w/o pvt partnerships in R&D India cannot possibly move up global supply chains. In this context, discuss factors that discourage pvt sector from ↑ R&D spending & suggest measures to overcome

India became the net covid vaccine exporter and saved millions of life worldwide. This was due to the research done by private sector with needed government support. Private participation in research and development has been gloom.

Discouraging factors

The research ecosystem in India has been not conducive for the private sector due to

① Government presence - Elite research institutions and labs are run by government with lesser liberty to private sector.

② Intellectual property - The IPR regime in the country is not protective and subject to plagiarism.

③ Funding - with 60% of government expenditure on research coming from government, yet, the allocation is only 0.7% gdp much lower than other developing countries with 1.4% gdp.

④ Foreign investment The FDI for research is still abysmally at only 0.13%.

⑤ Talent - The higher education institutions needs to attract top talents that can drive innovation

⑥ Bureaucratic hurdles in procurement of research equipments and travel for research.

Government ~~has~~ is in the process of reversing this trend and provide environment for research.

~~Corr~~ Corrective actions

The initiative such as the National Research Foundation which aims to facilitate research by linking industry and academia is a good step.

The Budget 2024-25 proposed one lakh crore corpus to fund and boost sunrise sector that can ramp up innovation.

Robust private-public partnership with top 100 institutions and labs along with private sector can improve the research base. The corporate social responsibility funds can be released for enhanced research.

The Vaibhav scheme that brings non-resident Indian to conduct research can be taken as an inspiration to improve the private sector research when others nations are racing ahead.