

**Biman Bangladesh Airlines**  
**Engineering & Material Management Directorate**

**Name of Tender : Selection of Agency for Overhaul and  
Loan/Exchange of Boeing 777-300ER Landing Gears**

**Part 1 - Technical Offer**

## **01. Introduction :**

Biman Bangladesh Airlines is operating 04 (four) Boeing 777-300ER Aircraft with average daily utilization of 12.89 FH and 2.7 landings. With this current utilization, overhaul life of two 777-300ER Aircraft landing gear shipset (2 MLG & 1 NLG) shall expire during 3<sup>rd</sup> – 4<sup>th</sup> quarter of 2021, and the remaining two Aircraft landing gear shipset shall be due in early 2024. Details of all 4 shipset Landing Gears are as follows:

Aircraft MSN	Shipset Part Number	CSN/CSO	EIS	Next due	Max Taxi Weight
40122	LH MLG 161W2100-7,	7718	30-09-2011	29-09-2021	777,000
40123	RH MLG 161W2100-8	7526	17-10-2011	16-10-2021	777,000
40120	and	5676	09-01-2014	08-01-2024	777,000
40121	NLG 162W1100-13-13	5504	03-03-2014	02-03-2024	777,000

*\* Data provided above as of date 31-01-2020 \*\* Average monthly fleet utilization for 777-300ER is 380 Hrs & 75 Cycles.*

Biman hereby invites offer from (a) OEM or (b) approved Landing Gear MRO having proven capability and experience on overhaul of 777-300ER landing gears and capability to provide landing gear shipset on loan/exchange basis for the above-mentioned Aircraft. The tender offer may propose either or both of the following:

- (i) 4 shipsets of Landing Gear Overhaul with loaner shipset support.
- (ii) 4 shipsets of Landing Gear Overhaul with exchange shipset support.

Tender offer must be submitted in two separate envelopes.

1<sup>st</sup> envelope will contain the relevant documents as per the requirements of this Tender Schedule, Part 1 - Technical Offer. Please paste one label “**Technical Offer**” on top of the 1<sup>st</sup> envelope.

2<sup>nd</sup> envelope will contain the relevant documents as per Tender Schedule, Part 2 - Financial Offer. Please paste one label “**Financial Offer**” on top of the 2<sup>nd</sup> envelope.

### **Tender offer submission procedure:**

- (a) Offer may be sent by Courier to the Office of Director Engineering and Material Management, Biman Engineering Hangar Complex, HSIA, Dhaka-1229, Bangladesh or
- (b) Offer may also be submitted in the Tender Box that will be placed only at Biman Engg. Hangar Gate # 8, HSIA, Dhaka on 15-04-2020 in two different envelopes separately mentioning (i) Technical Offer & (ii) Financial Offer.
- (c) Offer may also be sent through email to the following two different email addresses:
  - (i) Technical offer to : [777lgtechoffer2020@bdbiman.com](mailto:777lgtechoffer2020@bdbiman.com)
  - (ii) Financial offer to : [777lgfinanoffer2020@bdbiman.com](mailto:777lgfinanoffer2020@bdbiman.com)

## **02. Tenderer Qualifications (Mandatory):**

The Tenderer shall provide following Information/ Technical Documents and must agree with the following terms and conditions:

- (a) Tenderer must be either (a) OEM or (b) approved Landing Gear MRO and must have the following:
  - (1) Capability of in-house repair and overhaul of B777-300ER Landing Gears having Certificate of Approval(s) from:
    - (i) FAA or EASA and
    - (ii) Respective National Airworthiness Authority (NAA).

(2) The Tenderer must agree to obtain CAAB (Civil Aviation Authority of Bangladesh) approval and also comply with all Applicable Directive(s) / instruction(s) issued by the Civil Aviation Authority of Bangladesh (CAAB).

(b) Tenderer must have minimum five years period of general experience in landing gear overhaul. Tenderer must have an experience of Overhauling at least 10 (Ten) 777-300ER Landing Gear Shipsets. Proven experience of overhauling at least 04 (Four) 777-300ER Landing Gear Shipsets over last three years (July 2016 to June 2019 inclusive) is a must, and Tenderer shall provide landing gear serial numbers in tender offer.

(c) A Tender submitted by MRO Joint Venture, Consortium or Association is not acceptable.

(d) Any discussion/ negotiation will be done directly with the Tenderer MRO. Biman will not deal with any Agent/Broker during the process of evaluation and finalization of the proposal or agreement.

**03. Tender Mandatory requirements**

Tender requirement	Tenderer Response and Sign
(a) The Intended Completion Days per Shop Visit : Each Landing Gear Shipset Shop-in to Shop-out Turn-Around-Time (TAT) shall not be more than 90 (Ninety) calendar days, lower preferable. The TAT and its term and condition(s) shall clearly be specified in the offer and draft agreement. This clause is not applicable for exchange landing gear offer.	<input type="checkbox"/> Agreed <input type="checkbox"/> Not agreed Sign_____
(b) Warranty periods shall be minimum of 36 (thirty six) months and 4000 Cycles, whichever later. The Tenderer must also warrant their subcontractor's work.	<input type="checkbox"/> Agreed <input type="checkbox"/> Not agreed Sign_____
(c) The workscoping of landing gears during overhaul will be carried out jointly by Biman representative and Tenderer's engineering personnel in reference to the applicable CMM and any valid approved document. Biman will maintain control of landing gear 'workscape' requirements at all times and will have the right to change workscape during early stages of shop visit.	<input type="checkbox"/> Agreed <input type="checkbox"/> Not agreed Sign_____
(d) A list of all AD's and SB's with applicability/ compliance data applicable to landing gear shall be provided in the shop visit report. Electronic copy of landing gear shop visit report along with 1 (one) hardcopies should be provided after landing gear shop visit or exchanged landing gears received by Biman.	<input type="checkbox"/> Agreed <input type="checkbox"/> Not agreed Sign_____
(e) All Used Serviceable Parts (including LLPs, LRUs etc.) installed in Biman landing gears by Tenderer shall have proper documents and traceability, back to birth history and all such parts should be in good operating condition, be of the same (or better) value and utility, must not have been involved in an incident or accident, must not have been installed on an aircraft registered on a military aircraft register and be of the same or a more advanced OEM configuration status.	<input type="checkbox"/> Agreed <input type="checkbox"/> Not agreed Sign_____
(f) The Tender validity period shall be 120 days minimum. Biman may request further validity extension, if needed.	<input type="checkbox"/> Agreed <input type="checkbox"/> Not agreed Sign_____

**04. Other Tender Requirements:**

The Tenderer should agree and provide response to following requirements:

<b>Tender requirement</b>	<b>Tenderer Response and Sign</b>
(a) The Tenderer should agree to undertake any warranty claim(s)/ issue(s) with Manufacturer/ subcontractor on behalf of Biman.	<input type="checkbox"/> <b>Agreed</b> <input type="checkbox"/> <b>Not agreed</b> <b>Sign</b> _____
(b) Overhaul/Repair and test capability list to be submitted along with the offer.	<input type="checkbox"/> <b>Agreed</b> <input type="checkbox"/> <b>Not agreed</b> <b>Sign</b> _____
(c) Landing gears to be checked at receipt and dispatch time. A list of missing items must be made at Shop-in & Shop-out, should be reported within 10 days after landing gear induction and such list shall accompany the landing gear documentation at delivery.	<input type="checkbox"/> <b>Agreed</b> <input type="checkbox"/> <b>Not agreed</b> <b>Sign</b> _____
(d) (i) The Tenderer should have an independent Quality Assurance program that monitors compliance with applicable airworthiness regulations, requirements and their own maintenance procedure manual. Such program shall also address the specific requirement of the customer's Quality Assurance program as detailed in customer's Maintenance Control Manual. Tenderer must agree to comply applicable clauses of Biman Quality Assurance Audit Checklist. (ii)Tenderer must ensure and provide Certificate annually that their personnel are trained on SMS and is implemented in Organization culture.	<input type="checkbox"/> <b>Agreed</b> <input type="checkbox"/> <b>Not agreed</b> <b>Sign</b> _____
(e) Use of PMA part, Non – OEM repair, and DER repairs are not allowed for installation on Biman & exchanged landing gears. However, any specific cost effective DER repair may be discussed, and approved by Biman prior implementation.	<input type="checkbox"/> <b>Agreed</b> <input type="checkbox"/> <b>Not agreed</b> <b>Sign</b> _____
(f) All disassembly, assembly, repair, Overhaul, inspection, cleaning, testing, modification, alteration, or any other process, technique required during landing gear shop visit must be up to the manufacturer's approved repair standard and must comply with regulatory requirement. Approval from Boeing shall be arranged for repairs not covered within applicable Repair Manuals and prior concurrence from Biman must be made before incorporation of the same.	<input type="checkbox"/> <b>Agreed</b> <input type="checkbox"/> <b>Not agreed</b> <b>Sign</b> _____
(g) Parts to be scrapped during any landing gear shop visit should be held for an agreed period of time to allow inspection by Biman.	<input type="checkbox"/> <b>Agreed</b> <input type="checkbox"/> <b>Not agreed</b> <b>Sign</b> _____
(h) Strip condition and detail inspection reports should be made available in a timely manner and be included in shop visit report. Strip reports shall include photographs and list of all replaced / reinstalled / scrapped items. Strip reports shall also be available for exchanged landing gears received by Biman.	<input type="checkbox"/> <b>Agreed</b> <input type="checkbox"/> <b>Not agreed</b> <b>Sign</b> _____
(i) Part number, serial number of exchange gears to be provided. Life of exchange landing gear shall not consume more than one calendar year life when the gears arrive at Dhaka.	<input type="checkbox"/> <b>Agreed</b> <input type="checkbox"/> <b>Not agreed</b> <b>Sign</b> _____

Tender requirement	Tenderer Response and Sign
(j) 12 months Preservation, Packaging, shipment and transportation requirements must be of Industry standard and acceptable to Biman. Necessary certification for preservation shall be provided.	<input type="checkbox"/> Agreed <input type="checkbox"/> Not agreed Sign_____
(k) The repair shop should respond to quality complaints formally and promptly.	<input type="checkbox"/> Agreed <input type="checkbox"/> Not agreed Sign_____

**05. Documents to be provided along with the Tender Offer :**

The Tenderer to submit with its Tender offer the following additional documents in English:

- (a) Copies of FAA or EASA approval and Certificate of Approval from local regulatory authority of the approved landing gear maintenance services organization are to be provided. (Mandatory)
- (b) Original tender offer must be submitted with signature and seal of tenderer in every page along with original copy of Tender documents.
- (c) List of overhauled landing gears with Serial Number during the period June 2016 to May 2019 (inclusive).
- (d) Technical Specification and Documents for the Offered Loan and/or Exchanged Landing Gear Ship Sets to be provided along with the offer/ tender proposal.

**06. Tender Evaluation Method:**

The following steps to be followed for evaluation of submitted tender:

- (a) Technical offer of tenderer will be evaluated first. Only the technically responsive tenderer's financial offer will be evaluated to determine the tenderer with lowest price.
- (b) If any technically responsive tenderer offers both loan and exchange landing gear options, only the option with lower price will be considered for evaluation.

**07. Items of MLG & NLG Assembly:**

The agency must consider the following items as MLG Assembly and NLG Assembly and so they are to be included for overhaul, loan, exchange quotation as in Annexure 1, Annexure 2 and Annexure 3:

Main Landing Gear (MLG) Assembly

- Main Landing Gear
- MLG Side Strut
- MLG Drag Strut
- MLG Reaction Link
- MLG Retraction Actuator

Nose Landing Gear (NLG) Assembly

Nose Landing Gear  
NLG Drag Strut  
NLG Retraction Actuator

**08. Clarification / further Information :**

For any further information/ clarification to the Tender, Tenderer is requested to contact with the following official:

Chief Engineer, Engineering Services  
Biman Bangladesh Airlines  
Email to : chiefengr@bdbiman.com  
Copy to : debiman@bdbiman.com