

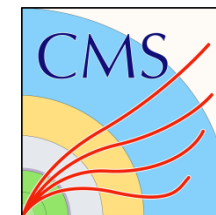
Pakistan site status for GE2/1 production

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Detector Assembly available items



Ser. no	Tools
0	Clean room class 1000
1	Clips for QC2 fast
2	Megger
3	Particle cleaning roller and waste pads
4	Wiping pad
5	Digital torque screw driver for stack stretching with torque Centi N.m range
6	Mechanical fixing torque screw driver to tight the pullouts and readout board with torque 1.2Nm
7	Vacuum cleaner
8	Tape, which has less sticky material
9	Soldering Iron and wires
10	Screw drivers, X10, X6
11	Knife cutter
12	Araldite 2000
13	3mm bit to make threads
14	Clamps, soft hammer
15	Plexiglas sheet (will be different for GE2/1 than GE1/1)
16	Ethanol
18	Assembly Jig (will be different for GE2/1 than GE1/1)

Tools for assembly

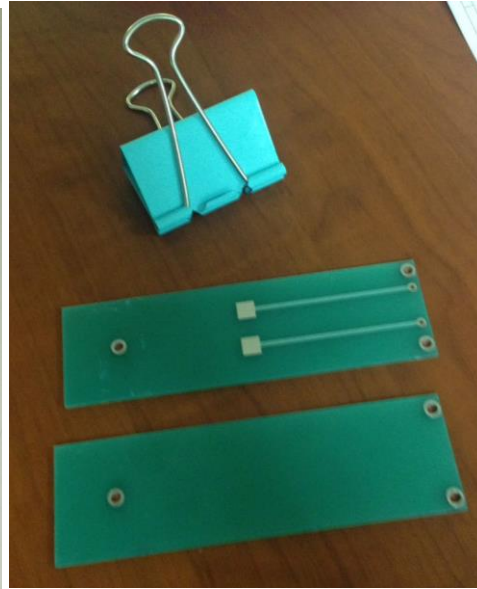
Araldite 2000



DIGITAL TORQUE SCREW DRIVER



QC2 clip



PARTICLE CLEANING ROLLER AND WASHER



PULL OUTS alignment tool

CLEANING BRUSHES AND M3 TAP

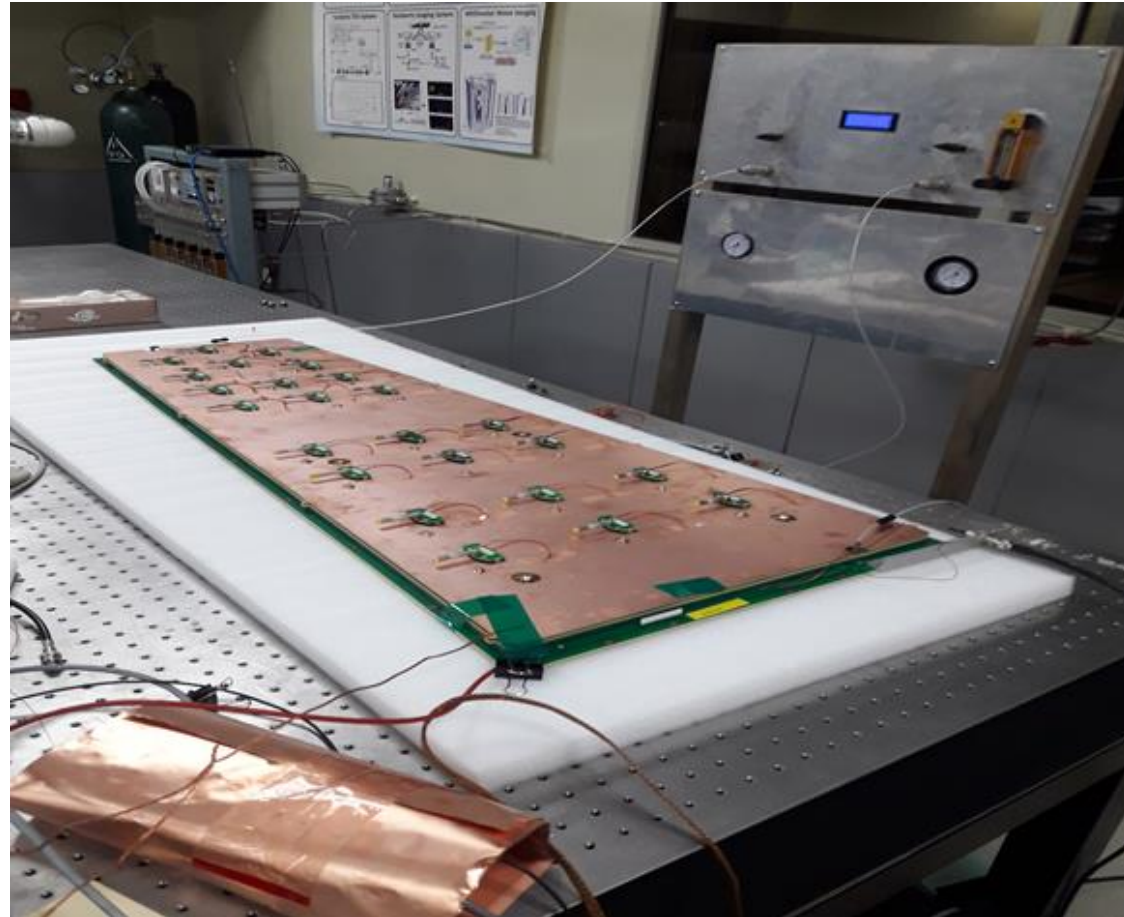




QC3 setup

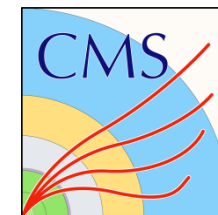


- Pressure sensor
- Readout
- Piping, tools etc...





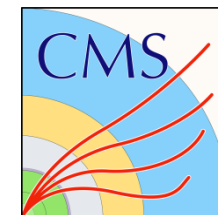
QC4 setup status available items



Ser.no	Item
1	Scalar, CAEN N1145
2	Oscilloscope; Tektronix TDS 3054B Agilent MSC06104A (1 GHz)
3	50 Ohm Terminators x24; CERN SCEM 09.46.91.100.2
4	HV filter X2 and stuff
5	Panasonic-to-LEMO adapters x24
6	HV filter X2 and stuff
7	Grounding stuff (Copper ribbon, clamps, etc...)
8	Soldering Iron, Weller WMRP
9	Multimeter, Fluke RMS 187
10	Charge sensitive preamplifier, 142PC
11	Shaping amplifier, ORTEC 474
12	Linear Discriminator, ORTEC 935
13	HV Supply (5 kV; 1mA), CAEN N1470
14	Dual timer 2255B
15	FIFO



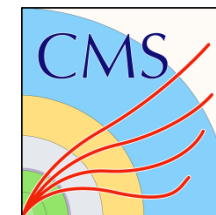
QC5_ Effective Gain status available items



Ser. no.	Item
1	X-rays source, (Ag target)
2	Cu-box with safety switches
3	Oscilloscope; Tektronix TDS 3054B, Agilent MSC06104A (1 GHz)
4	Pico-ammeter, Keithley 6517B
5	Dedicated DAQ computer
6	Scalar, CAEN N1145
7	Charge sensitive preamplifier, 142PC
8	Shaping amplifier, ORTEC 474
9	Linear Discriminator, ORTEC 935
10	HV Supply (5 kV; 1mA), CAEN N1470
11	Dual timer 2255B
12	FIFO



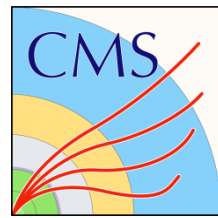
QC5-reponse uniformity status available items



Pos.	Quantity	Unit	SCEM	Comment
1	15	PC	07.89.00.220.2 CABLE HDMI D-A 5m	
2	15	PC	07.89.00.211.5 CABLE IDC MASTER-SLAVE 200	
3	14	PC	07.89.00.005.9 RD51 APV25 HYBRID MASTER	
4	14	PC	07.89.00.010.2 RD51 APV25 HYBRID SLAVE	
5	1	PC	07.89.00.020.0 RD51-SR1 Minicrate A	
6	2	PC	07.89.00.105.6 RD51 SRS ADC CARD	
7	2	PC	07.89.00.101.0 RD51 SRS FEC V6 CARD	
8	2	PC	07.89.00.115.4 TRANSCEIVER 1.25GBD SFP 3.3V	



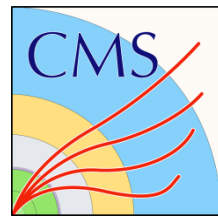
Man power for the project



Physicists	4
Engineers	1
Technicians	4



Conclusions



- Fully commissioned site (June-2018)
- Successfully assembled and tested GE1/1 Chambers
- Trained Manpower available (Physicist, Engineer, technicians)
- Committed to participate in GE2/1 assembly and testing