

Expression of Interest from a professional expert for conducting:

**STUDY ON CARGO MOVEMENT BETWEEN MINOR PORTS OF
KERALA AND MAJOR CARGO SOURCES OF MAHARASHTRA
& GUJARAT THROUGH COASTAL SHIPPING**

1.0 SCOPE AND OBJECTIVES

The primary objective of the study is to prepare a project report for exploring the possibility of operating a chartered vessel through coastal shipping between those locations in Kerala and Maharashtra & Gujarat based on cargo availability and also for providing base data to other operators. Towards realizing the broad objective, the specific tasks involved in this study are given below:

- Identify and assess quantum of inward and outward cargo between Kerala ports (Kollam, Kochi, Beypore, Azheekal) and major ports in Maharashtra (Mumbai & JNPT) & Gujarat ports (Morvi, Surat and Mudra). The prospective of shippers like FCI, SAIL, CERA etc for inward and outward sector wise cargo movement shall be identified.
- The containerised movement shall be considered for cargo movement. Ro-Ro aspect may also be studied.
- Work out projected cargo for different horizon years like 2022, 2027 and 2032 and quantify the divertible traffic to coastal shipping.
- Scheduling of a suitable shipping vessel for operation based on the demand.
- Work out the cost involved for vessel movement in each sector (for eg Kollam and Mudra or Azheekkal and Mumbai)
- Work out Financial Internal Rate of Returns (FIRR) of the project. If it is not found financially viable, suggest suitable mechanism for making it viable by considering government support like VGF, incentivisation etc for a short period (say 3 years) till it become self sustainable.
- To design and recommend a suitable incentive structure with the data so collected.

2.0 METHODOLOGY

2.1 TRAFFIC VOLUME SURVEY AND O-D SURVEY

2.1.1 WATER BASED

The traffic volume survey and origin destination study of the shipping vessels will be conducted at the major ports of Kochi, Mumbai and JNPT and selected minor ports of Kerala and Gujarat and perishable and non-perishable cargo will be classified/identified.

2.1.2 ROAD BASED

Origin destination survey of goods carrying vehicles will be conducted at selected survey stations in Kerala, Maharashtra and Gujarat and volume count of all vehicles will also be conducted at same stations. The divertible traffic from road transport to coastal shipping will be assessed.

2.2 INDUSTRY SURVEY

A detailed survey of industries along the influence area will be carried out to collect information about the details of raw materials used, the finished products, modes of conveyance used, distribution of raw materials and finished goods, cost of conveyance etc. Discussion with representatives of Chamber of Commerce and industry will also be held. The possibility of goods transportation from the industries through coastal shipping mode shall be explored.

2.3 FEASIBILITY

The potential cargo movement through coastal shipping for horizon years like 2022, 2027 and 2032 will be projected and 2017 data will be assumed as base year. During discussion Port Department informed that they will suggest a suitable vessel for operation in the sector. The fuel/hour consumption of the identified vessel, its operation & maintenance and Financial Internal Rate of Returns (FIRR) will be evaluated. Suitable incentivisation mechanism will also be recommended if it is not found viable in any identified sector.
