

**Enclosure-I: Technical Specifications of SIEMENS MAKE Hardware Software
for Condition Monitoring Setup of Spindle Test Rig.**

Sl no	Software or Platform	Description	Part Number	QTY
1.	CMS X-tools professional v05.00 engineering-SW single license software class A. For acquisition, analysis simulation, visualization and storage for field- and process data with coupling for ION, IFN, CTN incl. Documentation and license key on USB-stick.	With a sampling rate of up to 192 kHz, even highly dynamic processes and occurrences can be recorded with high resolution. The system is used as a portable and/or installed unit in the fields of research & development, testing, error tracking and production. various types of measurement devices (IONs, IFNs and CTNs)	9AE4160-3BA00	1.
2.	CMS X-Tools analysis library Version V 05.00 Engineering software single license Software class A. For library of evaluation Analysis and signalling functions, For specific monitoring of electromechanical equipment Incl. configuration for data modelling, documentation and license key on USB stick Compatible with CMS X-Tools Professional V05.00	<ul style="list-style-type: none"> • Graphical configuration of analysis tasks for online and offline data calculations via Analysing Models • Textual configuration of analysis tasks for online and offline data calculations via Analysing Scripts • Encapsulation of analysis tasks for online and offline data calculations via User Functions 	9AE4160-4BA00	1
3.	SIMATIC WIN CC ADVANCED V17	SIMATIC WINCC inside TIA Portal covers the entire engineering and visual software spectrum. From the machine level visualization to SCADA.	6AV2103-0DA07-0AA5	1
4.	SIMATIC STEP 7 PROFESSIONAL V17	Programming S71200 and any other PLC	6ES7822-1AA07-0YA5	1
5.	SIMATIC S7, F-programming tool, STEP 7 Safety Advanced V17; engineering software	Safety V 17, programming software	6ES7833-1FA17-0YA5	1
6.	SINAMIC START DRIVE Advanced V17	TIA portal includes start Drive for intuitively integrating SINAMICS drives into the automation landscape.	6SL3072-4HA02-0XA5	1

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7.	SINUMERIK 828D/840D SL SINUMERIK Integrate Run MyHMI/3GL Software option Delivery of a license	Use extended HMI applications Run MyHMI /3GL	6FC5800-0AP60- 0YB0	1
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HARDWARE				
8.	Cable MIL-1000, length 10.0m	Connecting cable for connection of vibration sensors	6AT8002-4AC10	5
9.	SIPLUS CMS1200 SM 1281 cable clamp set (set of 4 Nos)	The area where the cable shield is connected to the cabinet earth is a critical point. It is very important that the connection has a low resistance. Hence shielding bracket sets are used.	6AT8007-1AA20- 0AA0	2
10.	Memory card (2GB)	Data Storage	6ES7954-8LP03- 0AA0	1
11.	DIN rail 35 mm, length: 483 mm, for 19" cabinets	Mounting and assembly	6ES5710-8MA11	5
12.	SM1231 SIMATIC S7-1200, Analog input, SM 1231, 8AI, +/-10 V, +/-5 V, +/-2.5 V, or 0-20 mA/4-20 mA, 12 bit+sign (13 bit ADC)	Analog input interface for thermocouples	6ES7231-5QF32- 0XB0	2
13.	SIMATIC ET 200SP, PROFINET bundle IM, IM 155-6PN ST, max. 32 I/O modules and 16 ET 200AL modules, single hot-swap, the bundle consists of Interface module (6ES7155-6AU01-0BN0), Server module (6ES7193-6PA00-0AA0), BusAdapter BA 2xRJ45 (6ES7193-6AR00-0AA0)	Distributed I/O system and PROFINET bus adapter	6ES7155-6AA01- 0BN0	2
14.	Connector 180 degrees	Profinet/ethernet	6GK1901-1BB10- 2AA0	20
15.	Connecting Cable Ethernet	(universal use)	6XV1840-2AH10	50 mts

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Terms & Conditions:

1	Acceptance and Warranty Terms	<ul style="list-style-type: none"> • Physical verification and functionality check at the time of delivery • Should meet all technical specifications and OEM part numbers mentioned in the enquiry when inspected at CMTI. • Unconditional warranty of a minimum of 1 Year from the date of acceptance, including free replacement in case of any manufacturing defects to be provided. • All software items to be supplied on the basis of the perpetual license No subscription-based quote is considered
2	Payment terms	<ul style="list-style-type: none"> • 80% after delivery and inspection of all items, 20% after installation, commissioning, training and satisfactory demonstration software
3	Delivery	<ul style="list-style-type: none"> • All items should be supplied and installed within 6-8 weeks from the date of P.O. • Training and demonstrations should be completed within 12 weeks from the date of P.O.
4	Manuals and reports	<ul style="list-style-type: none"> • 2 sets of Hardcopies of Operation Manuals in English should be supplied • 2 sets of Hardcopies of Maintenance manuals to be supplied in English only • All training-related materials to be supplied in hard copies 2 sets.
5	Additional terms	<ol style="list-style-type: none"> 1. If the product quoted is proprietary, please provide a proprietary certificate from the manufacturer mentioning that the product is proprietary. 2. If the bidder is not a manufacturer, the bidder must provide an authorized distributor certificate signed by the manufacturer/OEM. 3. Sample demo programs must be provided, and working of the software-hardware items.
7	<p>All the technical specifications are "Essential" unless otherwise mentioned "Specify". The vendor should meet all technical specifications to qualify the bid.</p>	

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Item: Siemens Condition Monitoring SoftwareSchedule of Quantities for technical evaluation

Name of Tenderer : _____

Sl. No.	Description of items	Qty	Unit	Compliance
Supply of Software for Condition Monitoring				Yes/ No
1	Part number: 9AE4160-3BA00 CMS X-tools professional v05.00 engineering-SW single license software class A.For acquisition, analysis simulation, visualization and storage for field- and process data with coupling for ION, IFN, CTN incl. Documentation and license key on USB-stick.	1	Nos	
2	Part number: 9AE4160-4BA00 CMS X-Tools analysis library Version V 05.00 Engineering software single license, Software class A. For library of evaluation Analysis and signalling functions, For specific monitoring of electromechanical equipment Incl. configuration for data modelling, documentation and license key on USB stick Compatible with CMS X- Tools Professional V05.00	1	Nos	
3	Part number: 6AV2103-0DA07-0AA5 SIMATIC WIN CC ADVANCED V17	1	Nos	
4	Part number: 6ES7822-1AA07-0YA5 SIMATIC STEP 7 PROFESSIONAL V17		Nos	
5	Part number:6ES7833-1FA17-0YA5 SIMATIC S7, F-programming tool, STEP 7 Safety Advanced V17; engineering software	1	Nos	
6	Part number: 6SL3072-4HA02-0XA5 SINAMIC START DRIVE Advanced V17	1	Nos	
7	Part number: 6FC5800-0AP60-0YB0 SINUMERIK 828D/840D SL SINUMERIK Integrate Run MyHMI/3GL Software option Delivery of a license	1	Nos	
Packing and forwarding Charges				
Freight Charges				
GST				-
Grand Total				-
Delivery Schedule		Within 4 weeks of P.O.		
Payment Terms		80% + 20%		

Item: Siemens Condition monitoring Hardware



Schedule of Quantities for technical evaluation

Name of Tenderer :

Sl. No.	Description of items	Qty	Unit	Compliance
Supply of Condition monitoring Hardware				Yes/ No
1	Part number: 6AT8002-4AC10 Cable MIL-1000, length 10.0m	1	Nos	
2	Part number:6AT8007-1AA20-0AA0 SIPLUS CMS1200 SM 1281 cable clamp set (set of 4 Nos)	1	Nos	
3	Part number: 6ES7954-8LP03-0AA0 Memory card (2GB)	1	Nos	
4	Part number:6ES5710-8MA11 DIN rail 35 mm, length: 483 mm, for 19" cabinets		Nos	
5	Part number: 6ES7231-5QD1-0XB0 SM1231 SIMATIC S7-1200, Analog input, SM 1231, 8AI, +/- 10 V, +/-5 V, +/-2.5 V, or 0-20 mA/4-20 mA, 12 bit/12 bit ADC	1	Nos	
6	Part number: 6ES7155-6AA01-0BNO SIMATIC ET 200SP, PROFINET bundle IM, IM 155-6PN ST, max. 32 I/O modules and 16 ET 200AL modules, single hot swap, bundle consists of: Interface module (6ES7155-6AU01-0BNO), Server module (6ES7193-6PA00-0AA0), Bus Adapter BA 2xRJ45 (6ES7193-6AR00-0AA0)	1	Nos	
7	Part number: 6GK1901-1BB10-2AA0 Connector 180 degrees	1	Nos	
8	Part Number:6XV1840-2AH10 Connecting Cable Ethernet	50	meter	
Packing and forwarding Charges				
Freight Charges				
GST				-
Grand Total				-
Delivery Schedule		Within 4 weeks of P.O.		
Payment Terms		80% + 20%		