice Recorder

I have explained in in VRR
& perhaps SD tries with VRR!

Cumulatively all these
led to my quitting. ~~also~~

Sl 23 ~~A~~ Folder 01 25/11/18

**

A Seminal paper by
me on Integration of EOS program
along with Met for SD

(1449)

~~SD~~ was SD after being out of
Chairman ISRO position had been
able to look at some vital
issues as a whole. Due to
internal politics within ISRO HQ
(JPS) and SAC (PPKale), ~~etc~~
isolation of TAAH etc, entire
~~Met~~ Met element was languishing
& not a part of EOS. Chandra has
tried quite a bit to get NOAA
reception at SAC etc.

SD asked me to put
them all together programmatically.
Though I had no further
interest (as SD could do very little
them) I wrote a paper tracing
the entire ~~satellite~~ history of
Earth Obs. + Met Satellites of

(1450)

of NASA etc

How ~~they~~ various elements
rich. DRP had a role.

How & why ~~it~~ they got
fragments in ISRO. I have
used a ~~of~~ blunt language.

A fairly thick report with
drawings etc.

SD had frankly admitted
the problem and wanted me
to write a note as to how

they can be integrated. . . . I
did not do it. It was in 1987. . . .

This note brings out
one of the biggest missed opportunity
for ISRO to emerge as a major
application power for the country & the world.

(1451)

Sl 24 Folder 1 on Dec 10, 2018

Glimpses of life in ~~Ata~~
Antarksh — incl. TNS these

Some younger ones in the age
group of Vijay, Vikram etc

No papers — From memory
Not exhaustive. Some major items

Covers

Sl 25 Folder 01 Dec 10, 2018

* ISRO to DST Transition

Many papers involved. Have attempted
to give ~~a~~ a simple continuous
picture.

This dictation also covers
beyond this transition related items,
to cover some papers I had

(1452)

written for TNS. saw Dr A.K.N. Raddy
etc. They are on crucial elements
on S&T matters. — not limited
to my work or job. (as was
my practice to write on such items)

It goes beyond my joining
in 1988 to 1989 when ENR ~~was~~ started
creating problems for VRG. Some
papers are referred, they are
attached hereon.

* A very good summary
paper, I had written to Sam Pitroda
about his works (involvements). That
was for my advice to him (he
periodically used to discuss
in such matters)

(1453)

* A reference to a letter from
MAK 1988 to me very good
about NNRMS, covering in his
letter several phases of my work
en. Probably the last good one
(before I left ISRO)

This narration covers
many other items also:

* A note covering my work
dt Oct 1985, starting from 1964-1985
— may be forepared for VRA for
him to process my files for DST
It is a very good narration.

* Then another paper is placed
which gives the "pecking order" in

(1454)

ISRO as of \$ 1.1.1988

I am 9th in it!

Some comments are made on the above papers

Others briefly mentioned in this manuscript are

- My note on Indian Science Academies to Dr. A.K.N. Reddy

- SD's long note on Education in India. He had sent a copy to me

- Lastly my handwritten note to SD on ISRO

at Oct 1989 — ~~about~~ some

15 months about problems within ISRO for ISRO people —

(1453)

Sl 26 Folder 01 14th Dec 2018

LAST Phases of my transition
from ISRO. Final Approval
from ORR to go to ~~IS~~ DST
on deputahm. ~~Ad~~ etc

Rushing to Delhi to join
DST as VRA wanted it — no normally
allowed leave — Vikram admission;
no help. Not treated as IAS etc
getting house; ... Early working of his
DST/TIFAC — a lot covered
— in a way the last phase of
the years 1980-90

Sl 27 Folder 01 14th Dec 2018

* IMPORTANT IPR related problems
with USA; started ~~over~~ very early
in 1988 study — A.V. Ganesan notes

(1456)

A committee with me as Chair,
K.R. Narayan's wife.

My direct involvement at
very high level Indo-USA talks
on IPR. Atima Bordia — P.K. Kaul
as Ambassador

The Ignorance of SET admin/
leaders etc Also their selfish interest.

These papers are in a folder — will
form the overall write up.

Very important about TeOI,
leaders, Indubly etc were oblivious to
this important issue. How India
lost some important points.

* A letter from me to
Dr. S. Ramasethan at his request
for inputs to Current Science (1989)
~~the~~ How unfortunately

(1457)

relevant it is, today as well?

(@ 2018) sad !!

~~A~~ Glimpses of my views
on fall of USSR
and Chinese handling of
Tiananmen Square.

Sl 28 Folder 01 15/12/18

Oct 1988, Australia Visit with

K.R. Narayanan MWS (S&T

Some glimpses very brief
(no papers)

Sl 29 Folder 01 15/12/18

Long one. ~~A~~ This is all

about VRA's Internal processes
within DST (early 1988 to end 1989)

(1458)

These contain several unrecorded items — if these are used with DST files which will be messy, one can get a good picture of some of the good practices by VRA, useful even now.

How I helped in FCS in DST. Important initiative. Some glimpses of its working

Agni launch — reference to my poem to Kalam & VSA.

Also to a poem Waiting for the ^{Best} Twentieth Century. written

in 14 Nov 1989 hearing the news of death of Rohan Vijaya Veera (Part of it is in the book Agony Attorney)

(14587)

* FCS implementation → For the first time in ~~D~~ non-DAE, non-ISRO, non-DRDO Science organization / Secretariat

Some important poem → ^{Agony & Anxiety}
Waiting for the 21st Century
Written 1989 after the death of ~~the~~ Rohana Vijaya Veera.

- Some problems for Rajiv Gandhi
Briefly mentioned.

~~File~~ Sl. 30 Folder of 15/12/18

All about Garbage processing plant at Bombay - Not just its origins but also the later

~~version~~ part spanning other years

How CMC - PCCwptc was involved in Slum Latrines as well.

(14⁶⁰)

Sl 30 ^(copy) Folder 01 15/12/18

* A very detailed narrative about the Garbage Processing Plant & Latrines in Slums

~~Dr~~ Hariz was met with SET committee MAK as Member P.C

Role of P.B. Krishneswari

PP Gupta, Sreenivasa Seldy Indichu,

Anjan Das - - - -

1993 notes

Some comments about the current Swaccha Bharat.

Sl No. 31 Folder 01 Last item
dicto on 16/12/18

Many ^{early} phases of my
Delhi life - Personal

See

1461

(14~~64~~)

How MAKY as PC - Mentha (Sarene)
tried to block etc

See
p. 1460
Add in

Induction of P D Majumdar

Sreenivasa Reddy, Anjan

And some comments of on

Sravaccha Bharat of @ 2014

Sl 31 Folder 01 Last Item

dictated on 16/12/18.

Early phases of Jelli life
(1988 + ...) personal; quasi-personal
VP Singh as PM. & TNS problem

Misc Titbits from ISRO day.

Early help for ISCA (Science Congress Org)
for AP mitra etc

Also see next page
1462

See the
VR yellow paper
with notes
other notes
to help VR.

END OF CHAPTER - 5

1980 - 1990

(Go to Chapter 6).

(1469)

Quasi - Personal.

VP Singh as PM

Problem for TNS — ~~what I told~~
how he felt being posted ~~for~~
as Member PC — my offer to him

Misc. Hit hits from ISRO

Early ISCA help to AP Mitra

(That is covered in 1990-2000 Chapter 6
dictation as separate item for
all of ISCA)

END

Now follow the papers
referred to here. Some in ~~more~~ more
than copy — Not taken separate
Xerox — My originals placed
as such.

Chapter 5 - will
end with them