

3/9/98

- 1) Dr. Kalam, ~~I can~~ we are all proud of your missiles and nuclear bombs. Since when did you start your ventures in economic and social transformation?
- 2) Bihar and <sup>Eastern</sup> ~~Eastern~~ UP are ~~made~~ run by feudal landlords, criminals and corrupt politicians — How can you imagine changes in land productivity in such areas?
- 3) How to become 'developed country' with such mustard oil adulteration?
- 4) Your book is silent on investment? When you need 7 to 8% growth, it cannot come without investments. What is your vision?
- 5) If our patent laws get amended to 'product' patents most of the

Indian goods will be violating some patents and you can't use them commercially. So how do we build technology strengths?

6) The rate at which developed countries are patenting natural products like ~~the~~ Turmeric, Tamarind ~~and~~ Neem, Basmati Rice etc, does India have a chance to exploit its Biodiversity as envisaged in your book?

7) Defence technologies are very costly? How can their spin off help a poor country like India. Can you cite one example of commercial success of a defence spin off? ~~the~~

8) Any big technology project in the country is plagued with ~~problems~~ schedule problems. e.g. LCA, ~~by~~ GSLV, ~~the~~ Nuclear reactors. They depend ~~heavily~~ on foreign components/technology also adding further threat of sanctions. Such being the case how do you ~~see~~ dream of strategic Industries.

9) ~~Despite~~ ~~how~~ so much investment in DRDO, HAL, ~~and~~ NAL and IIT's India has not produced one aircraft? How do you envisage strategic strengths?

10) Nuclear tests have attracted sanctions thus affecting investments and economic growth of the country. Therefore your economic projections of 7.68% ~~are~~ are a pipe dream. Any comments?

- 11) Can the nation afford costly experiments to satisfy the dreams of technologists.
- 12) What has TIFAC done different from NCST?

1) Dr. Kalam, you have talked about Realising the <sup>actions</sup> Vision? How do you envisage several <sup>independent</sup> actions leading to the Vision?

2) What you envisage the five thrust areas of actions to be organised? — as another set of national missions?

3) ~~To~~ Can you elaborate on your Vision for Materials — Steel, Titanium, Rare earths etc. ? What about foreign competition?

4) Even with the rapid economic growth and technological strengths envisaged in your book, India will be behind USA, Japan and China, may be Germany? Do you envision India being the first? By when?

5) When you were young, say in the late fifties you had opportunities for DRDO, ISRO etc. But present day youth even after severe competitive exams ~~face~~ get no challenging jobs in the national laboratories or in industry. What is the solution?

6) You keep confidence in the youth? They have no good jobs; ~~but~~ No availability

(8)

of venture capital funds <sup>[from banks]</sup> which go only for those who have property or influence. Have you any solutions in mind?

7) Can you elaborate your dream for food security?

8) Can you explain DRDO contributions to the rural areas?

9) What is ~~the~~ your vision for utilising human resources from India, especially from the rural areas, towns and ~~the~~ poorer sections of India?

10) Some people feel technologists and scientists should not balk

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about economics or social aspects and leave it <sup>to</sup> others and do the jobs assigned. What do you feel?

11) What is your vision for basic research?

12) Most people accept that our national laboratories have become bureaucratic and need reengineering? Have you any plans?

13) How to strengthen IPR regime in India.

14) How do you interest the Indian Industry to invest in technologies? Their record is poor even after liberalisation and tax incentives?

15) Questions on the DRDO

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projects: Agni II, Prithvi,  
MBT Arjun productionisation,  
LCA schedules etc

16) What is the progress on  
Defence self-reliance plan

70% - 30% .. etc

17) ~~How will~~ Suppose Russian  
~~is~~ is pressurised to stop defence  
relationship with India, will  
it help self-reliance, as  
it was the case for super computer?

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18) You have not addressed  
population control - don't  
you think it is important?



(A) How to realize the vision  
Who will be his boss

Population explosion, How dynamic

Silent on his investment

Descent  
costs

Spine