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Tender notice no : CBM/AB/Equipment/2019-20/Quote1 dated 20th June 2019

Sealed quotations, along with all supporting documents, are invited from interested vendors for the following items with the specifications given below under the Indo-FAIR Co-ordination Centre project **CBM-MUCH**

Sl. No.	Item Description	Quantity
1	**GEM-Detector readout PCB for Station-1** 8-layered Sector PCB size 1070mm X485mm, 3.2mm thick, Overlapped top copper sample layout design with reduced size is attached along with in Annexure-I. This PCB contains both normal and blind plated through holes(PTH). These PTHs are about 4000 Nos with 2000Nos of each type (normal and blind PTH). Material FR4, Tg170. • **SURFACE FINISH : ENIG** • **PCB has about 2000 blind vias** • **Top copper have no green mask. File is also not there in the GERBER bundle** • **All vias should be gas sealed with metal and planarization to be done afterwards** • **GERBER data will be provided on demand for evaluation** **ENIG finish in all the above mentioned PCB's (where applicable.) Minimum Track to track and Pad to Pad and track to pad will be 4-mil Minimum finished PTH size will be 20mil**	1

Note:
1) **Final sizes along with GERBER data will be provided at the time of manufacturing. Approximate GERBER data of reduced sizes will be provided on demand for evaluation purposes.**
2) **As this is one system therefor quotation for the individual items will not be accepted.**

The sealed quotations must reach the undersigned not later than 1st July 2019, 4pm. The quotations will be opened within 2/3 days from the last date of submission. Quotations received after the deadline will not be considered.

Abhijit Bhattacharya 20/7/19
(ABHIJIT BHATTACHARYYA)
Professor, Department of Physics
Principal Investigator, CBM-MUCH

Professor & Head of the Department of Physics
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Annexure I

Below is the reduced sized layout of Top copper and the inner copper planes. There are other similar layers. This is just to show the complexity of the work.

1070mm

485mm
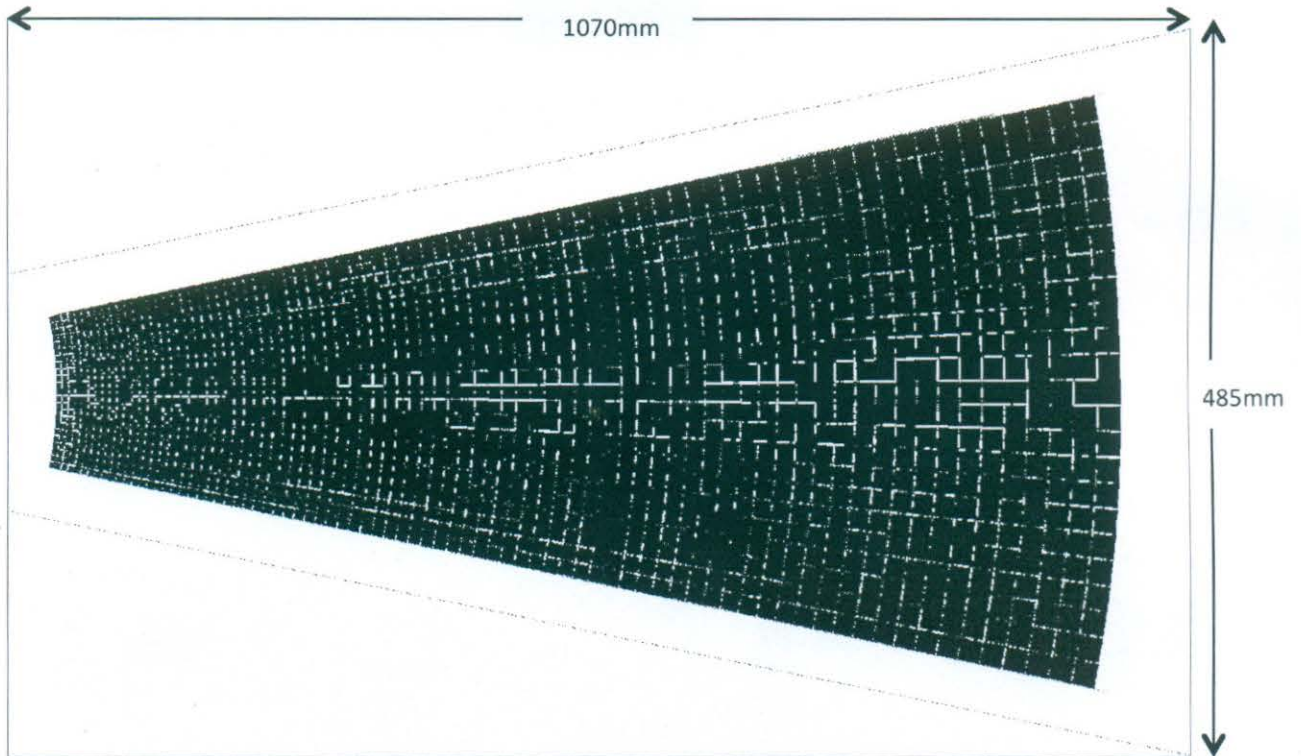
Top copper and board edge

1070mm

485mm

Abhijit Bhattacharya
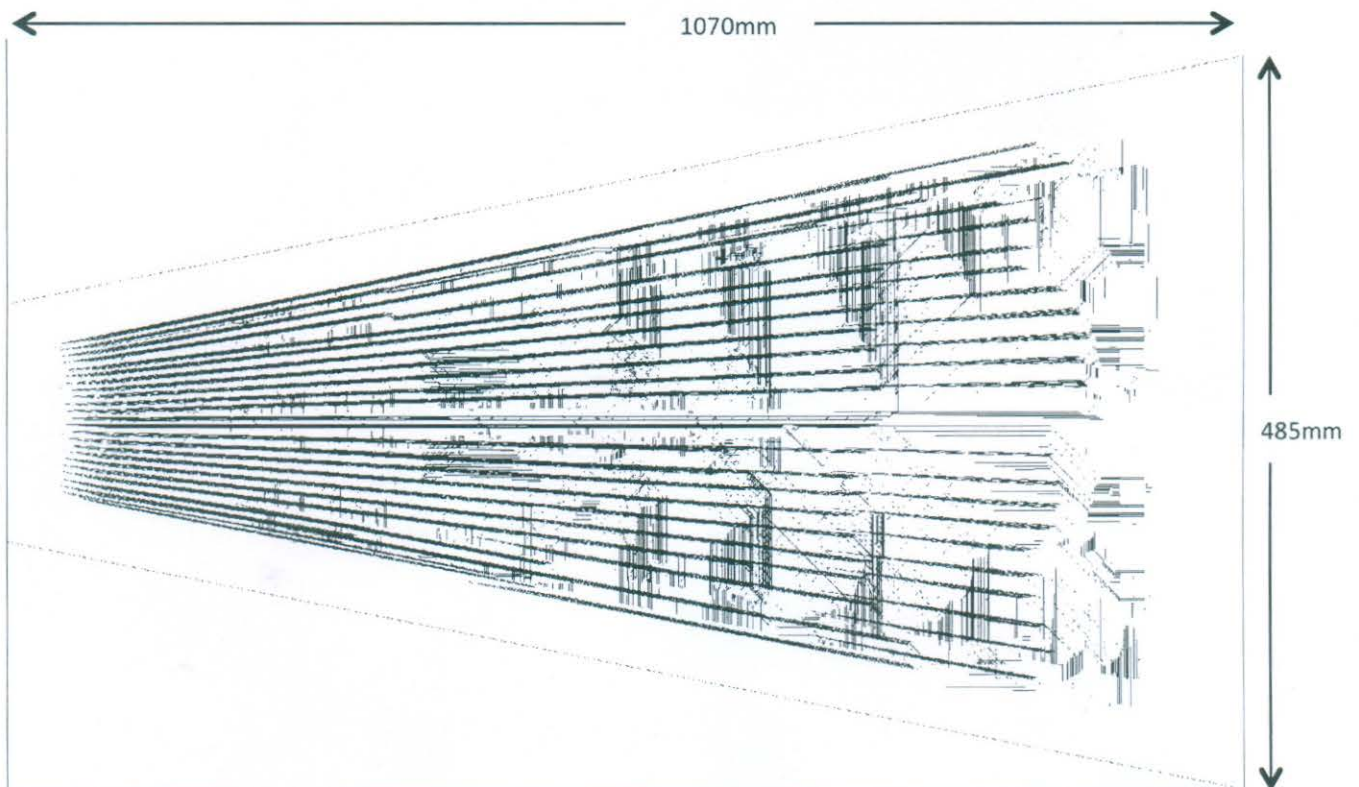
Inner layer except top and bottom copper