

Assignment Notice - GV2050-001

Consultancy title	Team of two national consultants to support development and implementation of pilot projects for low/zero carbon shipping in India		
Reference	GV2050-001		
Contract type	Individual consultancy		
Period of contract	80 working days over a duration of 8 months (September 2021 to April 2022)		
Contracting organization	International Maritime Organization (IMO)		
Cooperating agency	Directorate General of Shipping of India		
Project title	IMO-Norway GreenVoyage2050 Project		
Date of issue	30/07/2021	Closing date for submission	23/08/2021

Background

The IMO-Norway GreenVoyage2050 Project is supporting developing countries, including Small Island Developing States (SIDS) and Least Developed Countries (LDCs), to reduce Greenhouse Gas (GHG) emissions from shipping through effective implementation of the Initial IMO Strategy on reduction of GHG emissions from ships (resolution MEPC.304(72)) and resolution MEPC.323(74) encouraging voluntary cooperation between the port and shipping sectors to contribute to reducing GHG emissions from ships. India is a participating country in the Project. For more information on the Project, visit <https://greenvoyage2050.imo.org>.

Brief description of the assignment:

The IMO, in collaboration with the Directorate General of Shipping of India, seeks proposals from a team comprising of **two qualified individual national consultants from India** to support implementation of GreenVoyage2050 Project activities in India.

The objective of this assignment is to provide support to the development and potential implementation of low/zero carbon pilot projects for maritime shipping in India. It is expected the consultants will be engaged on a longer-term basis and be involved throughout the process from the pilot project inception phase and through project development. In undertaking this assignment the consultants will be expected to work in close coordination with the Directorate General Shipping of India and the GreenVoyage2050 Project Coordination Unit (PCU).

Refer to the **Terms of Reference (ToR)** for full details of the assignment.

Presentation of Proposal

Proposal should be submitted in line with section 12 of the ToR no later than 23/08/2021 and must include the following:

- **CV of each consultant (max. 2 pages each)**, outlining relevant professional experience, qualifications, and suitability for the assignment, as well as the contact details (email and telephone number) of the consultants and two (2) professional references who can certify competencies, professionalism, quality of writing, presentation and overall suitability to this ToR.
- **Brief description of approach to work/technical proposal** of why the individuals consider themselves as the most suitable candidates for the assignment, and a proposed methodology on how they will approach and complete the assignment; (max 1 page)
- **Financial Proposal** that indicates the all-inclusive fixed total contract price.

All application materials should be submitted by email to the address greenvoyage2050@imo.org indicating the following reference: **Ref. GV2050-001**

Queries about the assignment can be directed to greenvoyage2050@imo.org.

INTERNATIONAL MARITIME ORGANIZATION

TERMS OF REFERENCE

TEAM OF TWO NATIONAL CONSULTANTS TO SUPPORT DEVELOPMENT AND IMPLEMENTATION OF PILOT PROJECTS FOR LOW/ZERO CARBON SHIPPING IN INDIA

1 INTRODUCTION

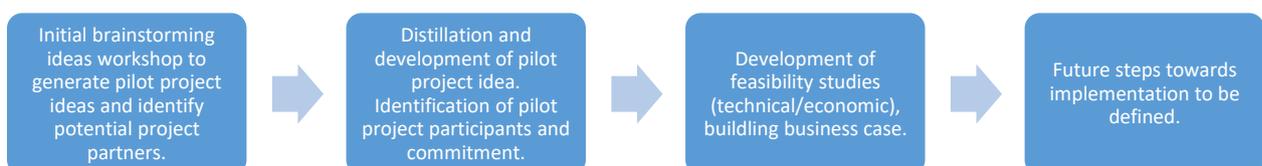
1.1 The IMO-Norway GreenVoyage2050 Project is an initiative to support shipping's transition towards a low carbon future. The project supports developing countries, including Small Island Developing States (SIDS) and Least Developed Countries (LDCs), to reduce Greenhouse Gas (GHG) emissions from shipping through supporting effective implementation of key IMO policy documents relating to GHG emissions, namely, the *Initial IMO Strategy on reduction of GHG emissions from ships* (Resolution MEPC.304(72)) (hereafter Initial Strategy) and Resolution MEPC.323(74) encouraging voluntary cooperation between the port and shipping sectors to contribute to reducing GHG emissions from ships.

1.2 The Initial Strategy envisages, in particular, a reduction in carbon intensity of international shipping (to reduce CO₂ emissions per transport work, as an average across international shipping, by at least 40% by 2030, pursuing efforts towards 70% by 2050, compared to 2008); and that total annual GHG emissions from international shipping should be reduced by at least 50% by 2050 compared to 2008.

1.3 It is recognized that achieving the high level of ambition set out in the Initial Strategy will require the introduction of new technologies, fuels and solutions. Pilot projects are an important mechanism in which these can be introduced and explored, and the experience gained through their implementation can support and catalyse the reduction of emissions from shipping.

1.4 As one of its primary goals, GreenVoyage2050 is supporting selected partnering countries in the identification of pilot project opportunities which can support the reduction of GHG emissions from shipping and develop these further through stakeholder engagement, initial assessments and feasibility etc.

1.5 In particular, the GreenVoyage2050 Project, in collaboration with the Green Shipping Programme of Norway, is supporting partnering countries in the development and implementation of pilot projects, by guiding them through the following process:



2 OBJECTIVES

2.1 The objective of this assignment is to drive national efforts, in line with the suggested steps above, and provide support to the development and potential implementation of pilot projects in India. It is expected that the team of two national consultants will be engaged on a longer-term basis and be involved throughout the pilot project inception phase, from pilot identification to project development. The consultants may also be engaged to support the implementation phase, subject to expected timeframe of implementation.

2.2 For this assignment, a pilot project is considered as the implementation of low / zero emission solutions for the maritime sector, and could involve e.g. ship retrofits and installation of energy efficiency technologies, building of full-electric and hybrid-electric ships, uptake of low or zero carbon fuels etc. It may also include shore-side developments such as infrastructure and upstream technologies to support uptake of alternative low- and zero carbon fuels. Pilot projects can explore emission reduction solutions already tested in the same, or a new segment. It could also demonstrate an innovative or new technology/solution. There should also be potential for upscaling and replication, so that successes can be catalysed and demonstrated elsewhere.

3 DUTIES OF THE TEAM OF CONSULTANTS

3.1 In close cooperation with the Directorate General of Shipping of India and the GreenVoyage2050 PCU, the team of two consultants will be **responsible for managing entire inception phase** of the pilot project work in India, including:

Task 1: Managing process of identification and development of bankable pilot projects in India

Pilot project identification

Support process of shortlisting of 2-3 scalable projects that have potential to be linked to a financing mechanism, including, inter alia:

- Undertake research to support initial development of ideas for pilot owners¹ and projects which could reduce GHG emissions from shipping;
- Liaise with authorities, public and private cargo owners and shipowners to identify and better understand needs, barriers and gaps which could potentially be addressed;
- Identification of potential cargo owners or ship/ferry owners who may have interest in becoming a pilot owner; and possibly realizing a pilot idea if an initial pilot study provides positive results; and identify other key stakeholders who may have interest in participating in a pilot study;
- Identification of potential service providers (technology providers) available to India;
- Gather information and undertake qualitative and quantitative analysis as appropriate (e.g. optimization analysis, analysis of fleet size, route pattern, cost and profitability analysis);
- Liaise with financing bodies who may have interest to provide funding;

¹ A pilot owner is a partner in the project with the intention to implement the pilot if the initial pilot study provides positive results, i.e., not too expensive and with environmental gains.

Pilot project analysis/feasibility

Develop, document, coordinate, and monitor development of minimum one bankable pilot project, including, inter alia:

- Assist in analyzing and evaluating **technology solutions** for pilot projects and their proposed approach for implementation, and in particular:
 - Prepare topic specific expert inputs on technology and support pilot project feasibility studies;
 - Be present in technical discussions if required and provide necessary country/technology specific information;
- Assist in analyzing the **policy, legal, and regulatory barriers** to development and deployment of pilot project, and in particular:
 - Undertake analysis of pilot project deployment in relation to legal and regulatory issues, summarize unique challenges and risks posed by the project, and identify measures needed to strengthen, safeguard and address related issues to mitigate risks;
 - Review policies, programs, and initiatives formulated and implemented internationally to promote, encourage, and accelerate technology demonstration and deployment and critically evaluate the roles assumed by various stakeholders, including governments, in these efforts;
 - If / where needed, support efforts to obtain necessary licenses and permits for deployment.
- Assist in identifying, assessing, and recommending appropriate **financial mechanisms** for development and deployment of the pilot project in India, and in particular:
 - Undertake analysis of the pilot project in relation to finance issues, summarize unique challenges and risks posed by the project, and identify measures needed to improve project bankability and address related issues to mitigate risks;
 - Review finance policies, programs, and initiatives formulated and implemented internationally to promote, encourage, and accelerate demonstration and deployment and critically evaluate the roles assumed by various stakeholders, including governments, in these initiatives;
 - Where needed, assist in preparation of draft procurement documents, review evaluation reports, draft contracts for goods and related services.

Stakeholder management

Collaborate with project partners and implementing organization(s) throughout the project inception phase, including, inter alia:

- **Organize and facilitate meetings** with relevant national and international stakeholders and interested parties with a view to scoping the pilot projects and coordinate efforts;
 - Participate and co-facilitate India National Stakeholder Meeting (September 2021, exact date TBC) with the aim to identifying pilot project opportunities and potential pilot owners.

Communication and results dissemination

Report on project progress, including, inter alia:

- Disseminating information with respect to project progress to relevant stakeholders;
- Share experience and showcase the pilot project, with a view to raising awareness and promoting development and implementation of future projects.

Task 2: Mapping of low/zero carbon shipping finance opportunities in India, and on-going scalable projects in low/zero carbon shipping

Finance opportunities

- Facilitate dialogue with potential financiers for low/zero carbon shipping (public and private sector actors, e.g. development banks, international financial institutions, public funding initiatives etc.);
- Assess current landscape of funding sources for ongoing projects in India, including projects by NGOs, government, and international community;
- Assess barriers faced by India in accessing climate finance and challenges for scale-up;
- Develop list of innovative, viable financing ideas through consultation with local stakeholders, experts, and desk review;
- Make recommendations on how to strengthen capacity of stakeholders to access funding.

On-going scalable projects in low/zero carbon shipping

- Identify ongoing and planned (state-funded) projects
- Identify relevant stakeholders engaged in each project

3.2 It is expected that the duties set out in the tasks above will be coordinated accordingly between the two consultants. The following table outlines the expected role of each consultant.

Management/Business Development Consultant	Technical Consultant
This role aims to coordinate and lead the development of potential pilot projects in India.	This role will provide technical expertise and support the development of potential business cases for pilot projects.

3.3 The Consultants are expected to work closely together and in coordination with the National Focal Point and National Project Coordinator of the Directorate General of Shipping of India and the GreenVoyage2050 PCU and should provide regular updates on project progress.

3.4 The Consultants shall report to Ms. Astrid Dispert, Project Technical Manager, Department of Partnerships and Projects, IMO.

4 EXPECTED OUTPUTS AND DELIVERABLES

#.	Deliverables/ Outputs	Estimated completion days	Target Dates	Due
D-1	An inception report (max 2 pages) detailing work plan, timeline, mode of engagement with partners, a list of national government institutions, private sector and other stakeholders to be consulted.	5	Q3 2021, Date TBD	

D-2	Project identification and scoping: <ul style="list-style-type: none"> • Identification of 2-3 scalable pilot projects that have potential to be linked to a financing mechanism • Project implementation plan for one selected bankable project and corresponding financing mechanism 	10	Q4 2021, Date TBD
D-3	Coordination and monitoring throughout pilot project identification and development phase	35	Throughout
D-4	Mapping report (10 pages max) on current finance opportunities and ongoing scalable projects in low/zero-carbon shipping (refer to Task 2)	10	Q1 2022, Date TBD
D-5	Support preparation of launch of pilot project including facilitation of any necessary MOU, LOA, grants, or any other contractual agreements with financing stakeholders, implementing organizations, etc.	10	Q1 2022, Date TBD
D-6	Presentation to relevant stakeholders on barriers for financing and interim results of Pilot project	5	Q1 2022, Date TBD
D-7	Final project report (10 pages max) on the implementation of pilot projects in India, including: <ul style="list-style-type: none"> • Any relevant meeting notes (including list of participants) • Outcome of any research undertaken • Relevant contacts • Main challenges faced and lessons learned (e.g. in identifying pilot project opportunities, identifying and connecting with relevant stakeholders, data and information gaps etc.) • Recommendations on how pilot projects can be catalyzed in the future (including guidance or tools which would have been useful) • Any other relevant information 	5	March 2021 Date TBD
	TOTAL	80 working days	

5 DESIGN, FORMAT AND LANGUAGE

5.1 All documents resulting from this assignment shall be drafted in English and using templates provided by the GreenVoyage2050 PCU. To the extent possible, clear/plain language and tables must be used so it is easy for non-specialised audience to understand the information.

6 REQUIREMENTS REGARDING MATERIAL PRODUCED

6.1 Background material, information and other documents (such as notes, text, graphics, surveys, raw data, spreadsheets and records of discussions) shall be made available to the PCU.

6.2 All rights, including title, copyright and patent rights, in any work produced by the Consultants for this Assignment, shall be vested in IMO, which alone shall hold all rights of use. Where necessary, adequate authorisation shall be secured for any third-party materials included in the documents and reports. For IMO's records the Consultant must provide separate supporting document (in any suitable format) outlining all the obtained copyrights (for non-commercial use), required credit and contact details of the source for each externally obtained visual (infographic, photo, graphic and similar).

7 COMMUNICATION

7.1 Regular feedback (every two weeks as feasible) through email, and/or video or phone calls must be maintained between the team of consultants, the Directorate General of Shipping of India, and the PCU during the completion of this Assignment.

8 WORK LOCATION

8.1 All work will be performed from the consultants' place of business. All eventual meetings with the Directorate General of Shipping of India, the PCU and any other relevant person or other IMO staff will be conducted by conference call.

8.2 Subject to developments related to COVID-19, travel may be required to participate in national meetings. In this latter case, travel arrangements and costs related to the meeting shall be borne by the GreenVoyage2050 Project.

9 TEAM OF CONSULTANTS PROFILE

9.1 MANAGEMENT/BUSINESS DEVELOPMENT CONSULTANT

<p>Personal Qualities (must have)</p> <p>Must be proactive, forward-leaning, and with a result-oriented mindset. The candidate should have an extensive network, both in the political sphere and in the industry. Within the network, the candidate must be able to create enthusiasm and to motivate the other stakeholders to collaborate in achieving the ambitions of the GreenVoyage2050 project. In addition, the candidate must be based in India and have comprehensive understanding of local conditions.</p> <p>Education and Experience</p> <p>University degree OR equivalent training/experience in relevant discipline, such as Maritime Transport, (Marine) Engineering, Transport, Environmental Sciences, Economics, Development Studies, International Development, Political Sciences, or other closely related field</p> <p>The candidate should have more than ten years' experience within business development, management or technical consultancy (maritime), and marketing and sales, preferably within both public and private sector.</p> <p>Qualifications</p> <ul style="list-style-type: none">• Experience in partnerships and stakeholder management<ul style="list-style-type: none">○ Experience in working in or supporting local government, carrying out a wide range of stakeholder or industry consultation activities○ Excellent coordination skills
--

- Able to work both individually and in teams
- Pro-active, commercial mind-set: self-driven, creative, sociable, result-oriented and quality focused
- **Expertise in maritime transport and low-carbon shipping**
 - Knowledge of the transport/energy sectors, ideally with focus on maritime transport
 - Knowledge and interest on sustainable transport/low-carbon transport
- **Experience with complex technology and policy projects (desirable)**
 - Project management experience, including handling of newbuilding projects
 - Experience in green projects, shipping/ship management, project management, maritime industry in general, public administration

9.2 TECHNICAL CONSULTANT

Personal Qualities

Must have strong analytical skills and understanding of technical and economic concepts. In addition, the candidate must be based in India and have comprehensive understanding of local conditions.

Education

University degree OR equivalent training/experience in relevant discipline, such as Maritime Transport, (Marine) Engineering, Transport, Environmental Sciences, Economics, Development Studies, International Development, Political Sciences, or other closely related field

Qualifications

- **Experience in developing and evaluating business models**
 - Experience with business development
 - Experience developing and evaluating business models for new products or services for the transport sector would be an asset
 - Experience in providing technical and strategic advice to clients looking to sustainable transport solutions would be an asset
- **Expertise in maritime transport and low-carbon shipping**
 - Strong knowledge of the transport/energy sectors, ideally with focus on maritime transport
 - Strong knowledge and interest on sustainable transport/low-carbon transport
- **Analytic capacity and ability to synthesize relevant collected data and findings**
 - Experience in information collection, quantitative and qualitative analysis
 - Experience in undertaking research/examining future trends/emerging technologies for the transport sector would be an asset
 - Ability to present technically challenging data in verbal and written form
 - Strong IT skills – Microsoft Office (Excel in particular)

10 LANGUAGE REQUIREMENTS FOR BOTH CONSULTANTS:

10.1 Fluency in English with excellent written communication skills, and strong experience writing reports is required.

11 TENTATIVE ASSIGNMENT START AND END DATE

Start: September 2021

End: April 2022

12 APPLICATION PROCESS

12.1 Recommended Presentation of Proposal:

- **CV of each consultant (max. 2 pages each)**, outlining relevant professional experience, qualifications, and suitability for the assignment, as well as the contact details (email and telephone number) of the consultants and two (2) professional references who can certify competencies, professionalism, quality of writing, presentation and overall suitability to this ToR.
- **Brief description of approach to work/technical proposal** of why the individuals consider themselves as the most suitable candidates for the assignment, and a proposed methodology on how they will approach and complete the assignment; (max 1 page)
- **Financial Proposal** that indicates the all-inclusive fixed total contract price.

12.2 All application materials should be submitted by email to the address greenvoyage2050@imo.org indicating the following reference: Ref. GV2050-001

12.3 If further information is required, a follow-up meeting may be scheduled by the GreenVoyage2050 PCU.

12.4 **Criteria for Evaluation of Proposal:** Only those applications which are responsive and compliant will be evaluated. Offers will be evaluated according to the Combined Scoring method – where the educational background and experience on similar assignments will be weighted at 70% and the price proposal will weigh as 30% of the total scoring. The team of applicants receiving the Highest Combined Score will be awarded the contract, subject to acceptance of IMO's General Terms and Conditions.
