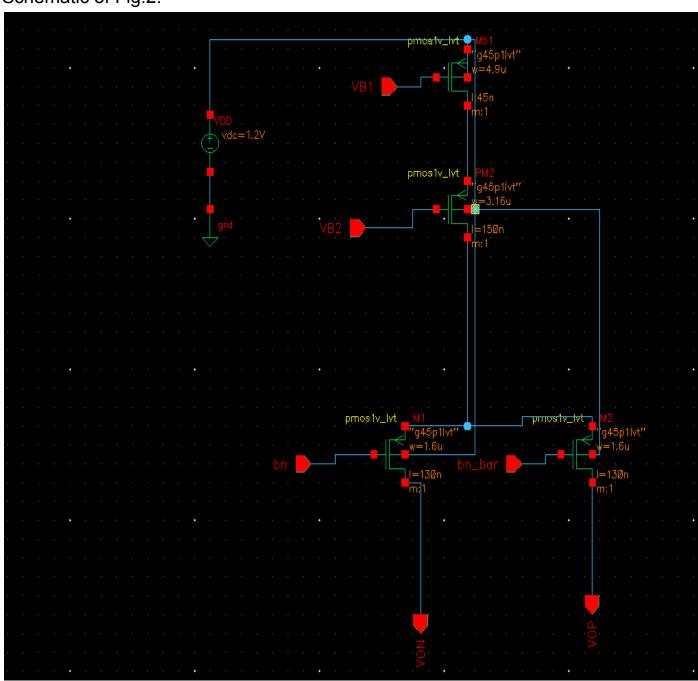
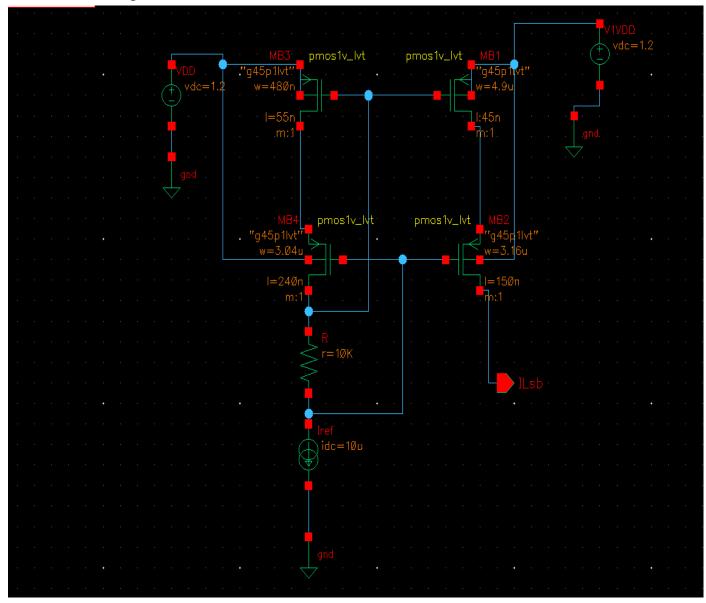
EE-719 Project Part-2 Venkateswar Reddy Murikinati(213070088)

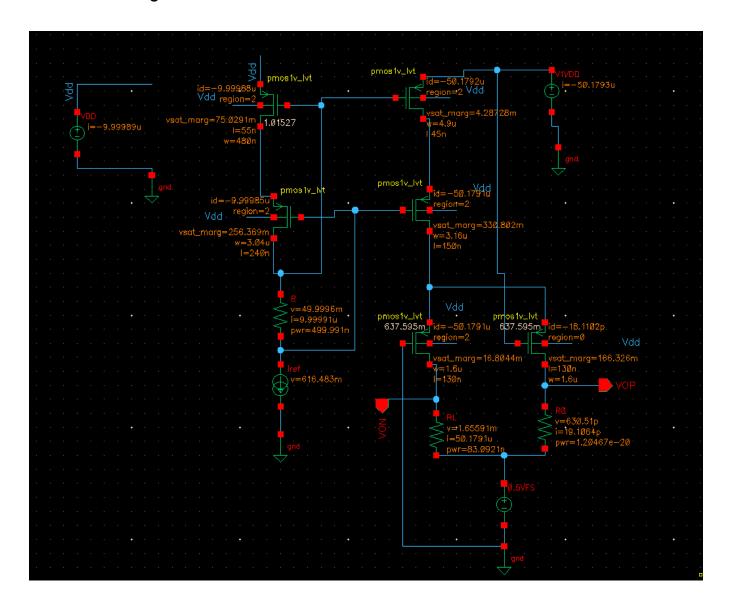
2a) Schematic of Fig.2:



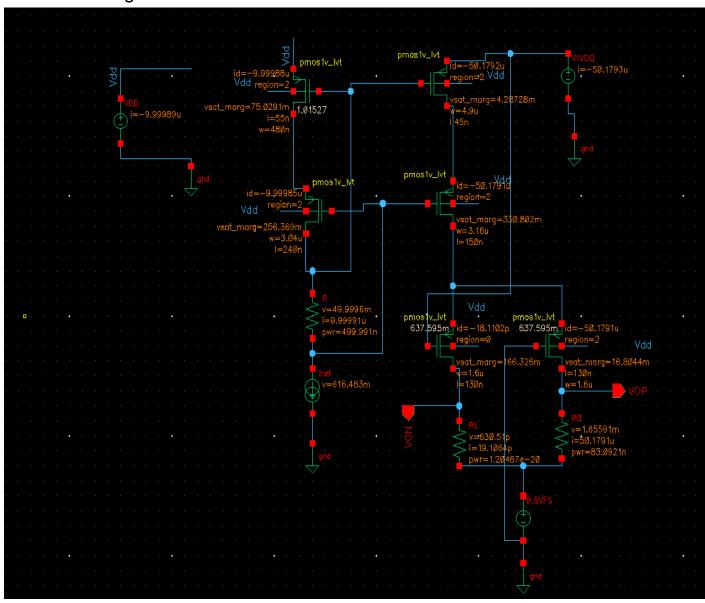
Schematic of fig.3:



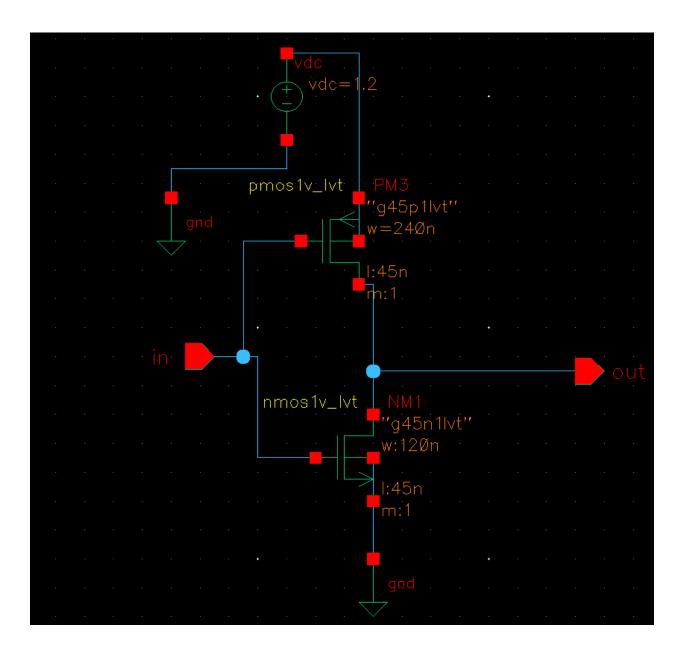
Schematic of fig.6 for bn=0:



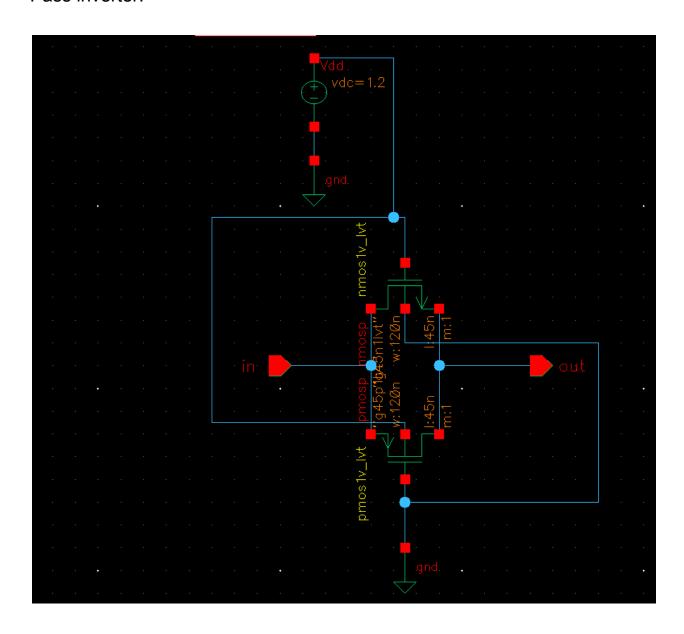
Schematic of fig.6 for bn=1:



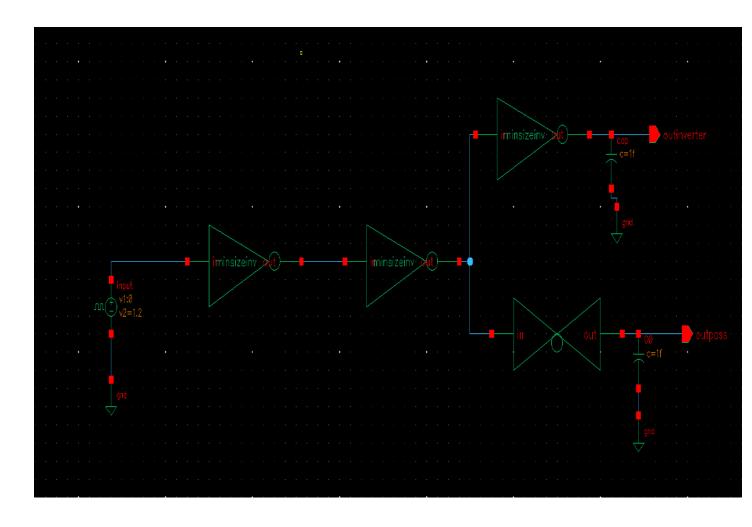
2b) Min. size inverter:



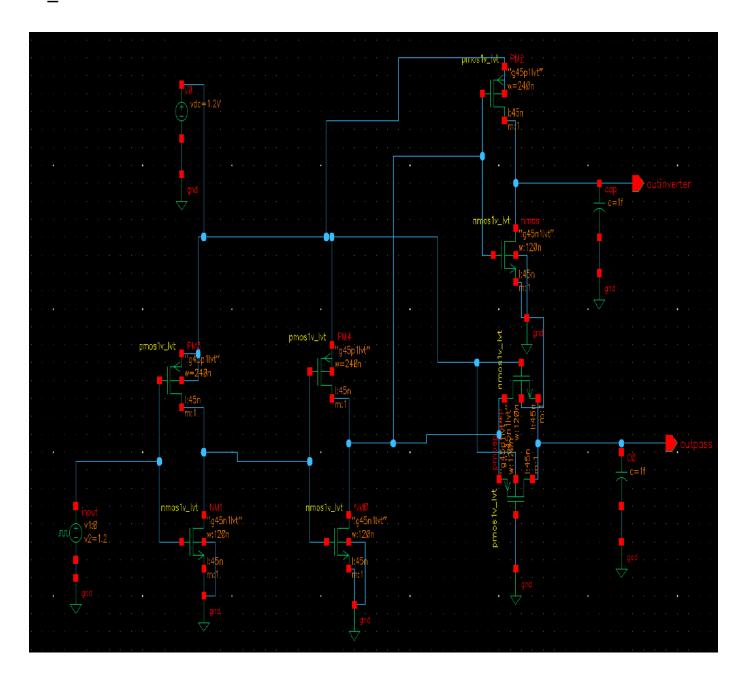
Pass inverter:

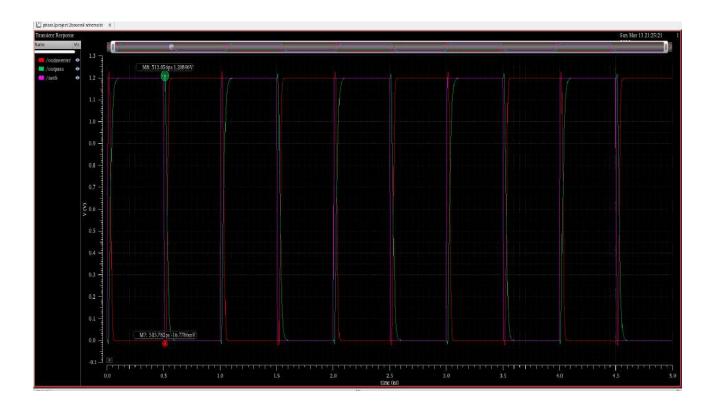


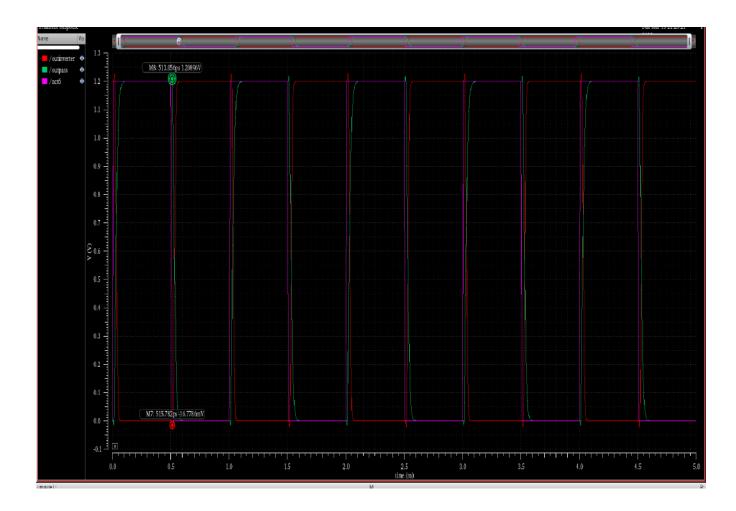
Pass transistor setup:

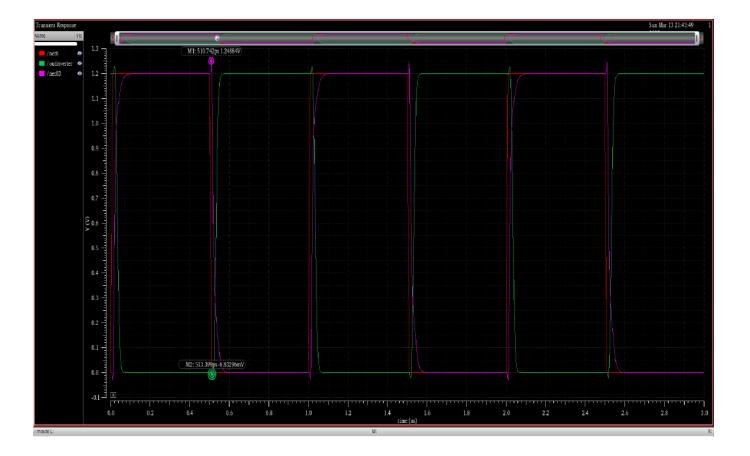


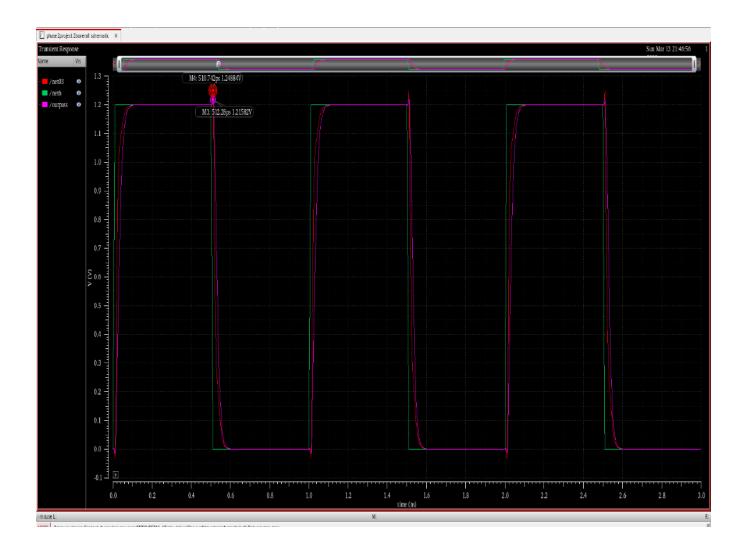
2b_schematic:











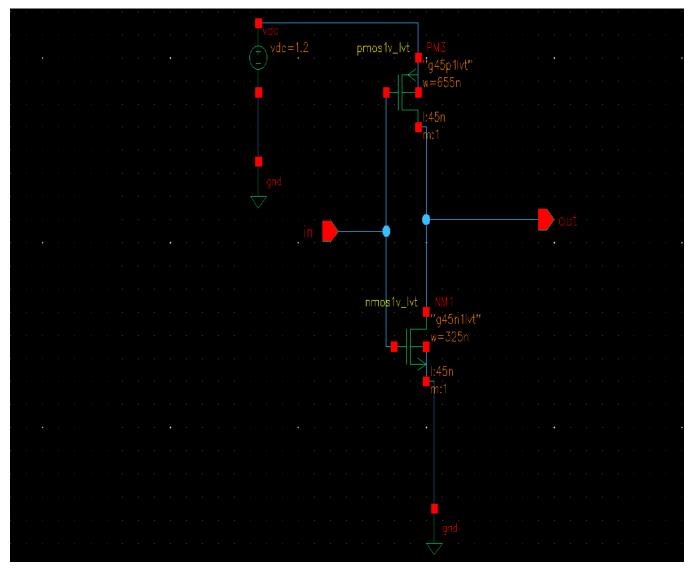
min. size inverser

L= 45n

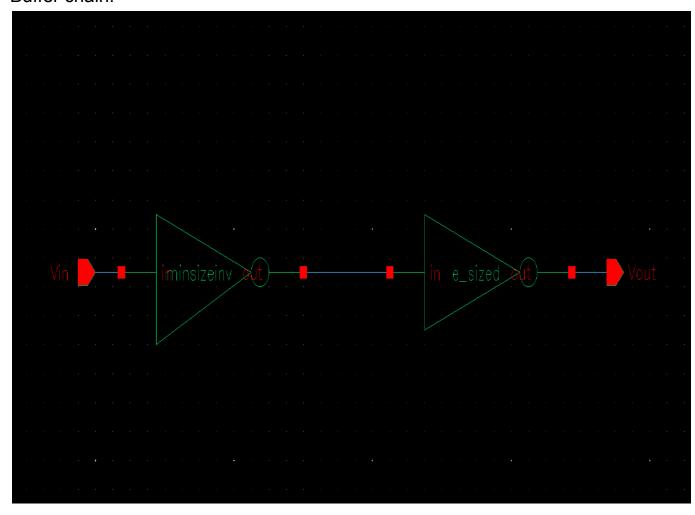
nwoz W=22407 W=1200 L=454

bwa? mwas W=1201 W=1201 L= 45h LE USN

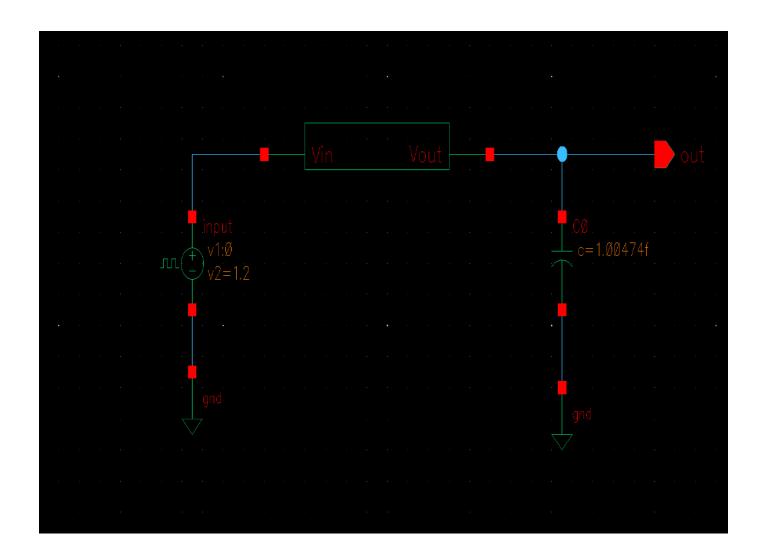
2c) Scaled inverter

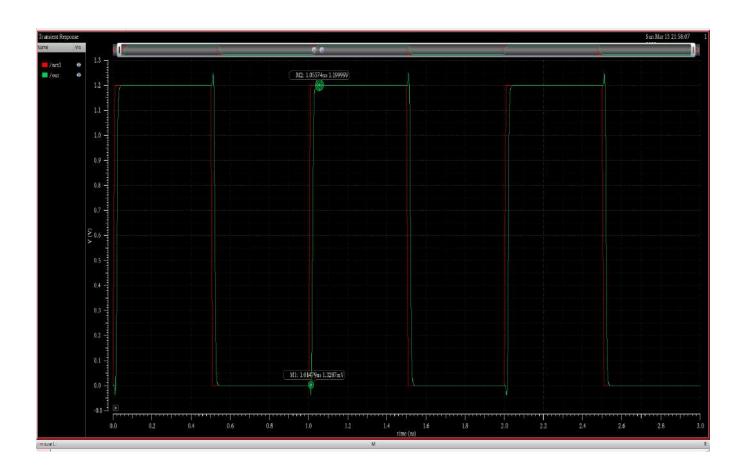


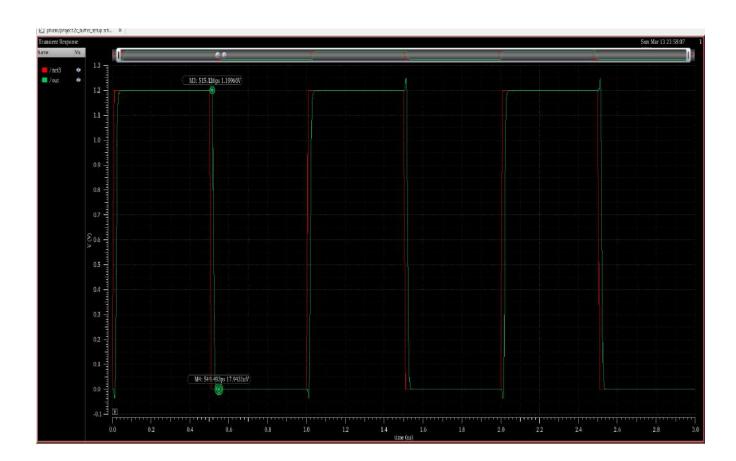
Buffer chain:



Test bench:

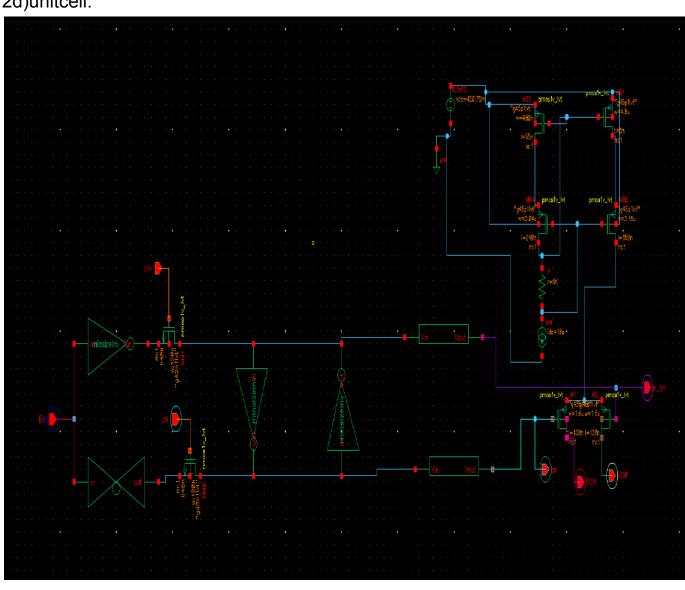




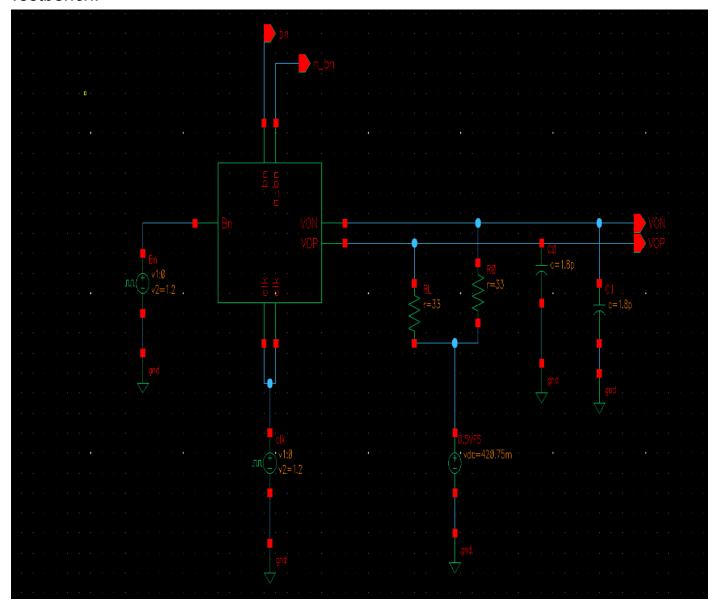


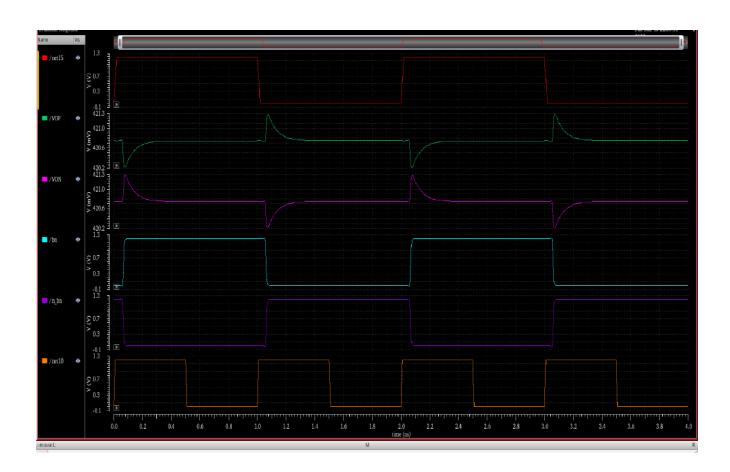
n= fr(ci) N(B) C & Area or M, Cc & Area or M, ci a see of min sized inverser n= fr ((1.6×10-6×120×10-18) = 2.552 : \$00. Or Styps = 2

2d)unitcell:

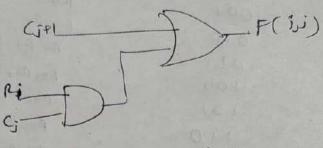


Testbench:





(2)



F(isi) = GH + RIXG

working of column decoder,

B<7:57 3 198

Co i's connected to voo : Co is always on According to given code

BC7:57 Columns ache

Co.

000

Co.

011

Co,C1,C2,C3

100

Co,C1,C2,C3,C4

Co,C1,C2,C3,C4

100

Co,C1,C2,C3,C4

Co,C1,C2,C3,C4

Co,C1,C2,C3,C4,C5,C4

110

Co,C1,C2,C3,C4,C5,C6

110

Co,C1,C2,C3,C4,C5,C6

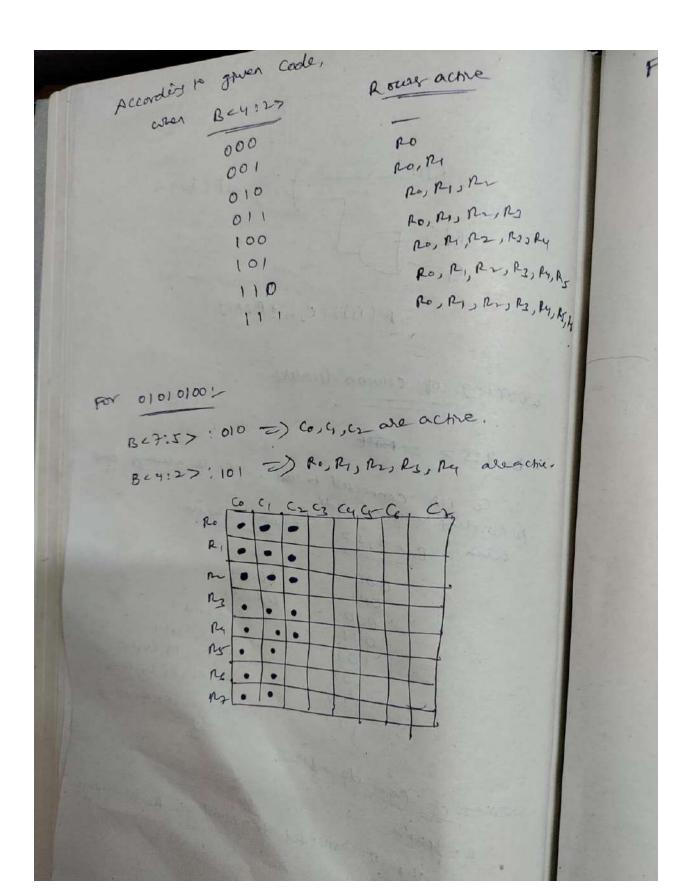
111

Co,C1,C2,C3,C4,C5,C6

woming of now decoder;

B < 4:2>

.; Ry is connected to ground .. Ro is always



For 01110100:-BC7:57:011 => Co, C1, C2, C3 are active
BC412>:101 => Ro, R1, R2, R3, My are active 4, 4, 66 67 Co C2 Ro PI RS , AS , AS Rr B Ry RS Re M