FINANCING INFRASTRUCTURE PROJECTS

Trans-Asian Railway Course
BIMSTEC & MGC Railway Officers

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Infrastructure Project Characteristics

- Traditionally Government funded
- Normally for public utilisation
- Impact socio-economic environment
- Capital Intensive and Long gestation period
- Assets have long life
- Either 'Open Access' or 'Limited Access' Services

Trans-Asian Railway

- Many countries to build new and missing lines
- Interoperability may require investments in rolling stock, locomotives, common maintenance facilities, signalling etc
- Every country may not find required resources on priority
- Non-government funding therefore becomes essential for implementation public private participation (PPP), Build operate Transfer (BOT), Build Own Operate Transfer (BOOT), Build Own Operate (BOO), Build Own Lease Transfer (BOLT) etc

Benefits of Public Private Partnership?

- Reduces Government's funding
- Private enterprise able to reduce project cost through better and faster implementation
- Government risk reduces
- Government support and private enterprise provide synergy to project
- Better service to public as specialisation becomes available

Special Purpose Vehicle (SPV)

- Company set up for specific purpose
- Promoted and supported by principal stakeholders
- Part financing by 'market borrowings' –
 debt: equity ratio important
- Options for operation and maintenance
- Fair and just Concession a pre requisite

Benefits to SPV by Government Participation

- Easier availability of land, approvals, clearances etc
- Signal of support to lenders
- Greater the support easier the finance raising and terms

Steps – Project Development

- Determine scope of project & Engineering, Procurement and Construction (EPC) cost
- Determine other expenses: Development costs, Financing costs, costs to mitigate Environment & Social impact etc.
- Assess total 'Traffic'
- Determine Operation & Maintenance (O&M) costs
- Risk & Mitigation Plan
- Project cash flows through concession period
- Financial analysis –most efficient financing method

Financing Methods

- SPV
- Concession
- Leasing
- Securitisation

Due Diligence - Risks

1. Project Completion Risk

- Design & Construction Risk
- Cost & Time Overrun Risk
- Financing Risk

2. Market Risk

- Volume & Price Risk
- Payment Risk

Due Diligence - Risks

3. Operating Risk

- Performance Risk
- Maintenance Risk

4. Regulatory / Political Risk

- Change in law or Political Force Majeure
- 5. Force Majeure Risk
 - Events outside control of borrower / lender

Evolution of Project Financing

• Earlier

- Largely based on sponsors' strengths
- Limited structuring
- Sometimes sponsors did not meet commitments

• Now

- Based on future cash flows as main source of debt servicing
- Structured for risk mitigation
- Focus on project architecture

Structuring Characteristics of Infrastructure Projects

- 'Willingness' to Pay by user is important
- Normally implemented when critical
- Natural growth of Demand likely
- Facility designed to provide sufficient spare capacity – usage low initially
- Debt: Equity ratio; Debt Service Coverage Ratio important criteria

Financial Structuring

- Is process of *Managing Financial Risk* and *Building Consensus Amongst Stakeholders*:
 - Balancing risk profiles of participants
 - Suit expectations of parties on investments
 - Principle of higher reward for higher risk applies
 - -Covers estimated cash flows, gearing, available financing, terms of finances and risk appetite
 - Preferably project debt and equity paid back from cash flows generated by project

Sources of Finance

- Speciality Funds equity funding
- Debt Finance
 - Long term debt from international markets
 - Developmental Financial Institutions
 - Commercial banks
 - Multilateral Institutions
 - Export Credit Agencies

Other Options of Funding

- Bonds:
 - Taxable
 - Tax Free (where permitted)
- Discount offers to beneficiaries in user rates
- Gap Funding by Government
- Local Government grants

More Funding sources

- Pension funds, Provident funds
- Insurance funds
- Trust Funds

These look for safe investments, less risk and assured regular return over extended periods – ideally suited for infrastructure projects – tax incentives also available

HARD TRUTH INFRASTRUCTURE PROJECTS

 No matter what financing is done or who are the investors or what is the shareholding pattern –

THE GOVERNMENT IS ULTIMATELY RESPONSIBLE FOR THE ASSET

Thank You for your attention

On behalf of AITD I wish all participants a pleasant stay and fond memories of their visit to India