



MAZAGON DOCK SHIPBUILDERS LIMITED

(Formerly known as Mazagon Dock Ltd.)

CIN: U35100M

H1934GOI002079

(A Government of India Undertaking)

Dockyard Road, Mazgaon, Mumbai 400010. India.

Certified – ISO 9001:2008 for Shipbuilding Division

Website: www.mazagondock.in

EXPRESSION OF INTEREST (EOI)

Department : Planning Additional Project – East Yard
E-mail ID : gjadav@mazdock.com
Phone no. : 022 – 23763596
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EOI no. EOI : EY/PLG/AP/EOI-P&SS/0001
date : 5th, July 2022
EOI closing date & time : 14th, July 2022

Expression of Interest (Eoi)

**Design, Development and Supply of Propeller and Shafting System for
underwater platforms**

अंडरवाटर प्लेटफॉर्म के लिए" प्रोपेल्लर एवं शफ्टिंग सिस्टम का रूपांकन, विकास एवं
आपूर्ति"

LETTER OF INVITATION

Mazagon Dock Shipbuilders Limited (MDL) seeks response from companies meeting the requirements of this EOI for design, development and supply Propeller and Shafting system solution for underwater platform.

The participating firm should be in a position to design, engineer, manufacture, test and supply. The detailed terms and conditions shall be mutually agreed upon.

Firms shall be shortlisted based on the technical, commercial and financial evaluation as depicted in this EOI. Limited tender may be floated among the shortlisted firms.

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SECTION-1

DISCLAIMER

1. MDL, its employees and advisors make no representation or warranty and shall incur no liability under any law, statute, rules or regulations as to the accuracy, reliability or completeness of the EoI document.
2. MDL may, in its absolute discretion, but without being under any obligation to do so, modify, amend or supplement the information in this EoI document.
3. The issue of this EoI does not imply that MDL is bound to select and shortlist any or all the participating firm. Even after selection of suitable participating firm, MDL is not bound to proceed ahead with the participating firm and in no case be responsible or liable for any commercial and consequential liabilities in any manner whatsoever.
4. The participating firm shall bear all costs associated with the preparation, technical discussion/presentation and submission of EoI. MDL shall in no case be responsible or liable for these costs regardless of the conduct or outcome of the EoI process.
5. Canvassing in any form by the participating firm or by any other agency on their behalf shall lead to disqualification of their EoI.

SECTION-2**SCHEDULE OF EOI PROCESS & CONTACT DETAILS****A. SCHEDULE OF EOI PROCESS**

The schedule of activities during the Eoi Process shall be as follows -

Sl. No.	Description	Date
1	Issue of Eoi document	05 th July'2022
2	Last date of Submission of Eoi response	14 th July'2022

B. CONTACT DETAILS:**Submission of proposal:**

Proposal (**Original + one soft copy**) super scribing the enquiry number, enquiry subject, last date for receipt of EOI and shall be addressed to

Mr. Girish Jadav,
HoS/DGM (Additional Projects, Planning-EY),
4th Floor, Reclamation Building
Mazagon Dock Shipbuilders Limited, Dockyard
road, Mumbai 400010
E-Mail: gjadav@mazdock.com

All the correspondences shall be addressed to Mr. GirishJadav, DGM (Addl. Projects-EY) and following shall also be marked in cc:

i) Mr. Aritra Routh

Deputy Manager (Plg-EY)
E-Mail: aritrarouth@mazdock.com

ii) Mr. Sainath A Nashikkar

Deputy Manager (Plg-EY)
E-Mail: sanashikkar@mazdock.com

iii) Mr. Kapil Arora

Deputy Manager (Plg-EY)
E-Mail: karora@mazdock.com

SECTION – 3**DETAILS OF EXPRESSION OF INTEREST (EOI)****3.1. ABOUT MDL**

Mazagon Dock Shipbuilders Limited (MDL) is a leading submarine and shipbuilding company in the country with a Miniratna Category-1. The company was taken over by the Government of India and established as a Public Sector Undertaking under the Ministry of Defence in 1960. Over the last six decades, MDL has delivered over 250 warships/submarines/ platforms to various customers in India and abroad. Out of these 30 major warships/submarines have been delivered to the Indian Navy. The diversified platforms delivered to various customers range from Destroyers, Stealth Frigates, Submarines, Missile Boats, Corvettes, Offshore Patrol Vessels, Multipurpose Support Vessels, Offshore Supply Vessels, Dredgers, Tugs and Cargo-Cum-Passenger Vessels.

3.2. TECHNICAL REQUIREMENT**3.2.1. Aim**

To design, develop and supply PROPELLER AND SHAFTING SYSTEM solutions for underwater platforms.

3.2.2. Scope of Project

- 3.2.2.1. MDL is intending to partner with prospective Firms who can design, develop and produce PROPELLER AND SHAFTING SYSTEM solutions for underwater platforms. MDL seeks response from Indian firms to this 'Expression of Interest' (EOI) Notification.
- 3.2.2.2. The firm shall be shortlisted based on the scrutiny of their technical capability, experience in the domain and financial stability. Once the firm are shortlisted after the evaluation, limited tenders shall be floated for the Design, Development, production and testing of the prototype and Final product, amongst the shortlisted firm.
- 3.2.2.3. The selected Firm by MDL would be required to undertake the design/ development/manufacture of PROPELLER AND SHAFTING SYSTEM. Thereafter, this design will be required to undergo an exhaustive list of type tests. The PROPELLER AND SHAFTING SYSTEM shall consist off a minimum of the following list of equipment:
 - i. Fixed Pitch Single Screw Propeller
 - ii. Main Propulsion Shaft (Forged Steel with liner)
 - iii. FWD and AFT Collar Bearing
 - iv. Stern Gland & Required seals (Minimum 3 seals in the Stern Gland)
 - v. Removable Coupling
 - vi. Thrust Block (Ahead/Astern)
 - vii. Flexible Coupling

- 3.2.3. DESIGN PARAMETERS:** The firm must be capable of designing, manufacturing, testing and supplying a system of up to the below mentioned specifications at least to qualify in this EOI:
- i. Propeller up to 3m diameter
 - ii. Shafting system for under water platforms designed for deep water submergence as well as surface operation
 - iii. The exact design values will be shared only on successful acceptance of the firm's EOI reply by MDL, before the tender stage.
 - iv. The maximum thrust force required to design the system is envisaged to be in the range of 15-20 KN and maximum rotary speed will be 455 RPM.

- 3.2.4. DESIGN CONDITIONS:** The firm should be capable of designing and testing a System to operate satisfactorily in the following marine environment:

- i. **Submergence Pressure:** 30 bar
- ii. **Ambient air temperature range:** 0 to +55-degree C (surface)
- iii. **Sea water temperature range:** -10°C to + 40°C (Surface and Submergence)
- iv. **Sea State:** Sea State 3 (Surface)
- v. **Wind Speed:** 7 to 10 Knots (Surface)
- vi. **Shock Grade Requirement:** Shock load of upward acceleration at least 3g
- vii. **Shallow Water Conditions:** Design for operation in muddy waters with no damage to equipment (Surface and Submerged)

- 3.2.5. STANDARDS TO BE USED:** NES Standard (Other MIL/DEFSTAN standards if applicable)

3.2.6. OVERVIEW OF THE SCOPE OF WORK:

- a) The tasks required for completion of the scope of work shall be carried out in six phases as follows:

Phase	Product Description
I	Basic and detailed design of PROPELLER AND SHAFTING SYSTEM and its validation
II	Finalization & Approval of prototype design by MDL Team
III	Prototype development (At respective OEM facility)
IV	Type testing of the prototype (at designated labs)
V	Final Product development with respect to the approved design
VI	Installation, Testing and Trials on Platform

b) The details of the tasks to be carried out in the six phases are as follows:

TASK	TASK DESCRIPTION	COVERAGE AREAS	Deliverables
Phase I : Basic & Detailed Design of PROPELLER AND SHAFTING SYSTEM and its validation			
1	Design of Propeller	i. Finalization of Propeller design form based on basic inputs in the form of design coefficients and limiting parameters ii. Bill of materials(BOM) iii. Propeller Hub design iv. Propeller Blade thickness calculation	1. Detailed Calculation report 2. Material Selection and details 3. Numerical analysis (FEM) report for static and dynamic conditions 4. 3D Models. IGES/. STEP Format of propeller 5. Manufacturing and assembly drawings Propeller 6. Procedure for installation & alignment with backup calculation 7. Maintenance procedure
2	Design of Shaft System	i. Basic Design of system ii. Bill of materials(BOM) iii. Basic Schematics iv. Shaft Design	1. Detailed Calculation report 2. Material Selection and details 3. Numerical analysis report for static and dynamic conditions 4. 3D Models. IGES/. STEP Format of individual component 5. Individual manufacturing and assembly drawings of each component 6. Procedure for Shaft Installation, alignment with backup calculation 7. Maintenance procedure for the system
3	Design Testing/ Validation through Kinematic simulation	Design Testing/ Validation by kinematic simulation of Propeller and Shafting system along with hull model provided by MDL	1. Kinematic simulation in.mpeg format 2. Simulation file to be handed over in the native format
Phase II: Finalization & Approval of prototype design by MDL Team			
4	Finalization & Approval of prototype Design	Calculations and documents	All Design calculations, drawings and related documents
Phase III: PROTOTYPE DEVELOPMENT (AT RESPECTIVE OEM FACILITY)			

5	Fixed Pitch Propeller	Developing a prototype by OEM	1. Progress reports 2. Photographs of each part
	Fixed diameter solid shaft	Developing a prototype by OEM	
	Collar Bearing	Developing a prototype by OEM	
	Stern gland & required seals	Developing a prototype by OEM	
	Removable Coupling	Developing a prototype by OEM	
	Thrust Block(Ahead/Astern)	Developing a prototype by OEM	
	Flexible Coupling	Developing a prototype by OEM	
Phase IV: Type testing of the prototype (at designated labs)			
6	Type Test of prototype	Prototype testing of product as per Naval requirement through destructive/non-destructive test at designated labs by respective OEM	1. Lab reports of destructive/non-destructive test 2. Reports of rated characteristics of the equipment as assigned by the OEM
7	Final Prototype	All deficiencies to be made good in the type tested & the product in workable condition to be handed over to MDL by respective OEM	To be delivered as per the approved drawing and should be within tolerances
Phase V: Final Product development with respect to the approved design			
8	Final Product manufacturing	All deficiencies to be made good in the prototype tested. Final Product to be manufactured for delivery FATs to be conducted	To be delivered as per the approved drawing and should be within tolerances
Phase VI: Installation, Testing and Trials on Platform			
9	Delivery and commissioning	Delivery and Installation of Propeller and shaft at MDL Premises (MDL Scope)	Shipyards assistance by MDL
10	Tests and Trials	All inspections, tests, Harbour Trials of Platform and Sea Trials of Platform	Firm shall be responsible for conduct of all inspections, tests and trials till acceptance by MDL as per QAP

3.2.7. TASK LIST AND RESPONSIBILITY MATRIX:

The details of the tasks with responsibility assigned are given below:

Task No	Task Description	Responsibility		Deliverable format
		Firm	MDL	
PHASE-1				
1	Design of shaft system	Execute	Review & Comment	Document
2	Design of Propeller	Execute	Execute	Document
2	Design Testing/Validation through simulation (for applicable product)	Execute	Review & Comment	Document
PHASE-2				
3	Design development of hardware	Execute	Review & Comment	Document/Drawing
4	Building of a Prototype	Execute	Review & Comment	Document/Drawings
PHASE-3				
5	Type Test of prototype	Execute	Assist	Trial Documents & Reports
6	Final Prototype	Execute	Review & Accept	Product
PHASE-4				
7	Finalization & Approval of prototype	Execute	Review & Accept	Product
PHASE-5				
8	Final Product	Execute	Review & Accept	Final Product

The process steps detailed above are non-exhaustive. Any other steps/calculations as required, to achieve the ultimate performance targets shall be considered by the firm as part of the requirement of this EoI.

3.2.8. Inputs from MDL:

The following inputs shall be provided by MDL:

- a) Basic Design requirements and limitations for the system
- b) Shipyard assistance for installation of the system on the platform post-delivery by firm and during on-board testing and Trials to the extent possible.
- c) Any other inputs on a need-to-know basis.

3.3. SCOPE OF ASSOCIATION:

- 3.3.1. MDL is seeking response from Indian companies / consortiums led by Indian companies, duly registered, (under Indian Companies Act-2013), willing for design and development through collaboration for SHAFTING PROPULSION Equipment for Underwater platforms with MDL
- 3.3.2. The participating firm must possess necessary knowledge and experience in the field.
- 3.3.3. The technology if any possessed by participating firm must be non-infringing while delivering the desired performance and it must be clear from third-party Intellectual property infringement claims.
- 3.3.4. The participating firm must show willingness on its letter head to achieve more than 60% local content in above mentioned projects in line with GoI policies amended from time to time.
- 3.3.5. The participating firm must have a design facility experienced in the fields covered in the scope of this EoI.
- 3.3.6. Interested companies / consortiums meeting the Pre-Qualification Requirements (PQR) as given in Section-4 and ready to associate with MDL as per broad scope/ expectations given above are invited to submit their offer in response to this EoI.

3.4. INSTRUCTIONS

- 3.4.1. Language: All correspondences and documents related to the EoI response shall be in English language only.
- 3.4.2. The participating firm shall abide by the terms & conditions, as applicable, of the EoI.
- 3.4.3. All pages of the EoI shall be duly signed by the authorized signatory.
- 3.4.4. Multiple proposals from the same participating firm should not be submitted.
- 3.4.5. MDL at their discretion shall inspect the participating firm works/office/reference site premises for the purpose of evaluation, as deemed necessary before selection of partner. MDL decision in this regard shall be final.
- 3.4.6. Any participating firm which has been debarred/blacklisted by Central/State Governments or by any entity controlled by Central/State Governments from participating in any of their project, as on date of submission of EoI, shall not be eligible to submit the EoI.
- 3.4.7. Firm must be willing to sign an agreement of confidentiality with MDL.

3.5. PROCESS TO BE CONFIDENTIAL:

Information relating to the examination, clarification, evaluation and comparison of EoI and recommendations shall not be disclosed to participating firm. Any effort by participating firm to influence MDL processing of EoI or selection decisions may result in the rejection of the EoI.

3.6. MISCELLANEOUS:

3.6.1. Right to accept or reject any or all Applications:

- I. Notwithstanding anything contained in this EoI, MDL reserves the right to accept or reject any application and to annul the EoI process and reject all applications, at any time without any liability or any obligation for such acceptance, rejection or annulment and without assigning any reasons, thereof. In the event that MDL rejects or annuls all the applications, it may at its

- discretion, invite all eligible participating firms to submit fresh applications.
- II. MDL reserves the right to disqualify any applicant during or after completion of EoI process, if it is found there was a material misrepresentation by any such applicant or the applicant fails to provide within the specified time, supplemental information sought by MDL.
 - III. MDL reserves the right to verify all statements, information and documents submitted by the applicant in response to the EoI. Any such verification or lack of such verification by MDL shall not relieve the applicant of his obligations or liabilities hereunder nor will it affect any rights of MDL.

3.6.2. Governing Laws & Jurisdiction:

The EoI process shall be governed by, and construed in accordance with, the laws of India and the Courts at Mumbai (India) shall have exclusive jurisdiction over all disputes arising under, pursuant to and / or in connection with the EoI process.

SECTION- 4

PRE-QUALIFICATION CRITERIA

The determination of eligibility will take into account the technical and experience capabilities and past performance of the participating firm; it will be based upon an examination of documentary evidence of the participating firm qualifications submitted by the participating firm as well as such other information, as the MDL deems necessary and appropriate. The participating firm willing to associate with MDL should meet the following Pre-Qualification Criteria:

4.1. TECHNICAL QUALIFICATION: -

The bidder shall submit the following as a part of technical qualification.

- i. Bidders Company Profile.
- ii. List of infrastructure/equipment's held by firm which shall include but not limited to R&D / product development facility, Manufacturing Facility, Quality Control and Testing Facility
- iii. Bidder must have an experienced design team with experience in the design of PROPELLER AND SHAFTING SYSTEM for marine underwater platforms. Firm should also have expertise, testing/monitoring facilities for equipment design.
- iv. Bidder to submit relevant documents for similar products/projects/CoC/ work performed during the last 05 years. Documents should mention: Application, product range and Installation. Installation must be with a minimum 60% indigenization on work carried out. Firm to submit PO copies along with work completion documents in support of above.
- v. Colour photographs no less than 2 months old of the facility demonstrating the above must be submitted as part of the EOI response.
- vi. List of personnel (Project Management Team as well as Design Team) with designation, qualification and experience to determine their capabilities to carry out work mentioned in the scope of this EOI.
- vii. Valid ISO 9001:2015 Certificate

The Technical Qualification documents submitted shall demonstrate capability of firm to design, develop, test and supply PROPELLER AND SHAFTING SYSTEM solutions to meet the following specifications:

- a. Should have experience in designing screw propeller shaft system and torsional vibration calculation in shaft Propulsion system.
- b. Should have shaft machining facility for minimum 5 meters of the length.
- c. Should have manufactured thrust bearing for shaft of Ships/Underwater Platforms.
- d. Should have foundry to cast Propeller Hub and Blades of appx. 1 Ton of weight.
- e. Should have manufactured and supplied sea water seal (Stern Tube seal).
- f. Should have manufactured shaft coupling for marine shaft used of Ships/Underwater Platforms.
- g. Firm to fill specifications of Shaft propulsion system developed by them at Annexure 3.

4.2. COMMERCIAL QUALIFICATION: - The bidder shall submit the following as a part of commercial qualification.

4.2.1. Bidder shall not be under a declaration of ineligibility issued by Govt. of India / State govt. / Public Sector Undertakings etc.

4.2.2. Indian Bidder:

- i. Shop & Establishment registration certificate.
- ii. Factory License.
- iii. Certificate of Incorporation / Partnership deed as applicable.
- iv. Registration certificate from local bodies for conducting business.
- v. MSME, Startup certificate
- vi. GST certificate

Foreign Bidder: Registration certificate for conducting business as relevant.

4.3. FINANCIAL QUALIFICATION: -

- i. Shall have Average Annual turnover of Minimum Rs.5 Crores or equivalent Foreign currency during the last three years ending as on 31 Mar 2022 to participate in this EOI.
- ii. The Bidder shall enclose with its Proposal as per **Annexure-2**, certificate issued by Chartered Accountant with their seal and signature, stating the firms net worth & turnover during the past three years. Firm to submit Balance Sheet and Profit and Loss statement for last 3 years.
- iii. Bidder shall demonstrate access to unutilized line of credit / overdraft facility / cash credit facility from its consortium of banks. Alternatively, or complementarily should demonstrate liquid asset in form of cash / marketable securities in its balance sheet.
- iv. Companies / Start-ups may be relaxed for conditions of turnover, experience (PO copies), Infrastructure etc. offering proven innovative product / technology having Business prospects. MDL reserves right to consider or reject based on merits of such proposal.

SECTION- 5

Bid Rejection Criteria: - MDL may at its sole discretion and at any time during the evaluation of proposal, disqualify any bidder, if they have:

- i. Bids received after due date.
- ii. Bidder's failure to furnish sufficient or complete details for evaluation of the bids within the given period.
- iii. Incomplete / misleading / false / ambiguous in the proof of eligibility requirements.
- iv. Failed to produce timely clarifications related thereto, when sought.
- v. Bids not meeting qualification criteria mentioned above.
- vi. Submitted more than one proposal for single specialization area.
- vii. Declared ineligible by the Government of India / State govt. / Public sector undertaking.
- viii. Bids with technical requirements and or terms not acceptable to MDL.
- ix. Information relating to the evaluation, clarification and recommendation for pre-qualification shall not be disclosed to bidders or any other persons not officially concerned with such process until the pre-qualification process is completed. Any effort by the bidder to influence MDL prequalification process may result in rejection of his EOI.

SECTION- 6

Documents to be submitted along with EoI*

6.1. Submission of EoI: - List of documents to be submitted as part of EoI:

Participating firm should submit following documents along with their Proposal.

Sl.	Document Description	Filled in Formats to be Submitted with Proposal	Remarks
1.	Covering Letter		As per attached format
2.	General information	Annexure-1	
3.	Financial Information	Annexure-2	
4.	Technical Compliance Matrix (To be filled by firm)	Annexure-3	
5.	Questions	Annexure-4	
6.	Pre-Qualification Documents and photographs		As per section-4
7.	Documents / Presentation in support of area of collaboration		

*In case of consortium, same to be provided for constituent companies of consortium.

EoI FORMS

Format for Covering Letter
[On the Letterhead of the Participating firm]

To,

Mr. Girish Jadav,
HoS/DGM
(Additional Projects, Plg-
EY)
Mazagon Dock Shipbuilders Limited
(MDL), Mumbai-400010, India.
Contact No- 022-23763591/3596,
E-Mail: gjadav@mazdock.com / aritrarouth@mazdock.com / sanashikkar@mazdock.com

Ref: Submission of Expression of Interest (Eoi)

Sir,

Being duly authorized to represent and act on behalf of (Hereinafter Referred to as "the Applicant"), and having reviewed and fully understood the evaluation criteria and information provided, the undersigned hereby applies in response to the Eoi document.

We would like to associate with MDL for PROPELLER AND SHAFTING SYSTEM solution for underwater platform.

We understand that you are not bound to accept the Eoi.

I am enclosing the Expression of Interest with the details as per the requirements of the Eoi document, for your evaluation.

I hereby declare that the details furnished in this Eoi proposal are true and correct to the best of my knowledge and belief. In case any of the information is found to be false or untrue or misleading or misrepresenting, I am aware that I will be held liable for it and MDL is free to take any legal / commercial action not limited to barring / blacklisting.

We hereby declare that we are not under a declaration of ineligibility / blacklisting / debarring from doing business issued by Govt. of India / State govt. / Public Sector Undertakings etc.

Yours faithfully,

(Signature & Seal of Authorised Signatory) Name:

Designation: Date:

Address:

General Information to be submitted by Applicant along with cover letter

1. Name of the Company/ Companies (if consortium):
2. Legal status of the Company(ies):
3. Brief description of the Company(ies) including details of its business groups/subsidiaries/ affiliates:
4. Date of Incorporation:
5. Date of Commencement of Business:
6. Full address including Telephone nos. / Fax nos.:
Registered Office:
Head Office:
Address for communication:
Contact Details:
Office Address in India, if any:
7. Documents to be enclosed:
 - a. As per pre-qualification criteria

Signature & Seal: Authorized
Signatory of the Party

FINANCIAL INFORMATION

Date:

Name:

Financial data:

Sl. No.	Last three Financial Year	Annual Turnover	Profit after Tax (PAT)	Net worth as at the end of the financial year
1				
2				
3				

Exchange rate for conversion to INR shall be as published by Reserve Bank of India as on date of floating EoI. *

2. Financial documents#

The participating firm shall provide copies of the financial statements including balance sheets all notes and related income statements for latest 3 years.

The financial statements shall:

- Reflect the financial situation of the participating firm submitting EoI.
- Be audited by a certified accountant.
- Be complete, including all notes to the financial statements.
- Correspond to accounting periods already completed and audited (no statements for partial periods shall be accepted).

#In case of consortium, same to be provided for constituent companies of the consortium.

(Signature
& Seal) Authorised
Signatory of the Party

Certificate from Chartered Accountant:

This is to certify that _____ (name of the Applicant) has received the payments shown above against the respective years and that the net worth is as computed.

Name of the Authorized Signatory representing Auditing firm: Designation:

**Name of firm
(Chartered Accountant):
Signature of the Authorized
Signatory**

Seal of Audit firm

Technical Compliance Matrix
(To be filled by the Firm)

1.1 Module

Sr. No	Qualification Criteria	Compliance
1	Willingness to exclusively collaborate with MDL for the PROPELLER AND SHAFTING SYSTEM as depicted in this EoI	Yes/No
2	Design & manufacturing facility or tie up for PROPELLER AND SHAFTING SYSTEM.	Yes/No
3	Arrangement and experience to make and supply of PROPELLER AND SHAFTING SYSTEM.	Yes/No
4	Country of origin for collaborators, should not be from Indian hostile countries.	Yes/No
5	Compliance to the Technical particulars provided in the section 2 of this EoI/RFI in case of awarding the contract.	Yes/No

Annexure 4

Questions:

- 1) Whether firm has developed/is developing PROPELLER AND SHAFTING SYSTEM for underwater marine platforms in the past?
- 2) Whether firm is willing to 60% Indigenize the development and production of PROPELLER AND SHAFTING SYSTEM for underwater marine platforms?
- 3) Whether firm is willing for Transfer of Technology (TOT) to MDL?
- 4) Whether firm is willing to hold joint patents with MDL for technology developed during the association