

## Pre-Qualification Requirements (PQR) of Bidders for Machine Monitoring System (MMS / TSI)

<b>Note:</b>	<b>All documents shall be compiled clause wise and submitted with proper tagging in following order.</b>		
SI No	Requirement	Bidder Confirmation	Documentation Requirement
1	<p>Machine Monitoring system / Turbo-Supervisory Instrumentation (MMS / TSI) shall be used for continuous monitoring and indication of Critical machine parameters like vibration &amp; axial displacement, bearing and winding temperature, key-phasor etc.</p> <p>Complete MMS System shall comply the requirements specified as per API-670.</p> <p>Bidder shall submit Technical Catalog / brochure of MMS system indicating compliance to API 670. Bidder shall also indicate the Website link for technical catalog / brochure, published on the MMS OEM vendor website.</p> <p><b><u>Note: Bidder offer shall NOT be considered if offered MMS System does not comply to API 670.</u></b></p>	Bidder to indicate MMS is API 670 compliant YES / NO	MMS Catalog / Brochure. MMS OEM Website link for MMS Catalog / Brochure / Datasheets & O&M Manuals.
2	<p>The responsibility of complete MMS system to be supplied as per BHEL specification including engineering, selection of components, Erection and Commissioning (Supervision) shall be with MMS OEM only. (MMS OEM shall be single point responsibility vendor (SPRV) for the complete MMS system). MMS OEM shall submit confirmation for "SPRV" as per attached format.</p> <p>MMS system shall comprise of the following items.</p> <ol style="list-style-type: none"> <li>1) Sensor</li> <li>2) Sensor Cable &amp; Driver</li> <li>3) MMS Rack with Dual Redundant Power Supply</li> <li>4) MMS Rack Module-Proximity card</li> <li>5) MMS Rack Module-Temperature card</li> <li>6) MMS Rack Module-Key Phasor card, Zero Speed and Speed Measurement / Reverse Rotation.</li> <li>7) MMS Rack Module-Communication card</li> <li>8) MMS Rack Module-Relay Card.</li> </ol> <p><b><u>Note: Bidder offer shall NOT be considered if duly signed and stamped SPRV format is not submitted.</u></b></p>	Bidder to indicate Format-A_SPRV Attached YES / NO	Bidder to submit Filled in Format-A-SPRV
3	Bidder shall be Original Equipment Manufacturer or MMS OEM's authorized distributor / channel partner of Machine Monitoring system having offices in India. Bidder to provide the following information for the MMS system.	----	----
a	Bidder is MMS OEM.	Bidder to indicate YES / NO	----
b	Bidder is MMS OEM's authorized distributor / channel partner in INDIA.	Bidder to indicate YES / NO	----
4	In case the Bidder is MMS OEM's authorized distributor / channel partner.	----	----
a	<p>Authorized distributor / channel partner shall submit authorization certificate from their MMS OEM to quote for complete job. For authorized distributors / channel partner, the expiry date of validity of distributorship / partnership should be clearly indicated along with documentary evidences.</p> <p><b><u>Note: Bidder offer shall NOT be considered if duly signed and stamped Authorisation Letter from MMS OEM is not submitted.</u></b></p>	Bidder to indicate Authorisation Letter Attached YES / NO	Bidder to submit Authorisation letter from MMS OEM.
b	<p>Authorized distributors / channel partner shall have association with the MMS OEM for the past five years and should have supplied and commissioned with the MMS OEM make MMS system.</p> <p><b><u>Note: Bidder offer shall NOT be considered if duly signed and stamped Letter from MMS OEM is not submitted.</u></b></p>	Bidder to indicate letter from MMS OEM indicating the start date Attached YES / NO	Bidder to submit letter from MMS OEM indicating the start date of partnership.

(BIDDER SIGNATURE WITH SEAL)

(TO BE SIGNED BY BIDDER'S PRINCIPAL CORPORATE LEVEL SIGNATORY)

## Pre-Qualification Requirements (PQR) of Bidders for Machine Monitoring System (MMS / TSI)

<b>Note:</b>	<b>All documents shall be compiled clause wise and submitted with proper tagging in following order.</b>		
SI No	Requirement	Bidder Confirmation	Documentation Requirement
c	<p>MMS OEM shall declare that in the event of discontinuation of their partnership, at any point of time during the warranty period, OEM will take the total responsibility for meeting all the commitments made earlier by the authorized distributor / channel partner.</p> <p><b><u>Note: Bidder offer shall NOT be considered if duly signed and stamped Declaration Letter from MMS OEM is not submitted.</u></b></p>	Bidder to indicate Format-B_MMS OEM DECLARATION Attached YES / NO	Bidder to submit Filled in Format-B_MMS OEM DECLARATION
5	<p>Bidder shall have an established facility in India for engineering, documentation, after sale service for the offered make and model of MMS. Bidder to provide the office location / address along with organisation chart indicating the personnel involved in Proposal, Engineering, commissioning and servicing of the offered MMS system.</p> <p><b><u>Note: Bidder offer shall NOT be considered if duly signed and stamped Organisation Chart along with India Office address is not submitted.</u></b></p>	Bidder to indicate Organisation Chart Attached YES / NO	Bidder to submit Organisation Chart
6	<p>Bidder to confirm that they will provide spares and services support for the offered MMS system for at least ten years from the date of supply. In case of authorized distributor / channel partner, "After Sales Service" and availability of spares to be guaranteed by MMS OEM for at least ten years. Bidder shall submit signed and stamped "Logistic Support certificate".</p> <p><b><u>Note: Bidder offer shall NOT be considered if duly signed and stamped Logistic Support certificate is not submitted.</u></b></p>	Bidder to indicate Format-C1 & C2_Logistic Support Certificate Attached YES / NO	Bidder to submit Format-C1 & C2_Logistic Support Certificate
7	<b>PTR for MMS System</b>	----	----
a	<p>Bidder should have supplied &amp; commissioned FIVE such MMS systems during last five years. At least ONE of the above mentioned MMS system should have been installed and used for Centrifugal Compressor train in a Refinery (Hazardous Area, IEC Zone 1, 2; Gas Gr II-A, B &amp; C) environment. Bidder to submit attached PTR format, duly filled in with all the details. Reference list shall contain name of end user, latest contact email id and contact telephone number.</p> <p>Note-1: If BHEL is unable to verify the PTR furnished, with end user contact details provided above, the offer will be rejected.</p> <p>Note-2: PTR References of R&amp;M projects are not acceptable, references of supply of MMS for non critical services like pumps, fans etc are not acceptable.</p> <p>Note-3: In case Bidder is MMS OEM's Authorised Distributor / Channel partner, Bidder shall submit PTR for MMS system supplied by Bidder only. MMS OEM PTR (without BIDDER role is NOT acceptable).</p> <p><b><u>Note: Bidder offer shall NOT be considered if duly signed and stamped PTR is not submitted.</u></b></p>	Bidder to indicate Format-D_PTR Attached YES / NO	Bidder to submit Filled in Format-D_PTR
b	<p>Bidder to submit evidence of satisfactory performance of the offered MMS system for a period of not less than ONE year, which has been supplied during the last five years, from at least one end user for Centrifugal Compressor train in a Refinery (Hazardous Area, IEC Zone 1, 2; Gas Gr II-A, B &amp; C) environment. The following documents are required for acceptance of Satisfactory Performance.</p> <p>a) Unpriced purchase order copy of end user placed on bidder.</p> <p>b) Minutes of meeting with end-user for commissioning and handing over.</p> <p>c) Certificate issued by end user mentioning the date of installation, Make &amp; model number of the MMS. This document shall be dated at least ONE year from the date of MMS commissioning.</p> <p><b><u>Note: Bidder offer shall NOT be considered if above listed THREE documents are not submitted.</u></b></p>	Bidder to indicate all THREE listed documents are Attached YES / NO	All documents listed to be submitted.
8	<p>All correspondence, Documentation, catalogs and Manuals shall be in English language only.</p> <p><b><u>Note: Bidder offer shall NOT be considered if above listed documents are not submitted in ENGLISH language.</u></b></p>	Bidder to indicate YES / NO	----

(BIDDER SIGNATURE WITH SEAL)  
SEAL)

(MMS OEM SIGNATURE WITH

(TO BE SIGNED BY BIDDER'S & MMS OEM's PRINCIPAL CORPORATE LEVEL SIGNATORY)

9	Format-A_SPRV
	<p><b><u>SINGLE POINT RESPONSIBILITY VENDOR (SPRV) COMPLIANCE STATEMENT</u></b> (TO BE SIGNED BY MMS OEM'S PRINCIPAL CORPORATE LEVEL SIGNATORY ON COMPANY LETTERHEAD)</p> <p>I, ON BEHALF OF M/s.....&lt;MMS OEM NAME&gt;.....CONFIRM THAT THE PROPOSAL OF <u>API 670 COMPLIANT MMS SYSTEM</u> QUOTED BY M/s.....&lt;BIDDER NAME&gt;..... AGAINST BHEL RFQ NO..... DT.....IS IN TOTAL COMPLIANCE TO THE SCOPE AS WELL AS ALL THE TECHNICAL SPECIFICATIONS.</p> <p>I, ON BEHALF OF M/s.....&lt;MMS OEM NAME&gt;.....CONFIRM THAT M/s.....&lt;MMS OEM NAME&gt;..... SHALL BE SINGLE POINT RESPONSIBILITY VENDOR FOR THE COMPLETE MMS SYSTEM TO BE SUPPLIED AS PER BHEL SPECIFICATION INCLUDING ENGINEERING, SELECTION OF COMPONENTS, ERECTION AND COMMISSIONING (SUPERVISION), AFTER SALES SERVICES AND SPARE PARTS.</p> <p>(SIGNATURE WITH SEAL)</p>

10	<b>Format-B_MMS OEM DECLARATION</b>
	<p><b><u>MMS OEM RESPONSIBILITY DECLARATION FOR AUTHORISED DISTRIBUTOR / CHANNEL PARTNER</u></b> (TO BE SIGNED BY MMS OEM'S PRINCIPAL CORPORATE LEVEL SIGNATORY ON COMPANY LETTERHEAD)</p> <p>I, ON BEHALF OF M/s.....&lt;MMS OEM NAME&gt;.....DECLARE THAT IN THE EVENT OF DISCONTINUATION OF OUR DISTRIBUTORSHIP / CHANNEL PARTNERSHIP WITH M/s.....&lt;BIDDER NAME&gt;.....,AT ANY POINT OF TIME FROM PROPOSAL STAGE TO END OF THE WARRANTY PERIOD, M/s.....&lt;MMS OEM NAME&gt;.....TAKES TOTAL RESPONSIBILITY FOR MEETING ALL THE COMMITMENTS MADE BY M/s.....&lt;BIDDER NAME&gt;..... AGAINST BHEL RFQ NO..... DT.....</p> <p>(SIGNATURE WITH SEAL)</p>

11	<b>Format-C1_LOGISTIC SUPPORT CERTIFICATE BY MMS OEM</b>
	<p><b><u>CERTIFICATE FOR LOGISTICS SUPPORT (BY MMS OEM)</u></b>            (TO BE SIGNED BY MMS OEM'S PRINCIPAL CORPORATE LEVEL SIGNATORY ON COMPANY LETTERHEAD)</p> <p>I, ON BEHALF OF M/S.....&lt;MMS OEM NAME&gt;.....CONFIRM THAT THE <u>API 670 COMPLIANT MMS SYSTEM</u> QUOTED BY M/s.....&lt;BIDDER NAME&gt;..... FOR CENTRIFUGAL COMPRESSOR TRAIN OF &lt;PROJECT NAME (LATER)&gt; SHALL CONTINUE TO BE SUPPORTED BY US FOR A PERIOD OF MINIMUM TEN (10) YEARS. THE QUOTED ITEM SHALL NOT BE WITHDRAWN FROM INDIAN MARKET IN NEXT THREE (3) YEARS AS A MATTER OF OUR CORPORATE POLICY.</p> <p>I FURTHER CONFIRM THAT IN CASE OF PLACEMENT OF ORDER BY M/S BHEL ON M/s.....&lt;BIDDER NAME&gt;....., WE SHALL CONTINUE TO SUPPORT BHEL / BHEL CLIENT IN PROVIDING BACK-UP ENGINEERING, MAINTENANCE SUPPORT AND SPARE PART SUPPORT FOR A PERIOD OF TEN (10) YEARS FROM THE DATE OF EXPIRY OF WARRANTY.</p> <p>(SIGNATURE WITH SEAL)</p>
12	<b>Format-C2_LOGISTIC SUPPORT CERTIFICATE BY BIDDER</b>
	<p><b><u>CERTIFICATE FOR LOGISTICS SUPPORT (BY BIDDER)</u></b>            (TO BE SIGNED BY BIDDER'S PRINCIPAL CORPORATE LEVEL SIGNATORY ON COMPANY LETTERHEAD)</p> <p>I, ON BEHALF OF M/s.....&lt;BIDDER NAME&gt;..... CONFIRM THAT THE API 670 COMPLIANT MMS SYSTEM QUOTED BY M/s.....&lt;BIDDER NAME&gt;..... FOR CENTRIFUGAL COMPRESSOR TRAIN OF &lt;PROJECT NAME (LATER)&gt; SHALL CONTINUE TO BE SUPPORTED BY US AND OUR PRINCIPAL(S). THE QUOTED ITEM SHALL NOT BE WITHDRAWN FROM INDIAN MARKET IN NEXT THREE (3) YEARS AS A MATTER OF OUR CORPORATE POLICY AS SUPPORTED BY ATTACHED CERTIFICATE FROM OUR PRINCIPAL(S) M/S.....&lt;MMS OEM NAME&gt;.....</p> <p>I FURTHER CONFIRM THAT IN CASE OF PLACEMENT OF ORDER BY M/s BHEL ON US, WE SHALL CONTINUE TO SUPPORT BHEL / BHEL CLIENT IN PROVIDING BACK-UP ENGINEERING, MAINTENANCE SUPPORT AND SPARE PART SUPPORT FOR A PERIOD OF TEN (10) YEARS FROM THE DATE OF EXPIRY OF WARRANTY.</p> <p>(SIGNATURE WITH SEAL)</p>

<b>13</b>	<b>Format-D_PROVEN TRACK RECORD (PTR)</b>					
1	Name of the Bidder					
2	Whether manufacturer & supplier:					
3	Whether System Integrator & Supplier:					
4	Name of Packager:					
<b>Sl.No</b>	<b>PTR Requirement</b>	<b>Ref-1</b>	<b>Ref-2</b>	<b>Ref-3</b>	<b>Ref-4</b>	<b>Ref-5</b>
1	Purchaser's name, address, Tel no, Fax no, email and contact person					
2	Description of the items offered:					
	Please add list of MMS items as follows: (Make / Model)					
	1) Sensor					
	2) Sensor Cable & Driver					
	3) MMS Rack with Dual Redundant Power Supply					
	4) MMS Rack-Proximity card					
	5) MMS Rack-Temperature card					
	6) MMS Rack-Key Phasor card, Zero Speed and Speed Measurement / Reverse Rotation.					
	7) MMS Rack-Communication card					
8) MMS Rack Module-Relay Card.						
3	Description of item as manufactured & Supplied/ engineered (identify Bidder's scope of work)					
4	Date of order placed					
5	Contractual completion date					
6	Actual completion date/ month & year of commissioning					
7	Reasons of delay if any					
8	Details of major break down till date.					