

L I M I T E D T E N D E R
N O T I C E

Tender Ref. No. PUR-11/2/2020-COMM_GP-SMR_CHE-SMR CHE DEPTT-10391
Date 24-12-2020
Tender Due Date 08-01-2021

To

Dear Sir,

The Purchase Officer, SAMEER-Centre for Electromagnetics invites sealed tender for the supply of materials / Services as per details given below:

Sl. No	Description of Items
1	Procurement of PCB Design Software Tool with Advanced Features - Perpetual Floating License (As per Specification attached)

Terms and Conditions:

1. Price quoted should be on the basis of Destination delivery at Perungudi Campus, Chennai 600 096.
2. Delivery / Completion period should be clearly indicated.
3. Excise Duty, GST Percentage should be clearly indicated if admissible. Not eligible for FORM 'C' / 'D'
4. WE ARE EXEMPTED FROM EXCISE DUTY
5. Quotation should be valid for atleast 60 days from the date of opening of the tender
6. Quotation should be sent in sealed envelope super scribing the tender reference number and tender due date.
YOUR OFFER WILL NOT BE CONSIDERED IF OUR TENDER REFERENCE NO. &
TENDER DUE DATE IS NOT MENTIONED ON COVER.
7. Late tenders will not be accepted under any circumstances
8. We reserve the right to accept or reject any quotations fully or partly without assigning any reasons.
9. For Further Clarification Please Contact 044-22544061 / 22544020 Email: purchase.chn.sameer@nic.in
10. Unsolicited bids shall not be considered


(P. Ramamoorthi)
Head - Administration

Contd.,



CIT Campus, 2nd Cross Road, Taramani, Chennai - 600 113, India

सी.आई.टी. परिसर, दूसरा क्रॉस रोड, तारामणी चेन्नै - ६०० ११३.

दूरभाषन : Tel : +91-44-22541583 / 1817 / 2106 / 2452 फैक्स / Fax : 2254 1938 / 1424

वेबसाइट : www.sameer.org.in

PCB Design Software Tool Specification

S.No	Feature of PCB Design Tool	Description
1	Schematic	Create, Open, View and print schematic documents and libraries components. Edit schematic file, symbol. Hierarchy design feature for multiple sch project should be available
2	PCB	Viewer Open, view and print PCB documents. Additionally view and navigate 3D PCBs.
3	PCB - Layout	High productivity PCB layout editor, support for customizable polygons, board cut-outs, real-time Design Rule checking, design re-use, auto-dimensioning, with intuitive and efficient user interface.
4	PCB- Interactive & Guided Routing	Interactive routing, guided routing (Push and Shove, Hugging and Auto-Complete modes), differential pairs, interactive/ auto placement, pin/part swapping, track glossing, and obstacle avoidance during drag operations.
5	Active Route	Multi-net routing function, applied to the specific nets or connections selected by the designer. Designer to interactively define a route path or Guide. Bus nets Length Matching.
6	Controlled Impedance routing	Impedance should be calculated the for single and differential pair nets in multi layer PCB design.
7	Via Stitching and Shielding	Should be available for multilayer PCB Layout.
8	Auto Re-route on Component Move	Dragging components should allow a re-route and gloss without breaking connections.
9	Native 3D PCB Viewing and Editing	A realistic and 3D rendered view of the board, includes MCAD-ECAD support with direct linking for STEP models and real-time clearance check, examination of location and presentation of text strings, view configurations for both 2D and 3D, editing of board shape and component models in 3D, 3D measurements for all primitives and texture mapping of 2D/3D PCB models. Inspect each individual 3D layer within a single layer mode, and even performing measurements directly within 3D.
10	Cross Probe	Schematic to PCB Layout window and PCB Layout to Schematic window.
11	Import / Export	Support to import and/or export of designs and library data created in OrCAD, Allegro, Expedition, PADS, Altium Designer, Cadstar, Eagle, P-CAD, Protel, KiCAD and more.
12	Simulation - Mixed Signal	SPICE 3F5/XSPICE mixed-signal circuit simulation (with PSpice compatibility).
13	Signal Integrity — Schematic Level	Pre-layout signal integrity analysis for PCB parameters
14	Signal Integrity — Layout Level	Post-layout signal integrity analysis support for reflection and crosstalk analysis.

15	Advanced Layer Stack Management	Ability to define multiple, complex layer stacks in a single design with different layer stack sections in different regions of the PCB, should allow the embedded components and rigid-flex arrangements.
16	Support for Rigid-Flex Design	Complete system for designing flex and rigid-flex PCBs. The ability to define and characterize multiple PCB bending lines in a design. Full 3D, folded and unfolded viewing and clearance design rule checking. Should export folded or partially folded 3D STEP models of a board for MCAD collaboration.
17	CAM File (Gerber, ODB++ & etc) — Importer and Editor	Import CAM and mechanical files. Panelize, NC drill file, DRC, export CAM and mechanical files, Netlist extraction, import and reverse engineering.
18	Draftsman Documentation	Should create a complete documentation for fabrication and assembly in a design workspace such as linked PCB design and documentation data, customizable templates, intuitive markup tools, and customizable drawing views.
19	Integrated Library	All component information (symbol, footprint, parameter, simulation model, 3D model...) should be available in a single, portable file. File should be moved /relocated. Library should allow to create SCH symbol, foot print and 3D model for components.
20	Design Refactoring	Restructuring an existing design without changing the functionality of that design.
21	Schematic Defined PCB Design rules	Define layout design rules constraints in schematic as per hardware requirements for the single net or the schematic circuit section by placing the directives
22	PDF creation	A single PDF for either a selected document(s) or the entire project, including schematics, PCB, Bill Of Materials & Assembly Variants. PDF bookmarks are created for each net and component in the design.
23	Multi Board Design	Design should include multiple, interconnected printed circuit boards. Bringing these boards together inside the enclosure and ensuring they correctly connect to each other. Provision to check the connection between the Mo boards in both electrical and mechanical the nets been assigned correctly on each connector and connector orientation. Plug-in boards fittings and all of the connected boards fit into the enclosure.
24	Panelization in PCB editor	Must create the PCB Panel using a source PCB file. Design changes made on a source board should reflects in the panel
25	MCAD Enclosure mapping and auto collision detection	Visualize and edit a board in 3D to see how it will look in the real world. Integrate mechanical design data seamlessly into a workflow, then perform real-time clearance checking for components and mechanical enclosures. Virtually prototype complex design elements like rigid-flex sections that may have otherwise required a

		physical board prototype. Keep a entire design team on the same page with a managed ECAD to MCAD change process for board shape, component placement, and mounting holes. Intelligently link 3D component bodies with a electrical component data together, creating a unified component model that accurately reflects design intent from both design domains.
26	License type	Perpectual floating license
27	Maintanence and support	1 year
28	Installation and demo	On site installation and demonstration.