Table 3 Construction of selection indices in 30 chilli genotypes

Selection index	Expected genetic gain	Relative efficiency over direct selection (%)
I_5=0.8890x5	1.14	100
I_1=0.7837x1	0.55	48.51
I_2=0.8853x2	0.58	50.91
I_3=0.9548x3	1.31	114.69
I_4=0.8890x4	0.84	73.52
I_{12}=0.7078x1+0.8014x2	0.68	59.84
I_{13}=0.7845x1+0.9233x3	1.29	113.17
I_{14}=0.5136x1+0.8857x4	1.11	97.29
I_{15}=2.1870x1+0.8879x5	1.3	114.16
I_{23}=0.8963x2+0.9898x3	1.55	135.96
I_{24}=0.7491x2+0.8895x4	1.03	90.70
I_{25}=4.4896x2+0.8760x5	1.44	125.81
I_{34}=0.3128x3+0.8855x4	1.42	124.72
I_{35}=2.3450x3+0.8812x5	2.1	183.91
I_{45}=0.8629x4+0.8925x5	1.83	160.07
I_{123}=0.7227x1+0.8214x2+0.9619x3	1.48	129.52
I_{124}=1.4420x1+0.8305x2+0.8861x4	1.19	104.52
I_{125}=3.3320x1+5.0712x2+0.8728x5	1.51	132.28
I_{134}=1.4099x1+0.4141x3+0.8830x4	1.48	130.06
I_{135}=2.7310x1+2.9381x3+0.8772x5	2.11	184.81
I_{145}=3.1893x1+0.8372x4+0.8971x5	1.99	174.26
I_{234}= 0.8947x2+0.3483x3+0.8855x4	1.66	145.32
I_{235}= 4.4305x2+1.9659x3+0.8712x5	2.35	205.89
I_{245}=4.4790x2+0.9049x4+0.8707x5	2.03	178.00
I_{345}=1.5114x3+0.8813x4+0.8852x5	2.46	215.51
I_{1234}=1.374x1+0.9434x2+0.4302x3+0.8831x4	1.66	145.31
I_{1235}=3.8557x1+5.0746x2+2.8598x3+0.8625x5	2.32	203.37
I_{1245}= 4.1372x1+5.1203x2+0.8762x4+0.8731x5	2.14	187.24
I_{1345}=3.3204x1+2.2290x3+0.8774x4+0.8810x5	2.51	220.19
I_{2345}=4.6650x2+2.6264x3+0.9619x4+0.8482x5	2.68	235.04
I_{12345}=4.5383x1+5.5173x2+3.9688x3+0.9749x4+ 0.8331x5	2.7	236.47

Note: x1=Primary branches/plant, x2= Fruit length (cm), x3= Fruit weight (gm), x4= Fruits/plant, x5= Yield/plant (gm)