

ISRO HEADQUARTERS  
MINI MEMO

To: Prof. S. Dhawan  
Chairman, ISRO

I have not seen any  
internal ISRO Management  
Structure for MONEX, nor  
the mechanisms for interface  
with IMD. If Chairman has  
decided anything I would  
like to know. Chairman's  
memo says that I deal with Met.?

Regards.  
FROM: Ravi Sharma

DATE: 22/3/77

Dr. Ravi D. Sharma

Monex files

Y S Rajan  
ISRO HQ  
17 Mar 1977

Record of decisions taken by Chairman regarding ISRO MONEX  
Project at VSSC, Trivandrum on 15.3.77 at the meeting held  
in Director's Office  
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The following were present:

Prof S Dhawan  
Dr Brahm Prakash  
Prof P D Bhavsar  
Mr R Aravamudan  
Mr V Sudhakar  
Mr Rajarathnam  
Mr Y S Rajan

The items discussed are given as an attachment to this  
record. (See Attachment 1).

Decision 1:

V Sudhakar to take immediate action for recruitment of per-  
sons for elements related to the ISRO-MONEX project at VSSC.  
The recruitment will be on a project appointment basis for  
two years, extendable upto five years. The items for which  
the manpower has been approved are as under:

- (a) 25 persons for the production of Menaka-II Mark-II  
immediately. For the rest of the items over and above  
25 persons that were asked for by Sudhakar, they would  
be scrutinised by Director, VSSC and recruitment shall  
take place as decided by Director, VSSC. However, for  
the 25 persons, action from VSSC to proceed immediately.  
Information regarding the terms and conditions for  
these persons will be sent from HQ within a week.
- (b) 26 additional persons for the launch station are  
approved for project appointment.

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However, it should be noted that for the above two items no recruitment shall take place, in case of administrative posts. This can be done only after certain norms are finalised and appropriate approvals obtained and communicated to VSSC. For the launch station, Chairman, ISRO will explore the possibility of having one SC Engineer from the Birla Institute of Technology, Ranchi.

The manpower requested for by Sudhakar, quoted in (a) & (b) above are as given in Attachment 2.

Decision 2:

Abandon Menaka-II Mark-I production except for the filler period, that is, upto August 1977. This was done in view of the statement from Sudhakar that these rockets have dispersion in their performance and he does not have confidence in their reaching 50-55 km consistently. From now on development and production of only Menaka-II Mark-II, will be done and these shall be utilised for MONEX.

Decision 3:\*

The total number of rockets to be utilised for the whole MONEX programme (including development, testing and actual experiment) shall be restricted to 100 rockets in all and the production programme of ISRO shall be restricted to this. (This includes launches from Thumba and Balasur and/or SHAR)

Decision 4:

VSSC to go ahead with the construction of a C-band radar under the ISRO-MONEX project in addition to the construction of the TERLS radar. The S-band system existing (either that of Thumba or of SHAR) should act only as a back up system

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\*May be revised in view of the recent note from Prof Bhavsar

and this should be mentioned in the ISRO MONEX project report to be submitted to MONEX Management Committee (MMC). Aravamudan/Sudhakar to make experimentation of tracking S-band chaff itself with C-band radar and also experiment with making C-band chaffs. This should be done simultaneously with the programme of construction of C-band radar mentioned above.

Decision 5:

Prof Bhavsar to draft a letter for Chairman to be sent to Mr Mukherjee regarding -

- i. the scientific content of the ISRO component of the MONEX to be specified by I.Met.D. clearly, and
- ii. Regarding the development of temperature sensor payload for the rockets being done at IITM and ISRO views on these.

Copies of the earlier letters sent by Chairman to Mr Mukherjee will be made available to Prof Bhavsar by Rajan/Jayaraman.

Decision 6:

A transportable launcher should be built for the Balasur range and it should be reflected in the Project Report.

Decision 7:

Responsibility for development of temperature sensor payload (for Menaka rockets) within ISRO should be fixed by Prof Bhavsar and details regarding such an assignment of responsibility should be communicated by Prof Bhavsar to Chairman, ISRO, Directors, VSSC and SAC.

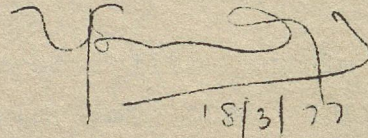
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Decision 8:

A preliminary draft on the technical components for the third (Balasur) rocket station including the above mentioned elements should be prepared by Sudhakar and presented to Chairman ISRO by 21 March 1977. The final report which should include the scientific content of the programme etc should be done by Prof Bhavsar jointly with Sudhakar and his team, in three weeks from the date of this record.

General:

Chairman, ISRO desired that Sudhakar utilises the SHAR personnel to the maximum extent possible for the manpower needs mentioned under Decision 1, at least till the staff on Project appointment take position.



18/3/77

Distribution:

Chairman, ISRO  
 Dr Brahm Prakash, Director, VSSC  
 Prof Yash Pal, Director, VSSC  
 Col Pant, Director, SHAR  
 Mr Y S Das, Joint Secy, DOS  
 Prof P D Bhavsar, Chairman-RSA, SAC  
 Mr K V Venkatachary, Project Manager, ISTRAC, SHAR (2 copies)  
 Mr R Aravamudan, Range Director, TERLS (2 copies)  
 Mr V Sudhakar, Programme Manager, R3R (2 copies)  
 Mr V Siddhartha  
 Dr Ravi D Sharma  
 Mr P N Jayaraman  
 Dr K S Prabhu  
 Mr S Chandrashekar  
 Mr Rajarathnam

SUMMARY OF ADDITIONAL MANPOWER NEEDED  
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IN VSSC (TRIVANDRUM) FOR MONEX  
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Designation	No. of posts
1. Engineer SC (Electronics)	1
2. Technical Assistant 'C' (Electronics)	1
3. Technical Assistant ICI (Mechanical)	1
4. Technical Assistant 'C' (Chemical)	1
5. Technical Assistant 'B' (Mechanical)	2
6. Lab Assistant 'B'	3
7. Tradesman 'B'	23
8. Tradesman 'A'	13
9. Helper	5
10. LVD	1
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SUMMARY OF THE PERSONNEL REQUIRED  
FOR THE OPERATION OF THE BALASORE RANGE

Designation	No. of posts
1. Engineer SC	3
2. Engineer SB	1
3. Scientific Assistant 'C'	1
4. Technical Assistant 'B'	8
5. Draughtsman 'D'	1
6. Tradesman F/D/B	6
7. Purchase Assistant 'B'	1
8. Accounts Assistant 'B'	1
9. Office Clerk 'B'	1
10. Drivers (LVD-2, HVD-1)	3
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