



मंगलूर रिफाइनरी एण्ड पेट्रोकेमिकल्स लिमिटेड
MANGALORE REFINERY & PETROCHEMICALS LTD.
(ऑयल एण्ड नेचुरल गैस कॉर्पोरेशन लिमिटेड की सहायक कंपनी)
(A Subsidiary of Oil and Natural Gas Corporation Ltd.)



PRE-TENDER MEET (PTM) FOR

**CONVERSION OF STG-6 TO BACK PRESSURE
TURBINE FOR MRPL REFINERY COMPLEX POWER
SYSTEM UPGRADATION PROJECT
(LSTK BASIS)**



Document NO.:
MRPL/PROJECTS/02/2024

Mangalore Refinery and Petrochemicals Limited (MRPL) is a subsidiary of M/s. Oil and Natural Gas Corporation Limited (ONGC). Presently, MRPL is planning to upgrade its electrical power system for both Aromatic Complex and Refinery Complex, for which Tractebel Engineering Private Limited (TEPL) has been appointed as the Project Management Consultant (PMC). On behalf of MRPL, Tractebel is inviting competent Original Equipment Manufacturers (OEM) having experience in design, engineering, manufacturing, erection, testing and commissioning of industrial steam turbines, to attend the PRE-TENDER MEET for the MRPL Refinery Complex power system upgradation work.

Pre tender Details as follows:

Pre Tender No.	MRPL/Projects/02/2024
Pre Tender on Website	From 27.08.2024 to 30.08.2024
Closing date for submission of any documents if applicable.	Up to 10:30 hrs (IST) on 30.08.2024
Pre Tender Meet For	Conversion of STG-6 to Back Pressure Turbine for MRPL Refinery Complex Power System Upgradation Work
Pre Tender Meet Timing	30.08.2024 at 11:00 AM (IST)
Date of Meeting Through VC	<p>Option-A: Through the following link whoever is having Microsoft TEAMS</p> <p>https://teams.microsoft.com/l/meetup-join/19%3ameeting_YmZhYThhZmYtNGM1MC00ZTQ5LWJmNTMtODhkZTg4OGIwNzJi%40thread.v2/0?context=%7b%22Tid%22%3a%2224139d14-c62c-4c47-8bdd-ce71ea1d50cf%22%2c%22Oid%22%3a%22f96aea47-336f-45b4-ba20-878d102e4c2b%22%7d</p> <p>Option-B: Through the following link whoever is NOT having Microsoft TEAMS</p> <p>Click here to join the meeting</p> <p>Meeting ID: 311 401 501 454 Passcode: dEwHPr</p>
Pre tenders documents available at	www.mrpl.co.in/eoi

Please contact below mentioned personnel for further details:

Designation	Contact No.	Email id
Subha Biswas Project Manager	+91-124 469 8500 +91-99997 79796	subha.biswas@tractebel.engie.com

All Credentials/ Documents shall be

addressed to General Manager

(Projects)
Projects Department,
Netravati Building
Mangalore Refinery & Petrochemicals
Ltd Kuthethoor PO, Via Katipalla,
Mangalore – 575 030 Karnataka- India

The envelope containing the documents shall be superscribed
**“CONVERSION OF STG-6 TO BACK PRESSURE TURBINE
PACKAGE FOR REFINERY COMPLEAX POWER SYSTEM
UPGRADATION WORK (LSTK BASIS)”**

OR

To be submitted through email to the following IDs;

- 1) subha.biswas@tractebel.engie.com
- 2) psup.project@mrpl.co.in
- 3) p.020678n9_mrpl_psug@tractebel.engie.com

**CONVERSION OF STG-6 TO BACK PRESSURE
TURBINE PACKAGE FOR MRPL REFINERY
COMPLEAX POWER SYSTEM UPGRADATION
WORK (LSTK BASIS)**



PRE TENDER MEET (PTM)

**MANGALORE REFINERY AND
PETROCHEMICALS LIMITED**

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1.0 INTRODUCTION

- 1.1 Mangalore Refinery & Petrochemicals Limited (MRPL) a government of India schedule 'A' CPSE and a subsidiary of ONGC is a State of Art Grassroots Petroleum Refinery located in a beautiful hilly terrain, north of Mangalore city, in Dakshina Kannada region, Karnataka State. The Refinery has got a versatile design with high flexibility to process Crudes of various API and with high degree of Automation. MRPL has high standards in refining and environment protection matched by its commitments to society. MRPL has also developed a Green Belt around the entire Refinery with plant species specially selected to blend with the local flora.
- 1.2 MRPL has an Aromatics Complex, which is a downstream unit of the refinery which processes naphtha for the production of high quality Px & Bz. MRPL has high standards in refining and environment protection matched by its commitments to society.
- 1.3 MRPL calls for a Pre Tender Meet for the Conversion of STG-6 to Back Pressure Turbine Package for Refinery Complex Power System Upgradation Work at MRPL (LSTK Basis).

2.0 BRIEF DESCRIPTION OF THE SYSTEM

- 2.1 MRPL has gone through three phases of expansion over time and has added power generation facilities in each of the three phases.
- 2.2 The Mangalore Refinery complex presently has three existing Captive Power Plants, named CPP-1, CPP-2 and CPP-3. CPP-1 has two Steam Turbine Generator sets (STG-1 & STG-2), CPP-2 has three Steam Turbine Generator sets (STG-3, STG-4 & STG-5). CPP-3 has two Gas Turbine Generator sets (GTG-1 & GTG-2) and two Steam Turbine Generators (STG-6 & STG-7).
- 2.3 CPP-1 and CPP-2 are physically located side by side whereas the CPP-3 is located in a different part of the Refinery Complex, at a distance of around 3.8 km from CPP-1 & 2.

3.0 OBJECTIVES

Recently, MRPL has taken up entire power system upgradation project wherein the electrical power system, as well as the cooling water system shall be integrated.

Based on various internal studies conducted by MRPL, it is decided to convert the existing condensing type turbine of STG-6 to backpressure type turbine. A tender is intended to be floated soon for this conversion work. This pre-tender meet is being arranged to preliminary discuss the work and to know bidder's interest and experience in similar work.

4.0 SCOPE OF WORK

- 4.1 The scope includes but not limited to Design, Engineering, Manufacture, Fabrication, Disassembly and Reassembly, Inspection, Testing at Manufacture's works, Packing, Transportation, Delivery, Receiving and Unloading at site, Storage and handling at site, Erection, Testing, Commissioning and Field Acceptance test required for the **conversion of the existing condensing type turbine of STG-6 to backpressure type turbine** in CPP-3 of MRPL Refinery Complex, on lumpsum turnkey (LSTK) basis.
- 4.2 The existing STG-6 details are given below:
- 4.2.1 Make: M/s BHEL
- 4.2.2 Type: EEH NK 50/56-3
- 4.2.3 Machine No.: T-0888
- 4.2.4 Maximum Output: 31,000 kW
- 4.2.5 Design Output: 28,450 kW
- 4.2.6 Speed: 6,300 rpm
- 4.2.7 Inlet Pressure: 104 kg/cm² (abs)
- 4.2.8 Inlet Temperature: 505 degree Centigrade
- 4.2.9 Extraction: Double Extraction Condensing type

5.0 DATA TO BE FURNISHED BY THE BIDDER

1. General Information				
1.1	Name of the BIDDER / Firm			
1.2	Nature or legal status of the Firm			
1.3	Name and address of associated companies to be involved in the project with relationship and role, if any.			
1.5	Registered Address of Firm			
1.6	Contact Person			
1.7	Designation and address of Contact person			
1.8	Email ID			
1.9	Turnover & Net worth of the Firm during last three financial years (Please enclose copy of audited annual reports)	Year	Turn Over (INR)	Net Worth (INR)
		2021-22		
		2022-23		
		2023-24		

2. Past experience of the bidder.		
2.1	<ul style="list-style-type: none"> • Execution of Conversion of BHEL Make Turbines on LSTK basis. 	
	Details of above activities in last ten (10) year term.	
2.2	Bidder should provide necessary documents such as copies of signed Agreement/ Work order/ Purchase order/ acknowledged final report or any other document to prove the scope of completed works against the order to the satisfaction of MRPL.	

6.0 DISCLAIMER

MRPL has prepared this document to give interested parties background information on the project. While MRPL has taken due care in the preparation of the information contained herein and believes it to be accurate, neither MRPL nor any office authorities, officers, employees, agents/and advisors gives any warranty or make any representations, express or implied as to the completeness or accuracy of the information contained in this document or any information contained in this document or any information which may be provided in connection therewith.

Interested parties are required to make their own inquiries and respondents will be required to confirm in writing that they have done so and they do not rely on the information provided in the Pre Tender document in submitting their response. The information is provided on the basis that it is non-binding on MRPL or any of its authorities or agencies or any of their respective officers, employees, agents or advisors.

MRPL reserves the right not to proceed with the project, to alter the timetable reflected in this document or to change the process or procedure to be applied for listing of enquiry partners. It also reserves the right to decline to discuss the project further with any party expressing interest. No reimbursement of cost of any type whatsoever will be paid to persons, or entities, expressing interest in the project.