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Q11

Explain the meaning of investment in an economy in terms of capital formation. Discuss the factors to be considered while designing a concession agreement between a public entity and a private entity.

UPSC Civil Services Mains 2020 · GS III · 15 marks · Indian Economy

Indian Economy and issues relating to planning, mobilization of resources, growth, development and employment.

Core demand of the question

- Explain the meaning of investment in an economy in terms of capital formation. Discuss the factors to be considered while designing a concession agreement between a public entity and a private entity
- Keep the explanation within a 15-mark length

Revision summary

Investment in the national-accounts sense is capital formation, chiefly **GFCF**, not secondary share trading.

Net investment after depreciation raises the capital stock and potential output.

A PPP concession pulls private capital into a public-purpose asset for a defined term.

Design must allocate land, demand, and construction risk, and fix tariff, termination, and lender step-in.

Vague scope, delayed ROW, and endless renegotiation are how Indian PPPs destroy value.

Introduction

Investment, in national accounts, is not a stock-market purchase of existing shares. It is **capital formation**: spending that adds to the stock of machines, structures, intellectual products, and inventories used to produce future output. A PPP concession is a contract that tries to pull private capital into that stock when the public entity will not, or should not, carry every rupee and every risk.

Body**Investment as capital formation**

- In the SNA sense, **gross capital formation** is gross fixed capital formation plus change in inventories and valuables. **GFCF** is the core: dwellings, other buildings, infrastructure, machinery, cultivated assets, and some IP products.
- **Gross** investment includes replacement of worn-out capital; **net** investment is gross minus depreciation. Growth of potential GDP tracks net addition to the stock, not a mere reshuffle of ownership.

- Household buying of a new house is investment; buying an old house is a transfer. Government building a highway is public **GFCF**; a firm's plant is private **GFCF**.
- Financial investment (bonds, secondary shares) finances capital formation when it funds new projects. It is not itself the machine.
- **India's growth debate is often a GFCF-to-GDP debate:** crowding-in private capex, public infrastructure, and avoiding a savings-investment gap that shows up as a current-account deficit.

Why PPPs enter the story

- The State wants an asset (road, port, airport, power, metro) now; the private entity brings capital, construction skill, and sometimes operations.
- **The concession is the legal device:** the public entity grants a right to build, operate, and earn for a term, then typically returns the asset (**BOT**, **DBFOT**, hybrid annuity, and related forms).

Factors in designing the concession agreement

- **Clear scope and output specs:** what is to be built, service levels, and how completion is certified. Vague scope is a variation-order machine.
- **Risk allocation:** construction, traffic/demand, land, environment, forex, inflation, and political change should sit with the party that can manage them. Dumping land risk on the concessionaire after the bid is how projects stall.
- **Revenue model:** user charges, shadow tolls, **VGF**, or **HAM** (hybrid annuity) - each changes bankability and the public's residual liability.
- **Land, permits, and utilities:** the public entity must timeline ROW and statutory clearances; the 2006 EIA process, forest, and railway crossings are not private magic.
- **Tariff and reset:** formula, independent regulation, and inflation index so neither party lives on annual political bargaining.
- **Termination, step-in, and lenders' rights:** banks will not fund a concession they cannot take over if the **SPV** fails.
- **Force majeure and change in law:** COVID-style shocks showed why these clauses need cash, not only recitals.
- **KPIs, independent engineer, and audits:** availability, safety, and maintenance, with liquidated damages that are enforceable.
- **Renegotiation rules:** Indian PPPs often reopen; the contract should say when a genuine change of circumstances is allowed, so renegotiation is not a prize for the aggressive bidder.
- **Transparency and conflict:** bid criteria, Swiss challenge caution, and no related-party O&M that strips the **SPV**.
- **Social and environmental covenants:** resettlement, local employment, and actual EMP - not a paper annex.
- **Exit and residual value:** handback condition of the asset, so the last five years are not a milking period.

Design failures to avoid

- Aggressive traffic forecasts, delayed land, and one-sided government termination have filled Indian arbitration dockets.
- Model Concession Agreements (**Planning Commission** / later **NITI** and sector MCA of **NHAI**, ports, airports) exist so each district does not invent a new imbalance.

Flow diagram

Investment -> Gross fixed capital formation
PPP concession concession -> Asset plus service
Risk allocation -> Bankable project
VGF HAM tolls -> Bankable project
Land permits KPIs -> Bankable project
Bankable project -> Gross fixed capital formation

Conclusion

Investment as capital formation is new productive stock, measured mainly as **GFCF**. A PPP concession should allocate risk to the party that can bear it, lock a bankable revenue model, timeline land and permits, and write termination and KPI clauses that lenders and users can both live with. A concession is a constitution for one asset, not a press note.

Facts & figures

GFCF

Gross fixed capital formation: the principal statistical measure of investment as new fixed assets.

VGF

Viability Gap Funding: public grant to make a socially needed but commercially thin PPP bankable.

HAM

Hybrid Annuity Model used widely in highways: construction support plus annuity, sharing traffic risk.

Model Concession Agreement

Standard templates from the former **Planning Commission**, NITI, and sector authorities to discipline risk clauses.

SPV

Special purpose vehicle that typically holds the concession so lenders can take security over one project.

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