

Scope of Surveys, Investigations and Studies:

1. Bathymetric Hydrographic Surveys

1.1 Dahej

The Consultant shall undertake hydrographic surveys with a grid spacing of **5 metres x 5 metres**, including **10% transverse line spacing**, and shall prepare survey maps at a scale of **1:2000**, in accordance with applicable standards and statutory requirements.

1.2 Mahuva

Bathymetric data as investigated at the **Preliminary Feasibility Report (PFR)** stage shall be made available by the Authority. The selected bidder shall undertake a detailed review and analysis of the said PFR and shall determine, at its own cost and responsibility, the requirement, if any, for additional bathymetric surveys or investigations.

2. Onshore and Offshore Geotechnical Investigations

2.1 Dahej

The Consultant is required to carry out surveys for at least **six offshore boreholes** with a depth of at least **40 meters** (and **3 meters** in case of hard rock) as well as at least **three onshore boreholes** with depth of at least **15 meters** or up to hard surface.

2.2 Mahuva

Data pertaining to **three (3) boreholes**, as specified in the RFP, shall be provided by the Authority. In addition thereto, the Consultant shall carry out geotechnical investigations comprising at least three **(3) additional offshore boreholes** to a minimum depth of **40 metres** (and **3 meters** in case of hard rock).

3. Topographical Surveys and Current Measurements

3.1 Dahej

Topographical surveys shall be carried out using **Differential Global Positioning System (DGPS)**.

3.2 Mahuva

Related data as investigated during the PFR stage shall be provided by the Authority. The selected bidder shall, upon detailed analysis of the said PFR, determine the necessity and extent of any additional surveys or current measurements required for preparation of the Detailed Project Report.

4. Other Studies

The scope of work shall include **all surveys, studies, investigations and simulations** required for preparation of the **Detailed Project Report (DPR)**. This shall include, but not be limited to, data collection, traffic potential assessment, detailed surveys, site analysis, traffic and demand forecasting, vessel size estimation, engineering surveys and investigations, mathematical modelling using 100 years of cyclone data, detailed port layout and master plan preparation, project cost estimation, traffic and revenue analysis, financial analysis, intermittent services assessment, dredging requirement assessment, and preparation of bathymetric survey charts for the proposed finalised sites.

5. Buildings and Facilities

The architectural design for administrative buildings and associated facilities shall be prepared by the Consultant using **standard functional layouts**, suitable and adequate for **tendering and bidding purposes**.

6. Role of Preliminary Feasibility Reports (PFRs)

The **Preliminary Feasibility Reports (PFRs)** for **Dahej and Mahuva** shall be made available to the selected bidder for reference. The bidder shall, after carrying out a detailed analysis of the said PFRs, independently determine, based on its **professional judgement, technical wisdom and experience**, the **nature, type and quantum of surveys, studies and investigations** required for completion of the assigned scope. Any such determination shall be deemed to be included within the overall scope of the Consultant, and no additional claim on this account shall be entertained by the Authority.