EXPERIMENTAL SATELLITE COMMUNICATION EARTH STATION

TELEGRAM : SPACE
TELEX : AM 239

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Lt.Col.N.Pant
Director.

SC/DIR/1 10th September, 1971.

Dear Shri Sundararajan,

This has reference to your letter No. 2975 dated August 26, 1971 regarding the document concerning ESCES station for inclusion in the ATS-F & G test plan. I have gone through your comments and following are the clarifications:-

Page 5 - 11 Conical Scanning - The amplititude modulation ratio introduced during tracking is 6.3% or mod index is 0.063

Page 5- 14 Gain - The clarification given by Shri Sitaram is correct.

Page -6 -7. Power handling Capacity - As the power required to meet EIRP specifications for R & RR is a few watts only, the total power the feed has to handle is within 6 K.W.

Page 6 - 2.1 Tracking System - VHF tracking receiver has been developed but the required antenna configuration is under fabrication.

Page 11 - 3.1.1. Item 4 - We are developing different pre and de-emphasis circuits to suit SITE requirements.

Page 12 - Exciter - L.O. frequency stability is 1 part in 10^6 over a period of one month. There is no tuning for exciter

Page 15 - Item 3 - Frequency stability of L.O. for communication is 1 part in 10^6 over a period of one month but for tracking 1×10^{-6} per week.

Page 15 - 860 MHz Feed - Any modification on our subdish is not desirable as we are using conical scanning where the subdish itself is rotated.

When I come there for DAE-NASA meeting I will be see you.

With regards,

Yours sincerely,

(Lt.Col.N.Pant)

Shri Y. Sundararajan,
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