



Schedule of Tender
For
Solid Works Premium 2021 Software

**Central Manufacturing Technology Institute
Tumkur Road, Bangalore - 560022, India**

Central Manufacturing Technology Institute
Tumkur Road, Bangalore - 560022, India

TENDER FOR
SOLIDWORKS PREMIUM 2021 SOFTWARE

Annexure - I:

Schedule of Tender

(To be filled in by the tenderer and returned and duly signed along with enclosure to the Schedule of Tender)

1.	Name of Purchaser	Central Manufacturing Technology Institute Tumkur Road, Bangalore 560 022
2.	Tender No:	CMTI/A-051/BS/21/PDE/VM2.5T dtd. 23.04.2021
3.	Place of delivery	Central Manufacturing Technology Institute Tumkur Road, Bangalore 560 022
4.	Delivery of Software Required	Within 4 weeks from the date of receipt of purchase order
5.	Date of receipt of the Tender	On or before 12.05.2021
6.	Validity of the tender	Tender should be valid for a period of not less than 2 months from the date of offer and unless otherwise specified by the tenderer, the tenders shall be treated as valid even thereafter.
7.	Technical details/ Requirements for which the tender is invited	<ul style="list-style-type: none"> a) As per technical specifications in Annexure-II(enclosed). b) All details that are required in the specification must be included in the offer. Incomplete tenders are liable to be rejected. c) Wherever numerical values are specified, tenderer shall respond with numerical values that actually correspond to the product. Any additional features/ details pertaining to the product should be enclosed separately.
8.	Price offered	<ul style="list-style-type: none"> a) The quotation should be furnished in TWO parts in the following manner. b) The first part should contain complete technical details of the item offered along with name and address of the manufacturer, full name and address of the authorized agent, guaranteed delivery period and 2 sets of the latest catalogues. This part should not contain the price details. This part should be superscribed with "Tender Enquiry Reference and Date" and "Technical Bid for Solidworks Premium 2021 Software"

		<p>c) The second part should contain the Price and other commercial terms. The price should be quoted F-O-R, Bangalore. This part should be superscribed with “Tender Enquiry Reference and Date” and “Price and Commercial Bid for Solidworks Premium 2021 Software”</p> <p>d) Both these parts should be submitted with “Tender Enquiry Reference and Date” and “Solidworks Premium 2021 Software”.</p> <p>e) Break up cost for optional features and optional equipment/accessories are to be clearly indicated in the price & commercial bid.</p>
9.	Payment Terms	<p>80% after successful installation and integration to the existing network server</p> <p>20% after completion of comprehensive training of the software</p>
10.	GST Payment	<p>GST payments will be subjected to GST regulations. Payment will be made only for the basic value of the invoice and the balance GST amount will be cleared only after submission of GSTR1 report</p>
11.	Notes	<p>a) Late offers will not be entertained or accepted.</p> <p>b) All the items in the tender Specifications are to be filled in. Incomplete Tender Specifications may not be considered.</p> <p>c) The Director of the Institute reserves the right to reject any tender /all tenders without assigning any reason.</p>
12.	General Terms and Conditions	<p>a) Only software OEM & authorized resellers / distributors can participate in the tender. Resellers / distributors need to furnish authorization certificate from the OEM, along with the technical bid.</p> <p>b) Software to be supplied on DVD-ROM /USB Media.</p> <p>c) The softwares supplied should be latest version with perpetual license and floating type (network license). All modules supplied shall be network version, scalable (both additional users & software). The licenses to be supplied must be installed on the existing Solidworks Network License (SNL) at CMTI. The SNL key will be shared on request.</p> <p>d) The application softwares have to be installed on the existing server & workstation network system at CMTI.</p> <p>e) There should not be any limitation on number of client installations for the software.</p> <p>f) Warranty, maintenance and support for 1 year is required.</p> <p>g) Supplier shall be responsible for ensuring compatibility of</p>

		<p>supplied software with existing CMTI server/workstation hardware & OS. The software shall also be compatible with the existing storage and backup system at CMTI.</p> <p>h) All modules of the system necessary for the implementation and operation of the total system shall be quoted. Additional modules of software & hardware, not mentioned in the specification, but required for the comprehensive functioning of the total system, should be quoted.</p> <p>i) Breakup cost for each and every component of the system shall be furnished with detailed specifications and catalogues.</p> <p>j) Comprehensive and full-fledged Corporate training to be provided for 05days on Solidworks Premium 2021 or latest, at CMTI, in phases, after installation & commissioning.</p> <p>k) Quote should be accompanied by a compliance statement sheet indicating compliance / non-compliance item-wise. In case of compliance, name of module supporting the functionality the type & number of licenses quoted and the number of users who can access it to be clearly mentioned. Absence of comprehensive compliance statement will lead to disqualification of vendor.</p> <p>l) Vendor to obtain clarity on all issues / points in the specifications prior to forwarding quotation.</p>
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TECHNICAL SPECIFICATIONS FOR
SOLID WORKS PREMIUM 2021 SOFTWARE
Annexure - II

TECHNICAL SPECIFICATIONS FOR
Solid works Premium 2021 Software

S.N.	Specifications	Quantity	CMTI Remarks	Vendor's Remarks
1.	<p>Solidworks Premium 2021 or latest Modules / Features:</p> <p>a) Part and Assembly Modeling</p> <ul style="list-style-type: none"> • 3D solid Modeling • conceptual design • direct model geometry modification • large assembly design • advanced surface design • sheet metal design • weldments • plastic part design • mold design • interface check and collision detection • assembly structure planning: solid works tree house <p>b) 2D Drawings</p> <ul style="list-style-type: none"> • automatic drawing view creation • automatic drawing view updates • drafting standards: ANSI, ISO, DIN, JIS, BSI, GOST, GB • manual and automated dimensioning and tolerance • annotations and symbols • automatic bill of materials (BOM), exploded views, balloon notes • hole tables, weld tables, pipe bend tables, cut lists • sheet metal bend notes <p>c) Design Reuse and Validation</p> <ul style="list-style-type: none"> • Find your data (solid works search) • Design automation (drive works express) • Part and assembly configurations • Reuse 2D and 3D CAD data 	05	<p style="text-align: center;">Essential</p> <p>(Complete list of modules & functionalities to be provided.)</p>	

S.N.	Specifications	Quantity	CMTI Remarks	Vendor's Remarks
	<ul style="list-style-type: none"> • 3D CAD models from suppliers (3D content central.com) d) Animations and Rendering <ul style="list-style-type: none"> • move assembly with motors and by dragging components CAD videos • 3D walk through / fly through e) Collaborate and Share CAD Data <ul style="list-style-type: none"> • import and export over 30 CAD formats • 2D DXF ®/ DWG® Data • 2D to 3D CAD conversion tools • convert 3D parts to sheet metal f) Basic Analysis Tools <ul style="list-style-type: none"> • part environmental impact analysis • part structural analysis • basic flow analysis g) Design for Manufacturing <ul style="list-style-type: none"> • rules based manufacturability checks (DFMXpress) h) CAD Libraries <ul style="list-style-type: none"> • over one million standard fasteners and components (toolbox) • beam, bearing and cam design wizard • automatic assembly of fasteners and components i) Advanced Design for Manufacturing <ul style="list-style-type: none"> • geometry check for CAM • thickness analysis j) Design for Cost/Quoting (SolidWorks Costing) <ul style="list-style-type: none"> • compare manufacturing costs • automated manufacturing cost estimation • customizable manufacturing settings • output cost report k) Advance CAD File Import <ul style="list-style-type: none"> • automatic and interactive feature recognition and conversion l) Productivity Tools <ul style="list-style-type: none"> • automatic task scheduling and batch processing • copy feature info into other features (feature paint) • find and replace in drawing m) Advanced Photorealistic Rendering (Photo View 360) 			

S.N.	Specifications	Quantity	CMTI Remarks	Vendor's Remarks
	<ul style="list-style-type: none"> • photo quality images and animations • control camera view, lighting, materials and textures n) eDrawings® Professional <ul style="list-style-type: none"> • create and publish eDrawings files • enable markup of eDrawings files • exploded views support for eDrawings files • view assembly animations • password protect intellectual property o) ECAD / MCAD Collaboration CircuitWorks <ul style="list-style-type: none"> • import / export of Printed Circuit Board (PCB) Designs • two-way data exchange: ECAD to MCAD - MCAD to ECAD • IDF, ProStep (IDF) or PADS (*.ASC) • PCB outlines, keep-out areas, maximum heights p) Scan to 3D Reverse Engineering q) Automated Tolerance Stack up Analysis Tolanalyst <ul style="list-style-type: none"> • worst case and RSS maximum / minimum • identify highest contributing tolerances r) Motion Analysis <ul style="list-style-type: none"> • kinematic and dynamic analysis • inputs: forces, springs, dampers, gravity, contact, bushings • outputs: displacements, velocities, accelerations, body loads, joint forces s) Structural Part and Assembly Analysis <ul style="list-style-type: none"> • inputs: variable forces / pressures, full restraint sets, connectors, gravity, contact, materials • outputs: factor of safety, stress, displacement, strain • view / publish animations, graphs, reports t) Routing of Pipes and Tubes <ul style="list-style-type: none"> • create detailed piping systems • create flexible or rigid tubing lines • customizable library of piping components • output tube bend data for manufacturing • cut length calculations automated for BOM • minimum bend radius check for tubes • output of PCF files for ISOGEN ® piping software 			

S.N.	Specifications	Quantity	CMTI Remarks	Vendor's Remarks
	u) Routing of Electrical Cabling and Wiring Harness <ul style="list-style-type: none"> • create detailed electrical cable and wiring harnesses • run rigid or flexible electrical conduit segments • conduit and ribbon cable • automated harness flattening for manufacturing • BOM and wire cut list • automatic routing using imported "from-to" connection data v) All other modules / functionalities with premium version			
2.	Perpetual validity of license		Essential	
3.	1 year warranty & Support a) The software should have a standard warranty and technical support of 12 months from the date of installation, commissioning & acceptance at CMTI. b) The access to online learning resources shall be made available free of cost during the warranty period.		Essential	
4.	Migration of network license manager & licenses Migration of network license manager & licenses across hardware (In case of change of hosting server hardware) should be carried out free of cost during and even after warranty period.		Essential	
5.	Training Supplier to provide comprehensive training for 5 days on SOLIDWORKS premium (in two phases) on usage, operation & maintenance of software at CMTI at free of cost within 1 month of installation. a) Solidworks Modeling <ol style="list-style-type: none"> i. 1st phase: 3 days on Basic Modeling (Introductory to intermediate) ii. 2nd phase: 2 days on Advanced Modeling 		Essential	
6.	Acceptance The capabilities of the software must be proved by supplier as per CMTI Acceptance		Essential	

S.N.	Specifications	Quantity	CMTI Remarks	Vendor's Remarks
	Criteria at CMTI after installation, free of cost			
7.	Installation Installation & commissioning of software must be done at CMTI to the existing Solidworks network license (License serial number will be shared on request), at free of cost		Essential	
8.	Documents / Manuals - 1 set of hard copy in English a) Operation manual b) Training manual		Essential	
9.	Service Support The supplier should provide online service support for 1 year, at free of cost. Please indicate the shortest turnaround time for making the software license operational from the time of reporting license corrupt or PC loaded with above software corrupt		Essential	
10.	Certification on Solidworks software (CSWA / CSWP/CSWE)		Please Specify	

Annexure - III:**ACCEPTANCE CRITERIA FOR SOLIDWORKSPREMIUM2021 SOFTWARE**

S.N.	Item	Description
1.	Solidworks premium2021 software	All modules, number of licenses, features & functionalities listed in technical specifications should be functioning with Windows Server OS 2019(Server) and Windows 10 OS (Client)and demonstrated. The software should be compatible with the server & workstation computers hardware mentioned in the Annexure - IV.
2.	Warranty	1 year warranty &Support a) The software should have a standard warranty and technical support of 12 months from the date of installation, commissioning & acceptance at CMTI. b) The access to online learning resources shall be made available free of cost during the warranty period.
3.	Migration of network license manager & licenses	Migration of network license manager & licenses across hardware (In case of change of hosting server hardware) should be carried out free of cost during and even after warranty period.
4.	Installation	Installation & commissioning of software must be done at CMTI to the existing Solidworks network license (License serial number will be shared on request), at free of cost
5.	Training	Supplier to provide comprehensive training for 5 days on SOLIDWORKS premium (in two phases) on usage, operation & maintenance of software at CMTI at free of cost within 1 month of installation.
6.	Documents / Manuals	Documents / Manuals - 1 set of hard copy in English a) Operation manual b) Training manual
7.	Service Support	The supplier should provide online service support for 1 year, at free of cost.

Note:

The software will be finally accepted based on the compliance in above acceptance criteria. Hence, the bidder has to go through the acceptance criteria and convey their acceptance unambiguously. The compliance statement against all points of tender to be submitted along with technical bid.

SCHEDULE OF REQUIREMENTS

TO BE FILLED BY BIDDER AND ENCLOSED WITH THE TECHNO-COMMERCIAL BID

Brief Description of Goods and Services	Quantity
Solidworks Premium 2021 software [Technical Specifications and Other Details as per Bidding Documents]	05 Nos.
Place of Delivery and Installation	CMTI - Central Manufacturing Technology Institute, Tumkur Road, Bengaluru - 560022, Karnataka, India
Period of Delivery shall count from	< TO BE FILLED BY BIDDER>
Delivery Period [Goods to be delivered in one lot at final destination CMTI - Central Manufacturing Technology Institute, Tumkur Road, Bengaluru, Karnataka, India-560022]	< TO BE FILLED BY BIDDER>
Time frame required for installation of the software etc. after receipt at CMTI	< TO BE FILLED BY BIDDER>
Payment Terms	80% after successful installation and integration to the existing network server 20% after completion of comprehensive training of the software

NOTE: The party has to offer their product/equipment strictly based on the specifications asked in the Bidding Documents

Annexure - IV:**TECHNICAL SPECIFICATIONS OF SERVER**

SL.	Description	Configuration
1.	Model	<ul style="list-style-type: none"> ▪ HPE Proliant DL360 Gen10 Server with 1U Gen10 SFF Easy install rail kit ▪ HP Single Unit (Rack) Packaging ▪ HP DL360 Standard CPU Cooling Solution
2.	Chassis	1U
3.	Processor	2 x Intel Xeon-Silver 4215 (2.5GHz/8-core/85W)with heat sink
4.	Cache	11 MB
5.	Data Transfer Interface	8 x SFF -SAS/SATA
6.	Graphic Subsystem	Integrated
7.	Memory Type	32GB (2 x 16GB) PC4-2666V-R Smart Kit
8.	Memory Slots	24 DIMM slot
9.	Storage Controller	P408i-a Controller with 96W battery
10.	Hard Disk Drive	4 x 1.8TB SAS 10K SFF SC 512e DS HDD
11.	Network Controller	HPE 1Gb Ethernet 4-Port 331i Adapter
12.	Network Interface	4x1GbE NIC (embedded)
13.	Expansion Slots	2 PCIe slots (1 x16 FH / 1 x8 LP)
14.	Power Supply	2 x 500W
15.	Management	HPE iLO with Intelligent Provisioning (standard)
16.	Rail Kit	Rail kit to support for HP Rack
17.	Fans	7 x Standard Fans (2 processors)
18.	Form Factor	1U Rack
19.	Operating System	MS Windows Server 2019 OEM Pack

TECHNICAL SPECIFICATIONS OF WORKSTATION COMPUTER

SL.	Description	Configuration
1.	Model	HP IDS Z6 G4 Workstation with country kit INDIA HP Single Unit (Tower) Packaging
2.	Processor	Intel Xeon 6148 2.4GHz 20C
3.	Cache	27.50 MB
4.	Cooling Solution	HP Z6 G4 Memory Cooling Solution
5.	Chassis	HP Z6 G4 90 1000W APJ Chassis
6.	Graphic Subsystem	NVIDIA Quadro RTX 4000 8GB 3DP+USBcGraphics
7.	Memory Type	128GB (2 x 64 GB) DDR4 2933 DIMM ECC Registered 2CPU Memory APJ
8.	Memory Slots	4 DDR4 Memory slots
9.	Hard Disk Drive	2TB (2x1TB) 7200RPM SATA 6GB/s 3.5" HDD
10.	Network Interface	Integrated Gigabit network Connection
11.	Internal Audio	Integrated Audio
12.	Keyboard	HP Business wired Slim Keyboard USB
13.	Mouse	HP Optical Wired Scroll Mouse USB
14.	Monitor	<ul style="list-style-type: none"> ▪ HP 24" Monitor (Bezel less / Thin Bezel), height adjustable - 2 Nos ▪ Dual monitor setup support
15.	Operating System	Windows 10 Professional Plus 64 bit
16.	Microsoft office	Microsoft office 2019