

Q.

The semiconductor mission can give fillip to the sustainable development to the chip and display industry. explain.

Ans.

The union cabinet approved a ₹6,000 crore scheme to boost semi-conductor and display manufacturing in the country, total ₹30 lakh announced for electronic sector.

Why do semiconductor mission ?

(1) technology :- like 5G, Artificial technology, fastest data flow processes and memory in we need new semiconductor architectures.

(2) Geopolitical :- China, US, Vietnam, Japan etc. Semiconductors have become major front in US-China trade war. Also this manufacturing, materials are in this in the hands of few countries.

(3) Economy :- In era of globalization semiconductor contribute nearly \$2.3 trillion of world's GDP. Includes both upstream and downstream economic value.

Our semiconductor industry and challenges :-

(1) India has a large pool of chip designers but lack of engineers. comp

lexity of technology, material and manufacturing in few handful countries, investment is biggest concern for this initiative.

(2) fiscal support in investment typically required to set up of the semiconductor industry.

(3) It can cost billion dollars for even small scale technology by which we may fall behind from countries like US, China etc.

(4) our scheme only give 50% of cost setting up two greenfield. approx. 70 \$ billion is left to support element like display fabs, packaging, testing facilities, chip design etc.

(5) required millions of liters water and extremely stable power which is problematic.

(6) we have talent but never built up chip fab capacity. ISRO, DRDO have their fab foundries. but for own requirement.

(7) if we focus on fiscal support now and chip making and designing then we surely has talent and experience.

way forward :- if we strategize on design and functionality, attract FDI or our partners like Qual, SAARC,

for investment, we can also use for India.
- taiwan agreement for manufacturing
in semiconductor further two-way
economic engagement and supports

Conclusion :- In era of electronic ma-
nufacturing this initiative pave way
for india's leadership in these area
of strategic importance and economic
self-reliance. or Administrative body

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