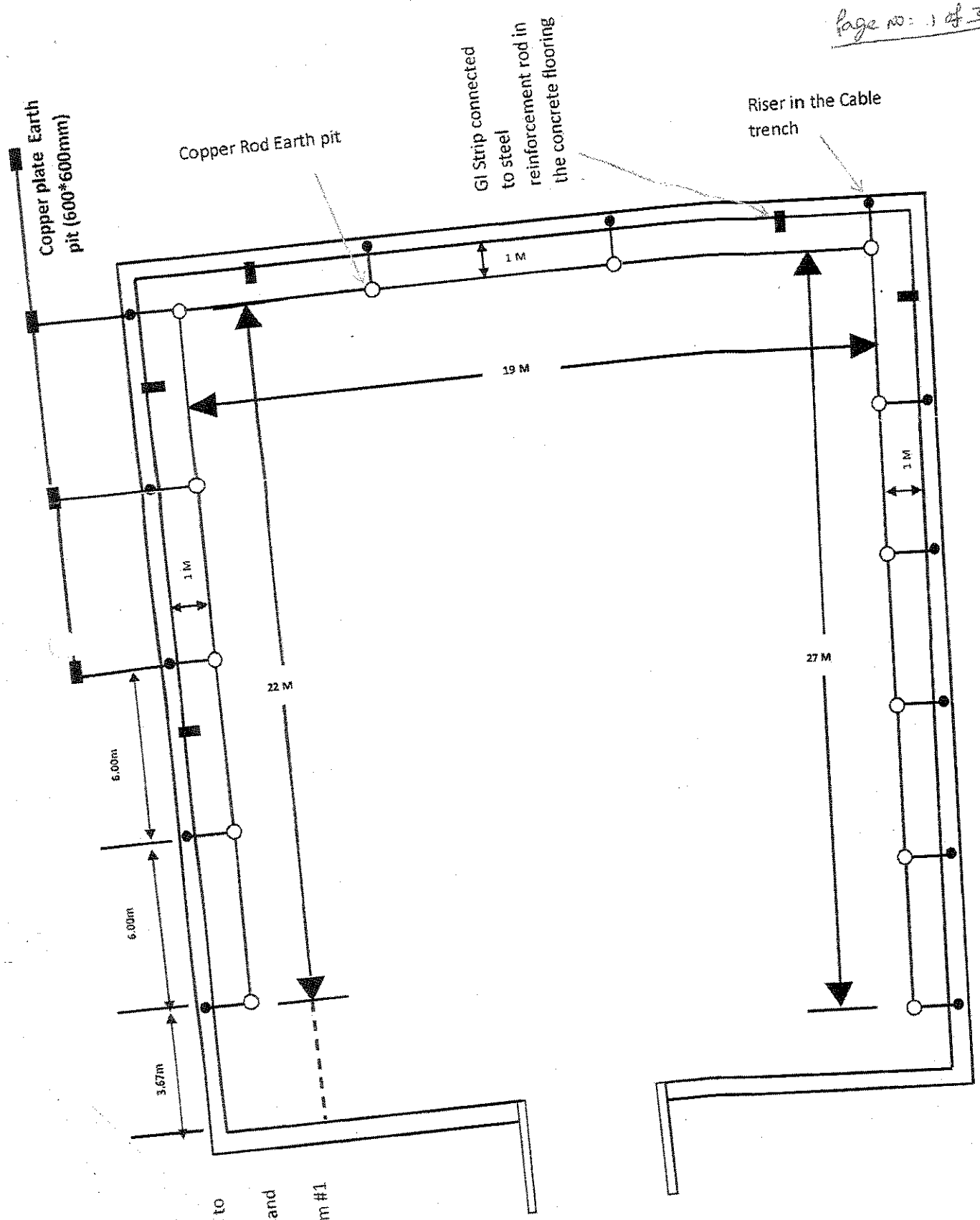
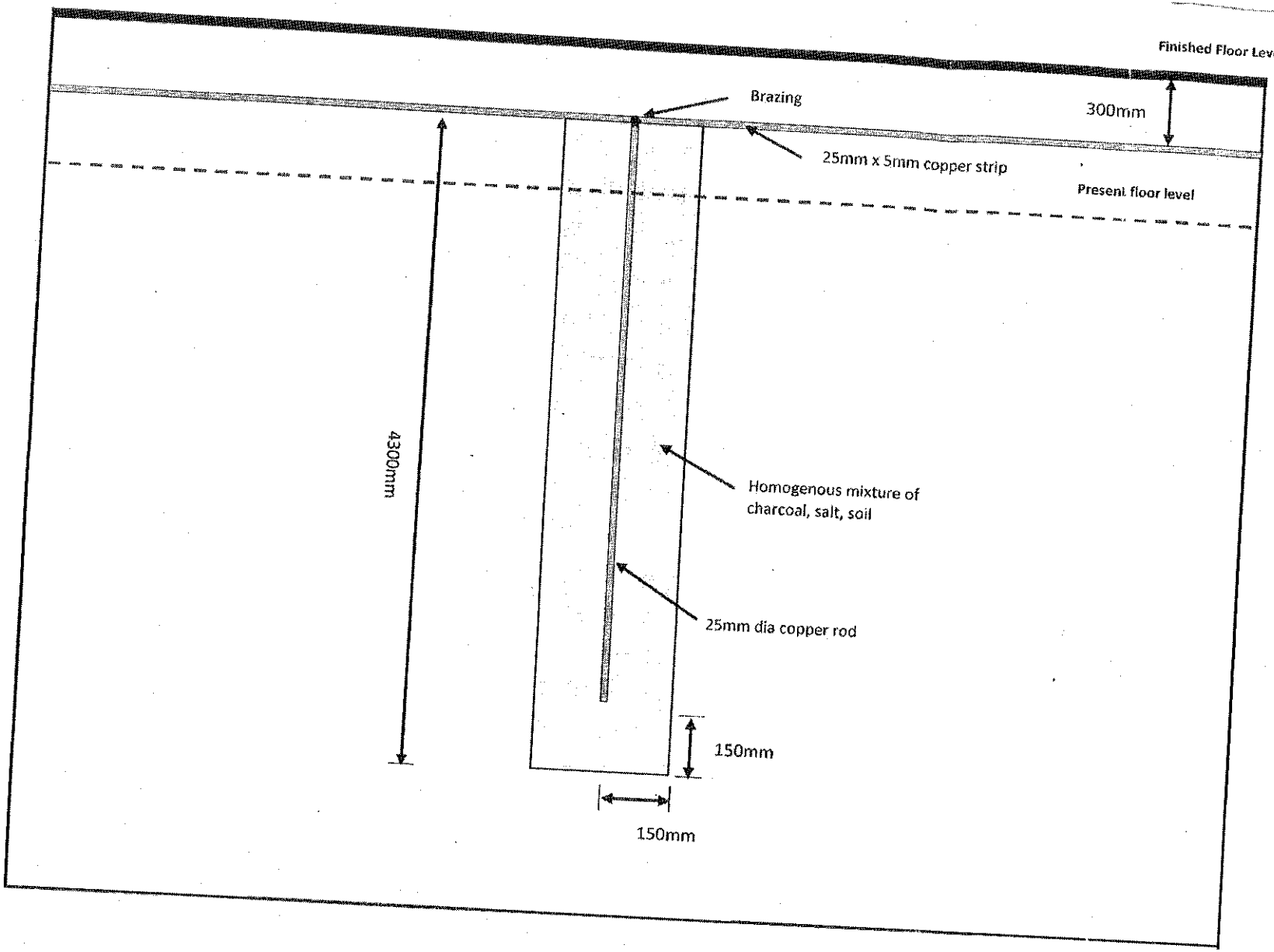
Annexure - I



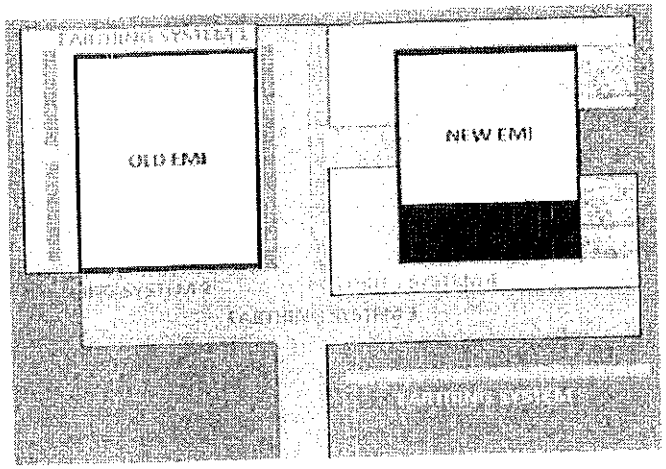
Connection between every Earth pit inside the lab and the Earth strip shall made by brazing and with suitable clamp with bolt and nut

...p to
... in
...ion lab and
.../EMC lab
...ocated in room #1

Annexure - I


Finished Floor Level
Brazing
300mm
25mm x 5mm copper strip
Present floor level
4300mm
Homogenous mixture of charcoal, salt, soil
25mm dia copper rod
150mm
150mm

	Earthing System 1	Earthing System 2	Earthing System 3	Earthing System 4	Earthing System 5	Earthing System 6
Plate Earthing						
No. of Plate Electrodes	4	4	8	10	10	
Length (m)	3	3	3	3	3	
Size of plate (thickness 3mm)	0.6m * 0.6m	0.6m * 0.6m	0.6m * 0.6m	0.6m * 0.6m	0.6m * 0.6m	
Rod Earthing						
No. of rod electrodes						10
Length (m)						3
Diameter						25mm
Strip earthing (40mm * 8mm)						
Depth (m)	1	1	1	1	1	1
Length (m)	18	18	42	54	54	54



NOTE:

1)Three earthing system shall be used for Old Lab and Three earthing system shall be used for New lab.

2)The earthing system shall be of copper plate of size 600mm x 600mm with a thickness of 3mm. This shall be installed in a pit of size 900mm x 900mm and backfilled with homogenous mixture of charcoal and salt. Earth pit construction shall be as per IS 3043:2018.

3)Suitable Bi-metallic joints shall be used where two dissimilar metals are connected.

4)The risers/joints shall be brazed.

5) Spacing between the earth pit : 6m