

GET

```
FILE= 'C:\Users\USER\Desktop\Master Susie Final\Final - Performance & Procurement\SPSS Performance R02.sav' .
FREQUENCIES VARIABLES=Jobtitle Department Experience Projduration ContractSum Buildingtypes Refurbishment ReasonRefu
rb Procurement C
      ashflow Communicate Decisionmake VariationOrder Discrepancies Materialprice SkillExperien
/ORDER=ANALYSIS.
```

Frequencies

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Statistics

	Job Title	Department	Experience in Construction Industry	Project Duration	Project Contract Value	Types of Building	Types of Refurbishment Works	Reason to carry out Refurbishment Works
N	Valid Missing	368 0	368 0	368 0	368 0	368 0	368 0	368 0

Statistics

	Types of Procurement Systems	Cash Flow and Finance	Communication with Consultants and Client	Decision making by Client	Frequent Change Order By Client	Insufficient/Discrepancies in Contract Document	Material price escalation	Contractor Skill, Expertise and Experience
N	Valid Missing	368 0	368 0	368 0	368 0	368 0	368 0	368 0

Frequency Table

Job Title

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid				
Non Executive	27	7.3	7.3	7.3
Executive	61	16.6	16.6	23.9
Senior Executive	57	15.5	15.5	39.4
Manager	162	44.0	44.0	83.4
Director	59	16.0	16.0	99.5
Others	2	.5	.5	100.0
Total	368	100.0	100.0	

Department

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid				
Contract	109	29.6	29.6	29.6
Operation	100	27.2	27.2	56.8
Technical	53	14.4	14.4	71.2
Surveyor	1	.3	.3	71.5
Safety	4	1.1	1.1	72.6
Finance	14	3.8	3.8	76.4
Others	87	23.6	23.6	100.0
Total	368	100.0	100.0	

Experience in Construction Industry

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid				
Less Than 5 years	86	23.4	23.4	23.4
5 to 10 years	49	13.3	13.3	36.7
10 to 15 years	64	17.4	17.4	54.1
More than 15 years	169	45.9	45.9	100.0
Total	368	100.0	100.0	

Project Duration

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid				
Less than 2 years	204	55.4	55.4	55.4
2-3 years	131	35.6	35.6	91.0
3-4 years	28	7.6	7.6	98.6
More than 4 years	5	1.4	1.4	100.0
Total	368	100.0	100.0	

Project Contract Value

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid				
500,000-1,000,000	53	14.4	14.4	14.4
1,000,001-2,000,000	94	25.5	25.5	39.9
2,000,001-3,00,000	50	13.6	13.6	53.5
More than 3,000,000	171	46.5	46.5	100.0
Total	368	100.0	100.0	

Types of Building

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid				
Residential	60	16.3	16.3	16.3
Office	43	11.7	11.7	28.0
Factory	25	6.8	6.8	34.8
Hotel	53	14.4	14.4	49.2
Hospital	46	12.5	12.5	61.7
Education Institution	21	5.7	5.7	67.4
Shop	58	15.8	15.8	83.2
Others	62	16.8	16.8	100.0
Total	368	100.0	100.0	

Types of Refurbishment Works

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid				
Corrective	16	4.3	4.3	4.3
Altering	34	9.2	9.2	13.6
Optimizing	47	12.8	12.8	26.4
Pleasure	22	6.0	6.0	32.3
Opportunity	5	1.4	1.4	33.7
Adaption	6	1.6	1.6	35.3
Conversion	46	12.5	12.5	47.8
Retrofitting	13	3.5	3.5	51.4
Renovation	108	29.3	29.3	80.7
Modernization	71	19.3	19.3	100.0
Total	368	100.0	100.0	

Reason to carry out Refurbishment Works

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid				
Ageing Building	76	20.7	20.7	20.7
Changes of Technology Use	17	4.6	4.6	25.3
Economic Change	14	3.8	3.8	29.1
Limited vacant for new development	66	17.9	17.9	47.0
Demand for modern living	95	25.8	25.8	72.8
Government policy	36	9.8	9.8	82.6
Change in Building used	55	14.9	14.9	97.6
Others	9	2.4	2.4	100.0
Total	368	100.0	100.0	

Types of Procurement Systems

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid				
Design and Build	147	39.9	39.9	39.9
Traditional	200	54.3	54.3	94.3
Turnkey System	4	1.1	1.1	95.4
Management Procurement	16	4.3	4.3	99.7
Built-Operate-Transfer BOT	1	.3	.3	100.0
Total	368	100.0	100.0	

Cash Flow and Finance

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid				
Very Small Extend	45	12.2	12.2	12.2
Small Extend	97	26.4	26.4	38.6
Extend	148	40.2	40.2	78.8
Large Extend	58	15.8	15.8	94.6
Very Large Extend	20	5.4	5.4	100.0
Total	368	100.0	100.0	

Communication with Consultants and Client

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid				
Very small extend	20	5.4	5.4	5.4
Small Extend	73	19.8	19.8	25.3
Extend	153	41.6	41.6	66.8
Large Extend	93	25.3	25.3	92.1
Very Large Extend	29	7.9	7.9	100.0
Total	368	100.0	100.0	

Decision making by Client

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	22	6.0	6.0	6.0
Very Small Extend	96	26.1	26.1	32.1
Small Extend	117	31.8	31.8	63.9
Large Extend	104	28.3	28.3	92.1
Very Large Extend	29	7.9	7.9	100.0
Total	368	100.0	100.0	

Frequent Change Order By Client

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	33	9.0	9.0	9.0
Very Small Extend	78	21.2	21.2	30.2
Small Extend	98	26.6	26.6	56.8
Large Extend	100	27.2	27.2	84.0
Very Large Extend	59	16.0	16.0	100.0
Total	368	100.0	100.0	

Insufficient/Discrepancies in Contract Document

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	26	7.1	7.1	7.1
Very Small Extend	96	26.1	26.1	33.2
Small Extend	147	39.9	39.9	73.1
Large Extend	70	19.0	19.0	92.1
Very Large Extend	29	7.9	7.9	100.0
Total	368	100.0	100.0	

Material price escalation

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid				
Very Small Extend	30	8.2	8.2	8.2
Small Extend	60	16.3	16.3	24.5
Extend	176	47.8	47.8	72.3
Large Extend	90	24.5	24.5	96.7
Very Large Extend	12	3.3	3.3	100.0
Total	368	100.0	100.0	

Contractor Skill, Eperitise and Experience

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid				
Very Small Extend	40	10.9	10.9	10.9
Small Extend	76	20.7	20.7	31.5
Extend	106	28.8	28.8	60.3
Large Extend	96	26.1	26.1	86.4
Very Large Extend	50	13.6	13.6	100.0
Total	368	100.0	100.0	

MEANS TABLES=Cashflow Communicate Decisionmake VariationOrder Discrepancies Materialprice SkillExperien BY Procureme
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/CELLS MEAN COUNT STDDEV.

Means

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Case Processing Summary

	Cases								
	Included			Excluded			Total		
	N	Percent		N	Percent		N	Percent	
Cash Flow and Finance * Types of Procurement Systems	368	100.0%		0	.0%		368	100.0%	
Communication with Consultants and Client * Types of Procurement Systems	368	100.0%		0	.0%		368	100.0%	
Decision making by Client * Types of Procurement Systems	368	100.0%		0	.0%		368	100.0%	
Frequent Change Order By Client * Types of Procurement Systems	368	100.0%		0	.0%		368	100.0%	
Insufficient/Discrepancies in Contract Document * Types of Procurement Systems	368	100.0%		0	.0%		368	100.0%	
Material price escalation * Types of Procurement Systems	368	100.0%		0	.0%		368	100.0%	
Contractor Skill, Expertise and Experience * Types of Procurement Systems	368	100.0%		0	.0%		368	100.0%	

Report

Types of Procurement Systems	Cash Flow and Finance	Communicati on with Consultants and Client	Decision making by Client	Frequent Change Order By Client	Insufficient/Di screpancies in Contract Document	Material price escalation	Contractor Skill, Expertise and Experience
Design and Build Mean	3.03	3.31	3.29	3.81	3.40	3.02	3.85
Traditional Mean	2.54	2.99	2.92	2.78	2.62	2.99	2.56
Turnkey System Mean	2.75	3.00	2.75	3.25	3.00	3.00	3.00

Report

Types of Procurement Systems	Cash Flow and Finance	Communication with Consultants and Client	Decision making by Client	Frequent Change Order By Client	Insufficient/Discrepancies in Contract Document	Material price escalation	Contractor Skill, Expertise and Experience
Management Procurement Mean	3.00	2.75	2.81	2.81	2.81	2.50	3.19
Built-Operate-Transfer BOT Mean	3.00	2.00	3.00	3.00	3.00	4.00	3.00
Total Mean	2.76	3.10	3.06	3.20	2.95	2.98	3.11

MEANS TABLES=Budget BY Procurement
/CELLS MEAN COUNT STDDEV.

Means

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Case Processing Summary

	Cases					
	Included		Excluded		Total	
	N	Percent	N	Percent	N	Percent
Actual Project Cost versus Target Project Cost * Types of Procurement Systems	368	100.0%	0	.0%	368	100.0%

Report

Actual Project Cost versus Target Project Cost

Types of Procurement Systems	Mean	N	Std. Deviation
Design and Build	3.50	147	1.094
Traditional	2.55	200	1.202
Turnkey System	3.50	4	1.915

Report

Actual Project Cost versus Target Project Cost

Types of Procurement Systems	Mean	N	Std. Deviation
Management Procurement	3.75	16	1.438
Built-Operate-Transfer BOT	4.00	1	.
Total	3.00	368	1.270

MEANS TABLES=Vopercent BY Procurement
/CELLS MEAN COUNT STDDEV.

Means

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Case Processing Summary

	Cases					
	Included		Excluded		Total	
	N	Percent	N	Percent	N	Percent
Percentage of Variation Works (VO) * Types of Procurement Systems	368	100.0%	0	.0%	368	100.0%

Report

Percentage of Variation Works (VO)

Types of Procurement Systems	Mean	N	Std. Deviation
Design and Build	3.59	147	1.215
Traditional	2.26	200	1.075
Turnkey System	3.00	4	2.000

Report

Percentage of Variation Works (VO)

Types of Procurement Systems	Mean	N	Std. Deviation
Management Procurement	3.19	16	1.424
Built-Operate-Transfer BOT	3.00	1	.
Total	2.84	368	1.321

Means

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Case Processing Summary

	Cases					
	Included			Excluded		
	N	Percent	Total	N	Percent	Total
Actual Project Time versus Target Project Time * Types of Procurement Systems	368	100.0%		0	.0%	
				368	100.0%	

Report

Actual Project Time versus Target Project Time

Types of Procurement Systems	Mean	N	Std. Deviation
Design and Build Traditional	2.66	147	1.113
Turnkey System Management Procurement	2.30	200	1.186
	3.75	4	1.708
	4.19	16	1.109

Report

Actual Project Time versus Target Project Time

Types of Procurement Systems	Mean	N	Std. Deviation
Built-Operate-Transfer BOT	3.00	1	.
Total	2.54	368	1.226

MEANS TABLES=Complaints BY Procurement
/CELLS MEAN COUNT STDDEV.

Means

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Case Processing Summary

	Cases					
	Included		Excluded		Total	
	N	Percent	N	Percent	N	Percent
Average numbers of Complaint received * Types of Procurement Systems	368	100.0%	0	.0%	368	100.0%

Report

Average numbers of Complaint received

Types of Procurement Systems	Mean	N	Std. Deviation
Design and Build	3.15	147	1.392
Traditional	2.28	200	1.418
Turnkey System	4.00	4	1.826
Management Procurement	2.81	16	1.223

Report

Average numbers of Complaint received

Types of Procurement Systems	Mean	N	Std. Deviation
Built-Operate-Transfer BOT	3.00	1	.
Total	2.67	368	1.465

MEANS TABLES=NCR BY Procurement
/CELLS MEAN COUNT STDDEV.

Means

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Case Processing Summary

	Cases					
	Included			Excluded		
	N	Percent	Total	N	Percent	Total
Average numbers of Non-Compliance Records * Types of Procurement Systems	368	100.0%	368	0	.0%	100.0%

Report

Average numbers of Non-Compliance Records

Types of Procurement Systems	Mean	N	Std. Deviation
Design and Build	2.71	147	1.438
Traditional	2.27	200	1.109
Turnkey System	4.25	4	2.062
Management Procurement	2.75	16	1.438

Report

Average numbers of Non-Compliance Records

Types of Procurement Systems	Mean	N	Std. Deviation
Built-Operate-Transfer BOT	2.00	1	.
Total	2.49	368	1.302

RELIABILITY

```
/VARIABLES=Cashflow Communicate Decisionmake VariationOrder Discrepancies Materialprice SkillExperien Budget VOper  
cent Time Compla  
ints NCR  
/SCALE('ALL VARIABLES' ) ALL  
/MODEL=ALPHA.
```

Reliability

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Scale: ALL VARIABLES

Case Processing Summary

	N	%
Cases	368	100.0
Valid	368	100.0
Excluded ^a	0	.0
Total	368	100.0

a. Listwise deletion based on all variables in the procedure.

Reliability Statistics

Cronbach's Alpha	N of Items
.753	12

CORRELATIONS

/VARIABLES=Cashflow Communicate Decisionmake VariationOrder Discrepancies Materialprice SkillExperien Budget VOper
 cent Time Compla
 ints NCR
 /PRINT=TWOTAIL NOSIG
 /MISSING=PAIRWISE.

Correlations

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Correlations

	Actual Project Cost versus Target Project Cost	Percentage of Variation Works (VO)	Actual Project Time versus Target Project Time	Average numbers of Complaint received	Average numbers of Non-Compliance Records
Cash Flow and Finance	Pearson Correlation Sig. (2-tailed) N	.361** .000 368	.132* .011 368	.119* .022 368	.003 .960 368
Communication with Consultants and Client	Pearson Correlation Sig. (2-tailed) N	.276** .000 368	.183** .000 368	.150** .004 368	.063 .231 368

** . Correlation is significant at the 0.01 level (2-tailed).

* . Correlation is significant at the 0.05 level (2-tailed).

Correlations

	Actual Project Cost versus Target Project Cost	Percentage of Variation Works (VO)	Actual Project Time versus Target Project Time	Average numbers of Complaint received	Average numbers of Non-Compliance Records
Decision making by Client	.195**	.159**	.166**	.137**	-.063
	Pearson Correlation				
	Sig. (2-tailed)	.002	.001	.008	.225
	N	368	368	368	368
Frequent Change Order By Client	.294**	.463**	.072	.142**	.101
	Pearson Correlation				
	Sig. (2-tailed)	.000	.170	.007	.053
	N	368	368	368	368
Insufficient/Discrepancies in Contract Document	.312**	.318**	.171**	.151**	.028
	Pearson Correlation				
	Sig. (2-tailed)	.000	.001	.004	.592
	N	368	368	368	368
Material price escalation	.120*	.011	.005	.004	-.056
	Pearson Correlation				
	Sig. (2-tailed)	.831	.918	.939	.280
	N	368	368	368	368
Contractor Skill, Expertise and Experience	.229**	.319**	.084	.076	.018
	Pearson Correlation				
	Sig. (2-tailed)	.000	.108	.143	.725
	N	368	368	368	368

** . Correlation is significant at the 0.01 level (2-tailed).

* . Correlation is significant at the 0.05 level (2-tailed).