

**Application Document for Prequalification of engineering, procurement and construction (EPC) contractor for International Port Development Project at K.Gulhifalhu in Republic of Maldives**

**Addendum No. I (Date: 15/10/2020) Ref No: GOILOC-309/Maldives /EPC-59**

**Modification of the (i) Scope of Work, (ii) Application submission deadline, (iii) General Experience, (iv) Specific Experience and (v) Skilled Human Resources criteria of the Application Document. The below mentioned references are replaced as following**

**(i) Scope of EPC :**

**[B] Description of the Works**

The scope of the work for the contract is to design and construction for the new port located at Gulhifalhu. The total project area covers approximately 46 ha. The port will be divided in six different areas

- Main administration area
- Container terminal
- General cargo terminal
- Port service quay
- Bonded warehouse
- Domestic quay

At present the Gulhifalhu Island is a reef where a small part has been reclaimed. The reclamation works required to expand the land space of the island including construction of revetments and dredging of an access channel to an inner harbour basin are due to be performed under a separate contract prior to this contract. However, there are anticipated to be smaller volumes of reclamation and dredging works required for the Port Main Components Contract to complete the quay structures with their associated berths and to tie them into the works already completed. Compaction works to the already reclaimed fill will also be required. During the construction of quays and other marine infrastructures the contractor is required to engage experienced staff in similar environments and utilize appropriate methodologies accepted by the Employer for dredging, reclamation, piling and other works as required in carrying out works on the coral reefs and in handling of coral reef soil materials. The contractor is also required to take into consideration, environmental issues which may arise during the construction and take necessary preventive measures.

The scope of the main works for the contract can be summarised to the following. All design and construction based on the Employer's Requirements in the contract (including supply and installation of materials and provision of necessary labour), are included.

- Design, supply of materials and construction of quay structures complete

with coping, quay furniture including (but not limited to) bollards and fenders and gantry runways if required as part of the quay design. The project consist of a container quay with a length of 610 m and a water depth of 16.7 m MSL located on the outside of the island. In the lagoon a quay with a length of appr. 1900 m and a water depth of 5.7 m MSL will be constructed for general cargo, domestic transport, port service vessels and restricted cargo.

- Dredging in front of the container quay, placement of materials suitable for reclamation fill to the required shapes, levels and profiles to construct berth pockets and fill behind quay structures.
- Reclamation of port services area to the required shape and levels using sand which is to be provided by others (sand will be stockpiled by the reclamation contractor and does not form part of this Contract).
- Provision of navigation beacons to mark the access channel to the basin.
- Compaction of all of the fill, including that in the reclamation constructed under a separate reclamation contract.
- Design, supply of materials and construction of revetments required to tie the newly constructed quay structures in to the revetments constructed by others as part of a separate contract.
- Design and construction of paved areas including (but not limited to) roadways, container stacking areas, general cargo storage areas and quay aprons.
- Provision of rail mounted Ship to Shore (STS) gantry cranes together with design and construction of any supporting structures necessary to maintain the crane rails within the manufacturer's tolerances for both operating conditions and survivability criteria in extreme conditions.
- Provision of mobile cargo handling plant.
- Design and construction of a firefighting system network within the port area, including but not limited to the yard areas, administrative buildings, workshops, warehouses, including saltwater pumping facilities(where applicable), freshwater pumping facilities, fire mains and hydrants.
- Design and construction of a potable water supply system which is to be fed from a desalination plant which is to be provided by others and does not form part of this Contract.
- Design and construction of a stormwater runoff drainage system for drainage of paved areas including sea outfalls with flapper valves.
- Design and construction of a foul water sewerage system from all buildings and facilities to take the sewage to a sewage treatment plant which is to be provided by others and does not form part of this Contract.
- Design and construction of a lighting and electrical power supply system for the port area. This also includes design and delivery of emergency backup generator set to supply emergency power to the critical function within the port.
- Provision of fencing and gate systems for controlled entry and exit to the port area and the associated terminals.
- Establishing, constructing and subsequently removing all necessary temporary works.
- Survey and compliance testing in relation to the Works.
- Design and build of an main administration building. 7 stories with a footprint of 1,000 m<sup>2</sup>
- Design and build of an administration building for the container terminal. 2 stories building with a footprint of 800 m<sup>2</sup>
- Design and build of CFS facility for the container terminal. Footprint of

- 2,400 m<sup>2</sup>
- Design and build warehouse for the general cargo handling including a temperature controlled warehouses and a regular warehouse – each with a footprint of 800 m<sup>2</sup>
- Design and build of an administration and welfare facility for the general cargo terminal. Footprint of 600 m<sup>2</sup>
- Design and build of a port facilities building for the port service are. Footprint of 675 m<sup>2</sup>
- Design and build of Bonded Warehouse. 4 stories with a footprint of 4,000 m<sup>2</sup>
- Design and build of other facilities such as welfare facilities, workshop and stores, fuels stores, x-ray facility, weigh bridge and fire depot
- Design, supply and installation of ICT Backbone infrastructure, including termination and construction of ICT cabling and duct system
- Design, supply and installation of CCTV Surveillance System and Access Control Systems
- Provision of Port Equipment (Reach Stackers, RTGs, Prime Movers, Forklift, etc.)
- Supply of port equipment such as:
  - Rail Mounted Ship to Shore (STS) Cranes (3 nos)
  - Mobile Harbour Cranes
  - Rubber Tyred Gantry Cranes
  - Terminal Tractor units
  - Trailer units
  - Reach Stackers
  - Empty container handlers
  - Forklift vehicles
  - Staff Vehicles
  - Mobile maintenance unit
- The contractor is required to handle the coral reef soil materials and the environmental issues in accordance of the applicable laws in Maldives.

## (ii) Application submission Deadline

Completed Applications (off-line) in accordance with the provisions of the Application Document along with NEFT acknowledgement receipt should be delivered physically by 15:00 hours, November 2, 2020 at the following address:

Mr. Ashok Kumar Vartia  
 Deputy General Manager  
 Export-Import Bank of India  
 Office Block, Tower 1  
 7<sup>th</sup> Floor, Adjacent Ring Road  
 Kidwai Nagar [East]  
 New Delhi -110023  
 E-mail: [eximloc@eximbankindia.in](mailto:eximloc@eximbankindia.in)  
 Website: [www.eximbankindia.in](http://www.eximbankindia.in)

<b>ITA 16.1</b>	<p>Submission of Application is required in <b>dual mode i.e. on-line as well as off-line</b> as mentioned in ITA 10.1(d).</p> <p><b>The deadline for Application submission is:</b></p>
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	<p>Date: November 2, 2020</p> <p>Time: 15:00 hrs</p> <p>For <b>application submission purposes only</b>, the Bank's address is:</p> <p>Bank's address is the same as that indicated in ITA 2.1</p> <p><i>Attention: Mr. Ashok kumar Vartia , Deputy General Manager</i></p>
<b>ITA 18.1</b>	<p>The opening of the Applications shall be at the Bank's address as that indicated in ITA 2.1</p> <p><b>Date:</b> November 2, 2020</p> <p><b>Time: 15:30 hrs</b></p>

**(iii) General Experience – Requirement:**

<b>D.1 General Experience</b>	
Requirement:	<ul style="list-style-type: none"> <li>➤ Experience in Design Engineering and Construction/ Construction/ EPC contracts relating to container/ General Cargo port projects in the role of prime contractor or JV member to the main client, in India during the last ten (10) years, starting from <b>September 1, 2010 and up to application submission deadline</b>. (In case of JV, each member shall meet the requirement).</li> <li>➤ Documentation and Attachments to be submitted as mentioned below.</li> </ul>

**(iv) Specific Experience – Requirement:**

D.2 Specific Experience Requirement:	1. (A ) At least the number and value of similar EPC/ construction contracts of deep water container/General Cargo port projects/terminals, (with water depth at the quay side no less than 13 meters) as mentioned below, in the role of prime contractor or JV member <sup>1</sup> to the main client/project employer, completed between September 1, 2010 and application submission deadline:		
		No. of Contracts	Value of Each Contract (USD Million)
	Option I	3	USD 72 million
	OR		
	Option II	2	USD 91 million

<sup>1</sup> Experience shall be considered on basis of scope of work of the Applicant in that JV for the contract under reference.

OR		
Option III	1	USD 145 million

**1. (B). At least the number and value of similar EPC/ construction contracts of Civil construction for warehouse/ Building/ Workshops/ Airport/ Stadium/Industrial parks, SEZs etc. of similar nature as mentioned below, in the role of prime contractor or JV member<sup>2</sup> to the main client/project employer, completed between September 1, 2010 and application submission deadline:**

	<b>No. of Contracts</b>	<b>Value of Each Contract (USD Million)</b>
Option I	3	USD 53 million
OR		
Option II	2	USD 65 million
OR		
Option III	1	USD 105 million

**2. The EPC/construction contractor shall demonstrate experience involving all of the following (a) through (f), under any of the above or additional contracts during September 1, 2005 and application submission deadline :**

- a) Marine Pile Driving with a pile length of minimum 20 m
- b) Heavy duty paving designed for movement of heavy vehicles.
- c) Construction of multi-story buildings of net total floor area 35,000 m<sup>2</sup> in maximum three contracts.
- d) Construction of quay walls of length no less than 500m and water depth at the quay side no less than 13 m.
- e) Experience with open water marine construction (i.e. construction site exposed to tidal waves)
- f) Experience in dredging of coral or rock to a minimum 13m water depth

**3. The Applicant shall submit the completion certificate of the projects, as document of proof for completion of the similar nature of work and mention the date and cost of completion of the work.**

**4. In case of JVCA, the requirement shall be met as below:**

- a) Eligibility in terms of Contract Value shall be met by each of the JVCA member, and cannot be aggregated.
- b) On meeting the Contract Value criterion by each member of the JVCA, their past experience in terms of the number of contract(s)

<sup>2</sup>Experience shall be considered on basis of scope of work of the Applicant in that JV for the contract under reference.

	<p>executed may be considered on combined basis for meeting the criterion on number of contracts.</p> <p>In addition to the above, each member of JVCA shall demonstrate experience of at least one contract of 50% of the value indicated under Option I above at clause 1 A or 1 B, demonstrating experience similar to at least one of the technical aspects listed in 2.2 (a) to (f) above.</p> <p>5. Subcontractors' experience and resumes, if any, submitted with the application will not be taken into account in determining the Applicant's compliance.</p> <p>6. For supply of equipment, the Applicant may be actual manufacturer (ISO or equivalent standard) or shall provide an undertaking to submit an authorisation certificate from the manufacturer during the bidding stage in case the Applicant is pre-qualified.</p> <p>7. Documentation and Attachments to be submitted as mentioned below.</p>
<b>D.3 Specific Experience - Designer</b>	<p><u>Requirement:</u></p> <p>The Designer(s) shall have detailed design experience , on:</p> <ul style="list-style-type: none"> <li>i) at least 3 complete container ports with a quay length no less than 500m and water depth at the quay side no less than 13 m</li> <li>ii) office buildings, industrial parks, SEZs, and warehouses with total floor area not less than 5,000 m<sup>2</sup></li> <li>iii) at least 3 marine projects in fragile marine environment (coral reefs)</li> <li>iv) Experience with coral reef soil materials, including environmental issues.</li> <li>v) At least three dredging and reclamation project in the sea, creek, estuary or delta <ul style="list-style-type: none"> <li>a. In minimum 13m water depth for dredging of reef or similar rock formation and</li> <li>b. In minimum 3m water depth for reclamation (measured from mean sea level) of minimum 50,000 cu.m of fill.</li> </ul> </li> </ul> <p>The construction of these projects shall have been completed between September 1, 2010 and application submission deadline. The applicant is required to provide the name (s) (maximum three) designers meeting above mentioned requirements at time of prequalification stage. The applicant should submit undertaking that the designer (s) meets the above mentioned requirement.</p> <p>The applicant shall have to appoint any one of the three designers only in case the contract is awarded to the pre-qualified contractor and the qualification of designer will be evaluated at time of bidding stage in case the Applicant is pre-qualified.</p> <p>Prior to the submission on bids, the Applicant has the option to propose the designer(s) apart from the designer (s) proposed at pre-qualification stage,</p>

	subject to approval of Government of Maldives and the proposed designer (s) meets the qualification requirements.
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(v) Skilled Human Resources

E.3 Skilled Human Resources					
Requirement:	Applicant must demonstrate that it can deploy the personnel for the key positions that meet the following requirements:				
	No.	Position	No s	Qualificatio n	Total Minimu m Work Experie nce (years) Experience in similar work (years)
	01	General Project Manager	1	University degree in civil or structural engineerin g discipline	20 >15 year of experience in similar works with Experience from 5 relevant projects >5 years as the main contractor's project manager/site agent on site with overall responsibilities for international port construction projects;
	02	Site Manager	2	University degree in civil or structural engineerin g discipline	15 >10 years as the port site manager (or equivalent) for Marine construction works
	03	Discipline managers for Project Management			
	3.1	Marine works	1	University degree in Marine Engineerin g discipline	15 >3 years as the lead Marine Engineer (or equivalent) for port construction works
	3.2	Road Engineer	1	University degree in Highway Engineerin g or Civil Engineerin g discipline	15 >5 years as a Lead Road Engineer (or equivalent)

	3.3	Coastal Engineer	1	University degree in Coastal Engineering discipline	15	>5 years as a Lead Coastal Engineer (or equivalent) Experience in at least 3 marine projects in coral reefs
	3.4	Civil Engineer	1	University degree in civil or structural engineering discipline	15	>5 years as the Lead Civil Engineer/Site Manager (or equivalent) in port construction works. Experience in at least 3 marine projects in coral reefs
	3.5	Architect	2	University degree in Architectural discipline	15	>5 years as the Lead Architect (or equivalent) in port construction works
	3.6	Geotechnical Engineer	1	University degree in civil or geotechnical engineering discipline	15	>5 years as the Lead Geotechnical Engineer (or equivalent) in port construction works. Experience in at least 3 marine projects in coral reefs
	3.7	Services Engineer	2	University degree in Services Engineering or related discipline	15	>5 years as the Lead Services Engineer (or equivalent) in port construction works.
	04	Design Team Leader (of Designer)	1	University degree in civil or structural engineering discipline; Chartered Engineer of the Institution	20	At least 5 years of experience as the design team leader with overall responsibilities for detailed design in large scale civil engineering projects. his/her experience shall satisfy all the requirements stated



				of Engineers India (IEI) or equivalent		under criteria D.3 (i), D.3 (ii) and D.3 (iii) above
	5	Discipline managers for Design works				
	5.1	Marine works	1	University degree in Marine Engineering discipline	15	At least 5 years of experience as the leader for detailed design in large scale port construction projects. his/her experience shall satisfy all the requirements stated under criteria D.3 (i)
	5.2	Road Engineer	1	University degree in Highway Engineering or Civil Engineering discipline	15	At least 5 years of experience as the lead Road Engineer for detailed design in large scale road construction projects. his/her experience shall satisfy all the requirements stated under criteria D.3 (i)
	5.3	Structural Engineer	1	University degree in civil or structural engineering discipline	15	At least 5 years of experience as the lead Structural Engineer for detailed design in large scale port construction projects. his/her experience shall satisfy all the requirements stated under criteria D.3 (i) ,D.3 (ii) and D.3 (iv)
	5.4	Coastal Engineer	1	University degree in Coastal	15	At least 5 years of experience as the lead Coastal

				engineerin g discipline		Engineer for detailed design in large scale port construction projects. his/her experience shall satisfy all the requirements stated under criteria D.3 (v)
	5.5	Architect	1	University degree in Architectural discipline	15	At least 5 years of experience as the lead Architect for detailed design in large scale port construction projects. his/her experience shall satisfy all the requirements stated under criteria D.3 (ii)
	5.6	Geotechnical Engineer	1	University degree in geotechnical or civil engineering discipline	20	At least 5 years of experience as the lead Geotechnical Engineer for detailed design in large scale port construction projects. his/her experience shall satisfy all the requirements stated under criteria D.3 (iii) and D.3 (iv)
	5.7	Services Engineer	1	University degree in Services Engineering discipline or related field	15	At least 5 years of experience as the lead Services Engineer for detailed design in large scale construction projects. his/her experience shall satisfy all the requirements stated under criteria D.3 (ii)
Documentation to be submitted:	Form E. 3.1					

**Attachments to be submitted:**

- The applicant is required to submit an undertaking to engage and deploy personnel as above

Any questions or clarifications on the above may be addressed to:

Mr. Ashok Kumar Vartia  
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E-mail: [eximloc@eximbankindia.in](mailto:eximloc@eximbankindia.in)