

Sri Lanka

Department of Census and Statistics

Annual Survey of Construction Industries - 2006

Study Documentation

November 3, 2009

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Sri Lanka (2005)

Annual Survey of Construction Industries - 2006 (ASCI 2006)

Overview	
Type	Enterprise Survey [en/oth]
Identification	LKA-DCS-ASCI-2006-v1.0
Version	Production Date: 2009-09-24 v1.0: Full edited dataset, for internal use.
Series	The first Survey of Construction Industry was conducted in 1993 with the assistance of Institute for Construction Training and Development (ICTAD). Thereafter the Department of census and Statistics continues to conduct the survey annually to cater to the needs of National Planners and other data users. The reference period for the 2006 survey report was 2005. The frame for this survey was the list of contractors registered with ICTAD.
<p>Abstract</p> <p>The Survey of Construction Industry was conducted in 1993 for the first time in Sri Lanka mainly to furnish data regarding input, output and their trends to the Institute for Construction Training and Development (ICTAD). The Department of Census and Statistics continues to conduct the survey annually to cater to the requirements of the data users along with the rapid development of the construction industry in Sri Lanka. However, due to the unsettled conditions, the survey of construction industries could not be fully conducted in Northern and Eastern Provinces. Therefore the data confines to the Provinces where the survey has been conducted.</p> <p>In this survey, all construction activities undertaken by the private contractors who are registered with ICTAD, government and semi-government agencies are covered. Therefore, construction activities undertaken by the international contractors and the informal construction activities are not presented in this survey. Information is collected relating to the following sectors of the construction industry.</p> <ul style="list-style-type: none"> i. Building construction ii. Highway construction iii. Bridge construction iv. Water supply & drainage v. Irrigation & land drainage vi. Dredging & Reclamation vii. Other constructions <p>All construction activities, except building construction, mentioned above are categorized under Civil Engineering activities. The survey was aimed to cover 901 sample units in all provinces except some districts in northern and eastern provinces during the reference year 2005. The Department introduced a very simple questionnaire for the survey from the year 2000 considering the difficulties to obtain the information of construction activities.</p> <p>The questionnaire was posted to selected contractors and followed up by sending reminding letters in order to collect information such as, value of contract, value of work done, value of raw materials used, salaries and other services.</p> <p>Further employment statistics and value of subcontracts given by the main contractors are also collected. The list of contractors registered with the ICTAD and among those who were engaged in construction activities in the year 2004 have been used as the frame for this survey.</p>	
Kind of Data	Sample survey data [ssd]

Unit of Analysis	Contractors registered with the ICTAD and those who were engaged in construction activities.
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Scope & Coverage

Scope

This survey covers the following areas of study :

- a. Identification information
- b. Details of all contracts undertaken in the year 2005
- c. Details of all contracts operated in the year 2005
- d. Value of constructions done in the year 2005
- e. Details of the sub-contracts given out in the year 2005

in sectors such as

- i. Building construction
- ii. Highway construction
- iii. Bridge construction
- iv. Water supply & drainage
- v. Irrigation & land drainage
- vi. Dredging & Reclamation
- vii. Other constructions

Keywords	Reference Period, Employment, Salaries & Wages, Output, Input, Value Added
Topics	TRADE, INDUSTRY AND MARKETS [2], employment [3.1]
<u>Geographic Coverage</u> The Survey of Construction Activities covers all the construction activities carried out during the reference period in the island by the contractors registered with ICTAD (not in all Districts).	
<u>Universe</u> The survey covered all contractors registered with ICTAD.	

Producers & Sponsors

Primary Investigator(s)	Department of Census and Statistics, Ministry of Finance and Planning
Funding Agency/ies	Department of Census and Statistics (DCS) , Source of funds

Sampling

Sampling Procedure

Stratified Systematic Sampling method was used for the survey and the list of contractors registered with the ICTAD was divided into 2 strata according to the grading system which the ICTAD has devised based on the financial terms. Contractors categorized under grade 1 to grade 6 were canvassed 100% and a probability sample was selected from other grades of 7 to 10 as shown below.

Sample Frame	Strata	Sample fraction	Sample size
1. List of contractors registered with	grade 1-5	100%	241

ICTAD	grade 6-8	40%	572	
	grade 9-10		30%	88
Total			901	

Data Collection

Data Collection Dates	start 2005 end 2005
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Data Collection Mode	Mail Questionnaire [mail]
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Data Collection Notes

The Survey of Construction Industries was aimed to cover 901 sample units in all provinces except some districts in northern and eastern provinces during the reference year 2005. The department introduced a very simple questionnaire for the survey from the year 2000 considering the difficulties to obtain the information of construction activities.

The questionnaire was posted to selected contractors and followed up by sending reminding letters in order to collect information such as, value of contract, value of work done, value of raw materials used, salaries and other services, employment statistics and value of subcontract given by the main contractors.

Questionnaires

The Items Covered in the Questionnaire were:

a. Identification information - Name and address of contractor

b. Details of all contracts undertaken in the year 2005 - Value of contract, Floor area categorized under construction sectors such as :

- i. Building construction
- ii. Highway construction
- iii. Bridge construction
- iv. Water supply & drainage
- v. Irrigation & land drainage
- vi. Dredging & Reclamation
- vii. Other constructions

c. Details of all contracts operated in the year 2005 categorized under construction sectors:

c. Details of all contracts operated in the year 2005 categorized under construction sectors:

- i. Building construction (Housing units, Living quarters, Non-housing units, Repairs and maintenance)
- ii. Highway construction (Maintenance, Reconstruction, New constructions)
- iii. Bridge construction (Bridges, Culverts, Causeways)
- iv. Water supply & drainage (Water supply, Drainage, Pump house)
- v. Irrigation & land drainage (Anicut, Sluice gate, Dam, Spill, Irrigation canal)
- vi. Dredging & Reclamation (Filling, Rehabilitation of irrigation canals, Removing Salvenia, Retaining wall)
- vii. Other constructions

d. Value of constructions done in the year 2005 (separately for Public and Private sector under the above construction sectors) analyzed into Work-site District, Value of contract, Cost of construction, Value of hardware materials and

Salaries paid to Skilled, Unskilled, Technical, Professional categories (separately for Public and Private sector under the above construction sectors).

e. Details of the sub-contracts given out in the year 2005 - Subcontracts given, Value and the District of operation

Accessibility	
Access Authority	Director General (Department of Census and Statistics) , http://www.statistics.gov.lk , dgcensus@slt.net.lk
Contact(s)	Information Unit (Department of Census and Statistics) , http://www.statistics.gov.lk , information@statistics.gov.lk
<p><u>Confidentiality</u></p> <p>Under the Statistical ordinance, microdata cannot be released with identifications for public use. Procedures are in place to ensure that information relating to any particular individual person, household or undertaking will be kept strictly confidential and will not be divulged to external parties. Information on individual or individual Household/establishment will not be divulged or published in such a form that will facilitate the identification of any particular person or establishment as the data have been collected under the Census/Statistical ordinance, according to which the information at individual level cannot be divulged and such information is strictly confidential.</p>	
<p><u>Access Conditions</u></p> <p>The dataset has been anonymized and is available as a Public Use Dataset. It is accessible to all for statistical and research purposes only, under the following terms and conditions:</p> <ol style="list-style-type: none"> 1. The data and other materials will not be redistributed or sold to other individuals, institutions, or organizations without the written agreement. 2. The data will be used for statistical and scientific research purposes only. They will be used solely for reporting of aggregated information, and not for investigation of specific individuals or organizations. 3. No attempt will be made to re-identify respondents, and no use will be made of the identity of any person or establishment discovered inadvertently. 4. No attempt will be made to produce links among datasets provided by the Department or among data from the Department and other datasets that could identify individuals or organizations. 5. Any books, articles, conference papers, theses, dissertations, reports, or other publications that Prices data obtained from the Department will cite the source of data in accordance with the Citation Requirement provided with each dataset. 6. An electronic copy of all reports and publications based on the requested data will be sent to the Department. <p>The following rules apply to micro data released by the Department of Census and Statistics.</p> <ul style="list-style-type: none"> • Only the requests of Government Institutions, Recognized Universities, Students, and selected international agencies are entertained. However, the Data users are required to strictly adhere to the terms stipulated in the agreement form. 	

- All the data requests should be made to Director General (DG) of the DCS as the sole authority of releasing data is vested with the DG of the DCS. The DCS of Sri Lanka reserves sole right to approve or reject any data request made depending on the confidential nature of the data set and intended purpose of the study or analysis.
- Requests for micro data should be made through the agreement form designed by DCS for this purpose (Form D.R.1). The agreement form should be filled in triplicate and the Study/project proposal should accompany the filled agreement form. If requests are made for the micro data of more than one survey, a separate agreement should be signed.
- If the data request is from a student a letter from the respective Dept. Head/Dean/Supervisor, recommending the issue of data, should also be accompanied.
- If the request is approved only 25% of the data file is released at the first stage. The release of the total data file is considered only after reviewing the draft report prepared on the basis of the 25% sample data file.
- The released Data file should be used only for the specific study/Analysis mentioned in the agreement form and shall not be used for any other purpose without the prior approval of the Director General of the DCS. Moreover, Copies of the micro-data file, obtained from the DCS, shall not be given to anyone else without the prior written approval of the Director General of the DCS.
- The draft report of the Study/Analysis should be submitted to the DCS and the concurrence of the DG of the DCS, should be obtained before publishing it. Once published, a copy of the final report should be submitted to the DCS.

Note - [Department = The Department of Census and Statistics (DCS)]

Source : http://www.statistics.gov.lk/databases/data%20dissemination/DataDissaPolicy_2007Oct26n.pdf

Citation Requirements

Department of Census and Statistics, Annual Survey of Construction Industries - 2006 [ASCI 2006] ,Version 1.0 of the public use dataset September, 2009, provided by the National Data Archive, Data Processing Division, www.statistics.gov.lk"

Rights & Disclaimer

Disclaimer

The Department of Census and Statistics bears no responsibility for any results or interpretations arising from the secondary use of the data.

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Files Description

Dataset contains 2 file(s)

Contracts	
# Cases	216
# Variable(s)	48
<u>File Content</u> This file contains data pertaining to Sections 2, 3 and 4 of the questionnaire viz:- a. Details of all contracts undertaken in the yera 2004 b. Details of all contracts operated in the year 2004 c. Value of constructions done in the year 2004	

Sub-contracts	
# Cases	34
# Variable(s)	6
<u>File Content</u> This file corresponds to the Section 5 of the questionnaire which is the details about the subcontracts done by the contractor.	

Variables List

Dataset contains 54 variable(s)

File Contracts							
#	Name	Label	Type	Format	Valid	Invalid	Question
1	serno	Serial Number	discrete	numeric-15.0	216	0	-
2	wei	Inflation factor	discrete	numeric-8.2	216	0	-
3	bny	Contracts undertook?	discrete	numeric-6.0	24	192	-
4	nbvc	Value of contract (Rs)	discrete	numeric-20.0	24	192	-
5	nbfl	Floor area (Ft)	discrete	numeric-15.0	24	192	-
6	sec	Sector	discrete	numeric-4.0	216	0	-
7	accode	Activity	discrete	numeric-4.0	216	0	-
8	dis	District	discrete	numeric-4.0	216	0	-
9	tvc	Total Value of Contract (Rs.)	discrete	numeric-20.0	216	0	-
10	wd	Value of Work Done (Rs.)	discrete	numeric-20.0	216	0	-
11	cement	Expenditure on Cement	discrete	numeric-20.0	216	0	-
12	sand	Expenditure on Sand	discrete	numeric-20.0	216	0	-
13	metal	Expenditure on Metal	discrete	numeric-20.0	216	0	-
14	bricks	Expenditure on Bricks	discrete	numeric-20.0	216	0	-
15	timber	Expenditure on Timber	discrete	numeric-20.0	216	0	-
16	steel	Expenditure on Steel	discrete	numeric-21.0	216	0	-
17	other	Expenditure on Other material	discrete	numeric-20.0	216	0	-
18	total	Total Expenditure	discrete	numeric-30.0	216	0	-
19	serv	Expenditure on Other services (Rs.)	discrete	numeric-20.0	216	0	-
20	smale	Skilled employees - male (No)	discrete	numeric-10.0	216	0	-
21	sfemale	Skilled employees - female (No)	discrete	numeric-10.0	216	0	-
22	ssmale	Skilled employees - male (Salary)	discrete	numeric-10.0	216	0	-
23	ssfemale	Skilled employees - female (Salary)	discrete	numeric-10.0	216	0	-
24	umale	Unskilled employees - male (No)	discrete	numeric-10.0	216	0	-
25	ufemale	Unskilled employees - female (No)	discrete	numeric-10.0	216	0	-
26	usmale	Unskilled employees - male (Salary)	discrete	numeric-10.0	216	0	-
27	usfemale	Unskilled employees - female (Salary)	discrete	numeric-10.0	216	0	-

Annual Survey of Construction Industries - 2006 - Variables List

File Contracts (cont.)

#	Name	Label	Type	Format	Valid	Invalid	Question
28	tmale	Technical employees - male (No)	discrete	numeric-10.0	216	0	-
29	tfemale	Technical employees - female (No)	discrete	numeric-10.0	216	0	-
30	tsmale	Technical employees - male (Salary)	discrete	numeric-10.0	216	0	-
31	tsfemale	Technical employees - female (Salary)	discrete	numeric-10.0	216	0	-
32	pmale	Professional employees - male (No)	discrete	numeric-10.0	216	0	-
33	pfemale	Professional employees - female (No)	discrete	numeric-10.0	216	0	-
34	psmale	Professional employees - male (Salary)	discrete	numeric-10.0	216	0	-
35	psfemale	Professional employees - female (Salary)	discrete	numeric-10.0	216	0	-
36	Province	Province	discrete	numeric-8.2	216	0	-
37	M_Accode	Construction sector	continuous	numeric-8.2	216	0	-
38	Output	Value of work done (Rs)	continuous	numeric-8.2	216	0	-
39	Raw	Raw Materials consumed (Rs.)	continuous	numeric-8.2	216	0	-
40	Input	Expenditure on goods & services	continuous	numeric-8.2	216	0	-
41	Va	Value Added (Rs.)	continuous	numeric-8.2	216	0	-
42	Male	Male Employees (No.)	continuous	numeric-8.2	216	0	-
43	Female	Female Employees (No.)	continuous	numeric-8.2	216	0	-
44	Emp	Average No.of Employees	continuous	numeric-8.2	216	0	-
45	M_sal	Salaries for Male Employees (Rs.)	continuous	numeric-8.2	216	0	-
46	F_sal	Salaries for Female Employees (Rs.)	continuous	numeric-8.2	216	0	-
47	T_Sal	Salaries for Employees (Rs.)	continuous	numeric-8.2	216	0	-
48	x	No.of Activities	continuous	numeric-8.2	216	0	-

File Sub-contracts

#	Name	Label	Type	Format	Valid	Invalid	Question
1	serno	Serial No	discrete	numeric-15.0	34	0	-
2	wei	Inflation factor	discrete	numeric-8.2	34	0	-
3	line	Construction sector	discrete	numeric-4.0	34	0	-
4	sub	Type of Sub contract	discrete	numeric-5.0	34	0	-

Annual Survey of Construction Industries - 2006 - Variables List

File Sub-contracts (cont.)							
#	Name	Label	Type	Format	Valid	Invalid	Question
5	dis	District	discrete	numeric-4.0	34	0	-
6	sval	Value of Sub contract (Rs)	discrete	numeric-20.0	34	0	-

Variables Description

Dataset contains 54 variable(s)

File Contracts

#1 serno: Serial Number

Information	[Type= discrete] [Format=numeric] [Range= 161-292904] [Missing=*]
Statistics [NW/ W]	[Valid=216 /-] [Invalid=0 /-]

Frequency table not shown (76 Modalities)

#2 wei: Inflation factor

Information	[Type= discrete] [Format=numeric] [Range= 6.77-19.74] [Missing=*]
Statistics [NW/ W]	[Valid=216 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
8.14		104	48.1%
35.08		112	51.9%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

#3 bny: Contracts undertook?

Information	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]
Statistics [NW/ W]	[Valid=24 /-] [Invalid=192 /-]

Value	Label	Cases	Percentage
1	Yes	11	45.8%
2	No	13	54.2%
Sysmiss		192	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

#4 nbvc: Value of contract (Rs)

Information	[Type= discrete] [Format=numeric] [Range= 0-2036652560] [Missing=*]
Statistics [NW/ W]	[Valid=24 /-] [Invalid=192 /-]

Value	Label	Cases	Percentage
0		12	50.0%
1200000		1	4.2%
2000000		1	4.2%
4000000		1	4.2%
4300000		1	4.2%
15749800		1	4.2%
21360460		1	4.2%
22608780		1	4.2%

File Contracts (cont.)

#4 nbvc: Value of contract (Rs) (cont.)

Value (cont.)	Label	Cases	Percentage
22993750		1	4.2%
107004115		1	4.2%
200668695		1	4.2%
376174455		1	4.2%
496000000		1	4.2%
Sysmiss		192	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

#5 nbfl: Floor area (Ft)

Information	[Type= discrete] [Format=numeric] [Range= 0-1920487] [Missing=*]		
Statistics [NW/ W]	[Valid=24 /-] [Invalid=192 /-]		
Value	Label	Cases	Percentage
0		13	54.2%
60		1	4.2%
2000		1	4.2%
3500		1	4.2%
11513		1	4.2%
12500		1	4.2%
15072		1	4.2%
25000		1	4.2%
50000		1	4.2%
248000		1	4.2%
327108		1	4.2%
662756209		1	4.2%
Sysmiss		192	

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

#6 sec: Sector

Information	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]		
Statistics [NW/ W]	[Valid=216 /-] [Invalid=0 /-]		
Value	Label	Cases	Percentage
1	Private	47	21.8%
2	Public	169	78.2%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

File Contracts (cont.)

#7 accode: Activity

Information [Type= discrete] [Format=numeric] [Range= 11-71] [Missing=*]

Statistics [NW/ W] [Valid=216 /-] [Invalid=0 /-]

Frequency table not shown (32 Modalities)

#8 dis: District

Information [Type= discrete] [Format=numeric] [Range= 11-92] [Missing=*]

Statistics [NW/ W] [Valid=216 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
11	Colombo	52	24.1%
12	Gampaha	11	5.1%
13	Kalutara	10	4.6%
21	Kandy	14	6.5%
22	Matale	9	4.2%
23	Nuwara-Eliya	0	0.0%
31	Galle	12	5.6%
32	Matara	20	9.3%
33	Hambantota	10	4.6%
41	Jaffna	5	2.3%
42	Mannar	0	0.0%
43	Vavuniya	0	0.0%
44	Mullaitivu	0	0.0%
45	Killinochchi	0	0.0%
51	Batticaloa	4	1.9%
52	Ampara	15	6.9%
53	Trincomalee	2	0.9%
61	Kurunegala	8	3.7%
62	Puttalam	4	1.9%
71	Anuradhapura	11	5.1%
72	Polonnaruwa	2	0.9%
81	Badulla	3	1.4%
82	Moneragala	6	2.8%
91	Ratnapura	12	5.6%
92	Kegalle	6	2.8%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

#9 tv: Total Value of Contract (Rs.)

Information [Type= discrete] [Format=numeric] [Range= 0-1035210000] [Missing=*]

Statistics [NW/ W] [Valid=216 /-] [Invalid=0 /-]

File Contracts (cont.)

#9 tvc: Total Value of Contract (Rs.) (cont.)

Frequency table not shown (203 Modalities)

#10 wd: Value of Work Done (Rs.)

Information [Type= discrete] [Format=numeric] [Range= 0-464576901] [Missing=*]

Statistics [NW/ W] [Valid=216 /-] [Invalid=0 /-]

Frequency table not shown (204 Modalities)

#11 cement: Expenditure on Cement

Information [Type= discrete] [Format=numeric] [Range= 0-32352662] [Missing=*]

Statistics [NW/ W] [Valid=216 /-] [Invalid=0 /-]

Frequency table not shown (169 Modalities)

#12 sand: Expenditure on Sand

Information [Type= discrete] [Format=numeric] [Range= 0-19958573] [Missing=*]

Statistics [NW/ W] [Valid=216 /-] [Invalid=0 /-]

Frequency table not shown (158 Modalities)

#13 metal: Expenditure on Metal

Information [Type= discrete] [Format=numeric] [Range= 0-43000000] [Missing=*]

Statistics [NW/ W] [Valid=216 /-] [Invalid=0 /-]

Frequency table not shown (161 Modalities)

#14 bricks: Expenditure on Bricks

Information [Type= discrete] [Format=numeric] [Range= 0-18505723] [Missing=*]

Statistics [NW/ W] [Valid=216 /-] [Invalid=0 /-]

Frequency table not shown (106 Modalities)

#15 timber: Expenditure on Timber

Information [Type= discrete] [Format=numeric] [Range= 0-23380190] [Missing=*]

Statistics [NW/ W] [Valid=216 /-] [Invalid=0 /-]

Frequency table not shown (132 Modalities)

File Contracts (cont.)

#16 steel: Expenditure on Steel

Information	[Type= discrete] [Format=numeric] [Range= 0-48208301] [Missing=*]
Statistics [NW/ W]	[Valid=216 /-] [Invalid=0 /-]
Frequency table not shown (147 Modalities)	

#17 other: Expenditure on Other material

Information	[Type= discrete] [Format=numeric] [Range= 0-94317142] [Missing=*]
Statistics [NW/ W]	[Valid=216 /-] [Invalid=0 /-]
Frequency table not shown (172 Modalities)	

#18 total: Total Expenditure

Information	[Type= discrete] [Format=numeric] [Range= 0-172547530] [Missing=*]
Statistics [NW/ W]	[Valid=216 /-] [Invalid=0 /-]
Frequency table not shown (208 Modalities)	

#19 serv: Expenditure on Other services (Rs.)

Information	[Type= discrete] [Format=numeric] [Range= 0-178226590] [Missing=*]
Statistics [NW/ W]	[Valid=216 /-] [Invalid=0 /-]
Frequency table not shown (94 Modalities)	

#20 smale: Skilled employees - male (No)

Information	[Type= discrete] [Format=numeric] [Range= 0-1510] [Missing=*]
Statistics [NW/ W]	[Valid=216 /-] [Invalid=0 /-]
Frequency table not shown (43 Modalities)	

#21 sfemale: Skilled employees - female (No)

Information		[Type= discrete] [Format=numeric] [Range= 0-20] [Missing=*]	
Statistics [NW/ W]		[Valid=216 /-] [Invalid=0 /-]	
Value	Label	Cases	Percentage
0		203	<div></div> 94.0%
2		4	<div></div> 1.9%
3		2	<div></div> 0.9%
4		1	<div></div> 0.5%
5		1	<div></div> 0.5%
8		3	<div></div> 1.4%

File Contracts (cont.)

#21 sfemale: Skilled employees - female (No) (cont.)

Value (cont.)	Label	Cases	Percentage
16		1	0.5%
20		1	0.5%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

#22 ssmale: Skilled employees - male (Salary)

Information	[Type= discrete] [Format=numeric] [Range= 0-25900000] [Missing=*]
Statistics [NW/ W]	[Valid=216 /-] [Invalid=0 /-]
Frequency table not shown (163 Modalities)	

#23 ssfemale: Skilled employees - female (Salary)

Information	[Type= discrete] [Format=numeric] [Range= 0-780000] [Missing=*]		
Statistics [NW/ W]	[Valid=216 /-] [Invalid=0 /-]		
Value	Label	Cases	Percentage
0		203	94.0%
15000		1	0.5%
16000		1	0.5%
28000		1	0.5%
50000		2	0.9%
57600		1	0.5%
97500		1	0.5%
110700		1	0.5%
117000		1	0.5%
252000		1	0.5%
300000		1	0.5%
336000		1	0.5%
500000		1	0.5%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

#24 umale: Unskilled employees - male (No)

Information	[Type= discrete] [Format=numeric] [Range= 0-4368] [Missing=*]
Statistics [NW/ W]	[Valid=216 /-] [Invalid=0 /-]
Frequency table not shown (43 Modalities)	

#25 ufemale: Unskilled employees - female (No)

Information	[Type= discrete] [Format=numeric] [Range= 0-75] [Missing=*]
-------------	---

File Contracts (cont.)

#25 ufemale: Unskilled employees - female (No) (cont.)

Statistics [NW/ W]	[Valid=216 /-] [Invalid=0 /-]		
Value	Label	Cases	Percentage
0		179	82.9%
1		2	0.9%
2		6	2.8%
3		2	0.9%
4		2	0.9%
5		8	3.7%
6		3	1.4%
8		2	0.9%
10		6	2.8%
12		1	0.5%
15		3	1.4%
20		1	0.5%
40		1	0.5%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

#26 usmale: Unskilled employees - male (Salary)

Information	[Type= discrete] [Format=numeric] [Range= 0-20900000] [Missing=*]
Statistics [NW/ W]	[Valid=216 /-] [Invalid=0 /-]
Frequency table not shown (143 Modalities)	

#27 usfemale: Unskilled employees - female (Salary)

Information	[Type= discrete] [Format=numeric] [Range= 0-2604000] [Missing=*]
Statistics [NW/ W]	[Valid=216 /-] [Invalid=0 /-]
Frequency table not shown (35 Modalities)	

#28 tmale: Technical employees - male (No)

Information	[Type= discrete] [Format=numeric] [Range= 0-175] [Missing=*]		
Statistics [NW/ W]	[Valid=216 /-] [Invalid=0 /-]		
Value	Label	Cases	Percentage
0		49	22.7%
1		83	38.4%
2		31	14.4%
3		15	6.9%
4		8	3.7%

File Contracts (cont.)

#28 tmale: Technical employees - male (No) (cont.)

Value (cont.)	Label	Cases	Percentage
5		11	5.1%
6		3	1.4%
7		3	1.4%
8		2	0.9%
10		3	1.4%
12		1	0.5%
13		2	0.9%
18		1	0.5%
20		1	0.5%
25		1	0.5%
40		1	0.5%
100		1	0.5%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

#29 tfemale: Technical employees - female (No)

Information	[Type= discrete] [Format=numeric] [Range= 0-20] [Missing=*]		
Statistics [NW/ W]	[Valid=216 /-] [Invalid=0 /-]		
Value	Label	Cases	Percentage
0		190	88.0%
1		14	6.5%
2		6	2.8%
3		2	0.9%
4		1	0.5%
5		1	0.5%
6		2	0.9%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

#30 tsmale: Technical employees - male (Salary)

Information	[Type= discrete] [Format=numeric] [Range= 0-5256012] [Missing=*]
Statistics [NW/ W]	[Valid=216 /-] [Invalid=0 /-]
Frequency table not shown (107 Modalities)	

#31 tfemale: Technical employees - female (Salary)

Information	[Type= discrete] [Format=numeric] [Range= 0-3000000] [Missing=*]		
Statistics [NW/ W]	[Valid=216 /-] [Invalid=0 /-]		

File Contracts (cont.)

#31 tsfemale: Technical employees - female (Salary) (cont.)

Value	Label	Cases	Percentage
0		190	88.0%
10000		1	0.5%
15000		3	1.4%
30630		1	0.5%
60000		1	0.5%
95400		1	0.5%
100000		3	1.4%
115200		1	0.5%
120000		1	0.5%
123000		1	0.5%
150000		2	0.9%
156200		1	0.5%
180000		1	0.5%
200000		1	0.5%
250000		1	0.5%
252000		1	0.5%
300000		2	0.9%
487900		1	0.5%
541000		1	0.5%
1000000		1	0.5%
1200000		1	0.5%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

#32 pmale: Professional employees - male (No)

Information	[Type= discrete] [Format=numeric] [Range= 0-110] [Missing=*]		
Statistics [NW/ W]	[Valid=216 /-] [Invalid=0 /-]		
Value	Label	Cases	Percentage
0		89	41.2%
1		57	26.4%
2		33	15.3%
3		4	1.9%
4		3	1.4%
5		8	3.7%
6		2	0.9%
8		5	2.3%
10		4	1.9%
14		1	0.5%
18		1	0.5%

File Contracts (cont.)

#32 pmale: Professional employees - male (No) (cont.)

Value (cont.)	Label	Cases	Percentage
19		1	0.5%
20		3	1.4%
22		2	0.9%
25		1	0.5%
30		1	0.5%
40		1	0.5%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

#33 pfemale: Professional employees - female (No)

Information	[Type= discrete] [Format=numeric] [Range= 0-4] [Missing=*]		
Statistics [NW/ W]	[Valid=216 /-] [Invalid=0 /-]		
Value	Label	Cases	Percentage
0		198	91.7%
1		13	6.0%
2		4	1.9%
8		1	0.5%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

#34 psmale: Professional employees - male (Salary)

Information	[Type= discrete] [Format=numeric] [Range= 0-4000000] [Missing=*]
Statistics [NW/ W]	[Valid=216 /-] [Invalid=0 /-]
Frequency table not shown (77 Modalities)	

#35 psfemale: Professional employees - female (Salary)

Information	[Type= discrete] [Format=numeric] [Range= 0-1000000] [Missing=*]		
Statistics [NW/ W]	[Valid=216 /-] [Invalid=0 /-]		
Value	Label	Cases	Percentage
0		198	91.7%
15000		1	0.5%
20000		2	0.9%
36000		1	0.5%
78750		1	0.5%
100000		2	0.9%
117000		1	0.5%
200000		3	1.4%
250000		1	0.5%

File Contracts (cont.)

#35 psfemale: Professional employees - female (Salary) (cont.)

Value (cont.)	Label	Cases	Percentage
295200		1	0.5%
420000		1	0.5%
450000		1	0.5%
600000		1	0.5%
800000		1	0.5%
1020000		1	0.5%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

#36 Province: Province

Information	[Type= discrete] [Format=numeric] [Missing=*]
Statistics [NW/ W]	[Valid=216 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
1	Western	73	33.8%
2	Central	23	10.6%
3	Southern	42	19.4%
4	Northern	5	2.3%
5	Eastern	21	9.7%
6	North-West	12	5.6%
7	North-Central	13	6.0%
8	Uwa	9	4.2%
9	Sabaragamuwa	18	8.3%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

#37 M_Accode: Construction sector

Information	[Type= continuous] [Format=numeric] [Range= 1-7] [Missing=*]
Statistics [NW/ W]	[Valid=216 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
1	Building	127	58.8%
2	Highway	46	21.3%
3	Bridge	5	2.3%
4	Water supply & Drainage	12	5.6%
5	Irrigation & Land Drainage	7	3.2%
6	Dredging & Reclamation	3	1.4%
7	Other	16	7.4%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

File Contracts (cont.)**#38 Output: Value of work done (Rs)**

Information	[Type= continuous] [Format=numeric] [Range= 0-464576901] [Missing=*]
Statistics [NW/ W]	[Valid=216 /-] [Invalid=0 /-] [Mean=20350559.801 /-] [StdDev=74299948.689 /-]

#39 Raw: Raw Materials consumed (Rs.)

Information	[Type= continuous] [Format=numeric] [Range= 0-172547530] [Missing=*]
Statistics [NW/ W]	[Valid=216 /-] [Invalid=0 /-] [Mean=10527663.056 /-] [StdDev=47086505.477 /-]

#40 Input: Expenditure on goods & services

Information	[Type= continuous] [Format=numeric] [Range= 0-350774120] [Missing=*]
Statistics [NW/ W]	[Valid=216 /-] [Invalid=0 /-] [Mean=12511775.481 /-] [StdDev=59264984.832 /-]

#41 Va: Value Added (Rs.)

Information	[Type= continuous] [Format=numeric] [Range= 0-315200000] [Missing=*]
Statistics [NW/ W]	[Valid=216 /-] [Invalid=0 /-] [Mean=7838784.319 /-] [StdDev=22308233.916 /-]

#42 Male: Male Employees (No.)

Information	[Type= continuous] [Format=numeric] [Range= 0-5889] [Missing=*]
Statistics [NW/ W]	[Valid=216 /-] [Invalid=0 /-] [Mean=43.977 /-] [StdDev=87.775 /-]

#43 Female: Female Employees (No.)

Information	[Type= continuous] [Format=numeric] [Range= 0-75] [Missing=*]
Statistics [NW/ W]	[Valid=216 /-] [Invalid=0 /-] [Mean=2.056 /-] [StdDev=5.126 /-]

#44 Emp: Average No.of Employees

Information	[Type= continuous] [Format=numeric] [Range= 0-5889] [Missing=*]
Statistics [NW/ W]	[Valid=216 /-] [Invalid=0 /-] [Mean=46.032 /-] [StdDev=90.645 /-]

#45 M_sal: Salaries for Male Employees (Rs.)

Information	[Type= continuous] [Format=numeric] [Range= 0-51200000] [Missing=*]
Statistics [NW/ W]	[Valid=216 /-] [Invalid=0 /-] [Mean=3595589.681 /-] [StdDev=12310953.489 /-]

File Contracts (cont.)

#46 F_sal: Salaries for Female Employees (Rs.)

Information	[Type= continuous] [Format=numeric] [Range= 0-3150000] [Missing=*]
Statistics [NW/ W]	[Valid=216 /-] [Invalid=0 /-] [Mean=114028.977 /-] [StdDev=491149.636 /-]

#47 T_Sal: Salaries for Employees (Rs.)

Information	[Type= continuous] [Format=numeric] [Range= 0-52400000] [Missing=*]
Statistics [NW/ W]	[Valid=216 /-] [Invalid=0 /-] [Mean=3709618.657 /-] [StdDev=12691196.556 /-]

#48 x: No.of Activities

Information	[Type= continuous] [Format=numeric] [Range= 1-1] [Missing=*]
Statistics [NW/ W]	[Valid=216 /-] [Invalid=0 /-] [Mean=1 /-] [StdDev=0 /-]

File Sub-contracts

#1 serno: Serial No

Information	[Type= discrete] [Format=numeric] [Missing=*]
Statistics [NW/ W]	[Valid=34 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
111114		4	11.8%
111506		2	5.9%
111508		6	17.6%
111520		5	14.7%
112402		1	2.9%
211606		2	5.9%
211711		5	14.7%
212803		5	14.7%
232709		2	5.9%
261705		2	5.9%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

#2 wei: Inflation factor

Information	[Type= discrete] [Format=numeric] [Range= 8.14-35.08] [Missing=*]
Statistics [NW/ W]	[Valid=34 /-] [Invalid=0 /-]

File Sub-contracts (cont.)

#2 wei: Inflation factor (cont.)

Value	Label	Cases	Percentage
8.14		18	52.9%
35.08		16	47.1%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

#3 line: Construction sector

Information	[Type= discrete] [Format=numeric] [Missing=*]		
Statistics [NW/ W]	[Valid=34 /-] [Invalid=0 /-]		
Value	Label	Cases	Percentage
1	Building	10	29.4%
2	Highway	9	26.5%
3	Bridge	5	14.7%
4	Water supply & Drainage	5	14.7%
5	Irrigation & Land Drainage	4	11.8%
6	Dredging & Reclamation	1	2.9%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

#4 sub: Type of Sub contract

Information	[Type= discrete] [Format=numeric] [Range= 1-99] [Missing=*]		
Statistics [NW/ W]	[Valid=34 /-] [Invalid=0 /-]		
Value	Label	Cases	Percentage
1	Contract Labour Work	2	5.9%
2	Masonry Work	6	17.6%
3	Carpentry Work	0	0.0%
4	Bar Bending	0	0.0%
5	Electrical Wiring	1	2.9%
6	Plumbing Work	1	2.9%
7	Painting & Varnishing Work	0	0.0%
8	Aluminium Fabrication	2	5.9%
9	Landscaping & Filling	0	0.0%
10	Concrete Work	0	0.0%
11	Bricks & Metal Works	3	8.8%
13	Wall Tiling & Floor Tiling Work	0	0.0%
14	Roofing Work	0	0.0%
15	Foundation Work	0	0.0%
16	Excavation of Drainage Line	0	0.0%
17	New Building Construction	1	2.9%
18	Building Maintenance	4	11.8%

File Sub-contracts (cont.)

#4 sub: Type of Sub contract (cont.)

Value (cont.)	Label	Cases	Percentage
19	Highway Construction	4	11.8%
99	Other	10	29.4%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

#5 dis: District

Information	[Type= discrete] [Format=numeric] [Range= 11-92] [Missing=*]
Statistics [NW/ W]	[Valid=34 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
11	Colombo	17	50.0%
12	Gampaha	8	23.5%
13	Kalutara	0	0.0%
21	Kandy	0	0.0%
22	Matale	0	0.0%
23	Nuwara-Eliya	0	0.0%
31	Galle	0	0.0%
32	Matara	3	8.8%
33	Hambantota	1	2.9%
41	Jaffna	3	8.8%
42	Mannar	0	0.0%
43	Vavuniya	0	0.0%
44	Mullaitivu	0	0.0%
45	Killinochchi	0	0.0%
51	Batticaloa	0	0.0%
52	Ampara	1	2.9%
53	Trincomalee	0	0.0%
61	Kurunegala	0	0.0%
62	Puttalam	0	0.0%
71	Anuradhapura	0	0.0%
72	Polonnaruwa	0	0.0%
81	Badulla	0	0.0%
82	Moneragala	0	0.0%
91	Ratnapura	1	2.9%
92	Kegalle	0	0.0%

Warning: these figures indicate the number of cases found in the data file. They cannot be interpreted as summary statistics of the population of interest.

#6 sval: Value of Sub contract (Rs)

Information	[Type= discrete] [Format=numeric] [Range= 13000-15000000] [Missing=*]
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File Sub-contracts (cont.)

#6 sval: Value of Sub contract (Rs) (cont.)

Statistics [NW/ W]	[Valid=34 /-] [Invalid=0 /-]
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Reports and analytical documents

Report Extracts, "Documentation\Report Extracts.doc"

Questionnaires

Questionnaire of ASCI06, "Documentation\Questionnaire of ASCI06.pdf"

Other documents

Study Documentation of ASCI06 Project, "Documentation\Study Documentation of ASCI06 Project.pdf"