Exponential Trend # (Non-linear Trend) y=abr a, b = constant log Y = log (abx) logmn=logm Hogn logm=nlogm logy = log a + log bx logy = log a + Xlogb (2) Straight line trend y = A + BxY = log Y XY = AX + BX 2 $A = log a \Rightarrow a = antilog A$ X = xB=logb > b=antilog B EXY = AEX+BEX

Y=abx (X) x=X=1-3000 + Year Sales 1.508 1 -3.0102 / 32 2006 47 2007 1.6721 -1.6731 65 (2008) O 1.8129 92 2009 1.7638 1.9638 190 2010 2.2787 4,5574 4 Ex= 0 EY=9,2376 EXY=1.8389 Ex=10 1.8389 = (antilog A a = antilog (1.84652) [a= 70.203] B = log b => b = antilog (0.18389) => b= 1.5772 1=(70.73)(1.5272)