

## Annexure

### Regression Analysis: SALES VOLUME (L)\* versus VEHICLE ... ULATION\*

#### Analysis of Variance

Source	DF	Adj SS	Adj MS	F-Value	P-Value
Regression	1	1.3485	1.3485	7.24	0.115
VEHICLE POPULATION*	1	1.3485	1.3485	7.24	0.115
Error	2	0.3726	0.1863		
Total	3	1.7211			

#### Model Summary

S	R-sq	R-sq(adj)	R-sq(pred)
0.431606	78.35%	67.53%	0.00%

#### Coefficients

Term	Coef	SE Coef	T-Value	P-Value	VIF
Constant	-3.81	2.24	-1.70	0.232	
VEHICLE POPULATION*	1.092	0.406	2.69	0.115	1.00

#### Regression Equation

$$\text{SALES VOLUME (L)*} = -3.81 + 1.092 \text{ VEHICLE POPULATION*}$$

### Regression Analysis: SALES VOLUME (L)\* versus GDP (g)

#### Analysis of Variance

Source	DF	Adj SS	Adj MS	F-Value	P-Value
Regression	1	0.5314	0.5314	0.89	0.444
GDP (g)	1	0.5314	0.5314	0.89	0.444
Error	2	1.1897	0.5948		
Total	3	1.7211			

#### Model Summary

S	R-sq	R-sq(adj)	R-sq(pred)
0.771260	30.88%	0.00%	0.00%

#### Coefficients

Term	Coef	SE Coef	T-Value	P-Value	VIF
Constant	3.15	1.08	2.91	0.100	
GDP (g)	-0.171	0.181	-0.95	0.444	1.00

#### Regression Equation

$$\text{SALES VOLUME (L)*} = 3.15 - 0.171 \text{ GDP (g)}$$

## Regression Analysis: SALES VOLUME (L)\* versus Export

### Analysis of Variance

Source	DF	Adj SS	Adj MS	F-Value	P-Value
Regression	1	1.67693	1.67693	75.98	0.013
Export	1	1.67693	1.67693	75.98	0.013
Error	2	0.04414	0.02207		
Total	3	1.72107			

### Model Summary

S	R-sq	R-sq(adj)	R-sq(pred)
0.148561	97.44%	96.15%	86.29%

### Coefficients

Term	Coef	SE Coef	T-Value	P-Value	VIF
Constant	-8.94	1.28	-6.99	0.020	
Export	8.145	0.934	8.72	0.013	1.00

### Regression Equation

$$\text{SALES VOLUME (L)*} = -8.94 + 8.145 \text{ Export}$$

## Regression Analysis: SALES VOLUME (L)\* versus VEHICLE ... N, GDP (g)

### Analysis of Variance

Source	DF	Adj SS	Adj MS	F-Value	P-Value
Regression	2	1.38108	0.69054	2.03	0.444
VEHICLE POPULATION	1	0.84969	0.84969	2.50	0.359
GDP (g)	1	0.03257	0.03257	0.10	0.809
Error	1	0.34000	0.34000		
Total	3	1.72107			

### Model Summary

S	R-sq	R-sq(adj)	R-sq(pred)
0.583093	80.25%	40.74%	0.00%

### Coefficients

Term	Coef	SE Coef	T-Value	P-Value	VIF
Constant	-3.01	3.98	-0.76	0.588	
VEHICLE POPULATION	0.996	0.630	1.58	0.359	1.32
GDP (g)	-0.049	0.158	-0.31	0.809	1.32

### Regression Equation

$$\text{SALES VOLUME (L)*} = -3.01 + 0.996 \text{ VEHICLE POPULATION} - 0.049 \text{ GDP (g)}$$

## Regression Analysis: SALES VOLUME (L)\* versus VEHICLE ... (g), Export

### Analysis of Variance

Source	DF	Adj SS	Adj MS	F-Value	P-Value
Regression	3	1.72107	0.57369	*	*
VEHICLE POPULATION	1	0.01218	0.01218	*	*
GDP (g)	1	0.02511	0.02511	*	*
Export	1	0.34000	0.34000	*	*
Error	0	0.00000	*		
Total	3	1.72107			

### Model Summary

S	R-sq	R-sq(adj)	R-sq(pred)
*	100.00%	*	*

### Coefficients

Term	SE		T-Value	P-Value	VIF
	Coef	Coef			
Constant	-10.04	*	*	*	
VEHICLE POPULATION	0.1931	*	*	*	3.46
GDP (g)	0.05061	*	*	*	1.85
Export	7.963	*	*	*	4.71

### Regression Equation

SALES VOLUME (L)\* = -10.04 + 0.1931 VEHICLE POPULATION + 0.05061 GDP (g) + 7.963 Export

## Regression Analysis: SALES VOLUME (L)\* versus VEHICLE ... ON, Export

### Analysis of Variance

Source	DF	Adj SS	Adj MS	F-Value	P-Value
Regression	2	1.69597	0.84798	33.77	0.121
VEHICLE POPULATION	1	0.01903	0.01903	0.76	0.544
Export	1	0.34746	0.34746	13.84	0.167
Error	1	0.02511	0.02511		
Total	3	1.72108			

### Model Summary

S	R-sq	R-sq(adj)	R-sq(pred)
0.158455	98.54%	95.62%	0.00%

### Coefficients

Term	Coef	SE Coef	T-Value	P-Value	VIF
Constant	-8.42	1.49	-5.66	0.111	
VEHICLE POPULATION	0.238	0.274	0.87	0.544	3.37
Export	6.81	1.83	3.72	0.167	3.37

### Regression Equation

$$\text{SALES VOLUME (L)*} = -8.42 + 0.238 \text{ VEHICLE POPULATION} + 6.81 \text{ Export}$$

### Fits and Diagnostics for Unusual Observations

Obs	SALES VOLUME (L)*	Fit	Resid	Std Resid	X
4	2.810	2.813	-0.003	-1.00	X

X Unusual X

## Regression Analysis: SALES VOLUME (L)\* versus GDP (g), Export

### Analysis of Variance

Source	DF	Adj SS	Adj MS	F-Value	P-Value
Regression	2	1.70889	0.85445	70.15	0.084
GDP (g)	1	0.03196	0.03196	2.62	0.352
Export	1	1.17750	1.17750	96.67	0.065
Error	1	0.01218	0.01218		
Total	3	1.72108			

### Model Summary

S	R-sq	R-sq(adj)	R-sq(pred)
0.110365	99.29%	97.88%	0.00%

### Coefficients

Term	Coef	SE Coef	T-Value	P-Value	VIF
Constant	-10.63	1.41	-7.54	0.084	
GDP (g)	0.0563	0.0348	1.62	0.352	1.80
Export	9.149	0.931	9.83	0.065	1.80

### Regression Equation

$$\text{SALES VOLUME (L)*} = -10.63 + 0.0563 \text{ GDP (g)} + 9.149 \text{ Export}$$

### Fits and Diagnostics for Unusual Observations

Obs	SALES VOLUME (L)*	Fit	Resid	Std Resid
1	1.3200	1.3211	-0.0011	-1.00 X

X Unusual X