

Sri Lanka

Department of Census and Statistics

Annual Survey of Construction Industries - 2005

Study Documentation

November 3, 2009

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Sri Lanka (2004)
Annual Survey of Construction Industries - 2005 (ASCI 2005)

Overview

Type	Enterprise Survey [en/oth]
Identification	LKA-DCS-ASCI-2005-v1.0
Version	Production Date: 2009-09-23 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 2005 survey report was 2004. The frame for this survey was the list of contractors registered with ICTAD.

Abstract

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.

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.

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

All construction activities, except building construction, mentioned above are categorized under Civil Engineering activities. The survey was aimed to cover 1235 sample units in all provinces except some districts in northern and eastern provinces during the reference year 2004. 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.

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.

Kind of Data	Sample survey data [ssd]
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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 2004
- c. Details of all contracts operated in the year 2004
- d. Value of constructions done in the year 2004
- e. Details of the sub-contracts given out in the year 2004

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
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Topics	TRADE, INDUSTRY AND MARKETS [2], employment [3.1]
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Geographic Coverage

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).

Universe

The survey covered all contractors registered with ICTAD.

Producers & Sponsors

Primary Investigator(s)	Department of Census and Statistics, Ministry of Finance and Planning
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Funding Agency/ies	Department of Census and Statistics (DCS) , Source of funds
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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
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1. List of contractors registered with ICTAD	grade 1-6 grade 7-10	100% 45%	404 600
	Northern & Eastern province		100% 231
Total			1235

Data Collection

Data Collection Dates	start 2004 end 2004
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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 1235 sample units in all provinces except some districts in northern and eastern provinces during the reference year 2004. 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 2004 - 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 2004 categorized under construction sectors:
- c. Details of all contracts operated in the year 2004 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 2004 (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 2004 - 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 - 2005 [ASCI 2005] ,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	614
# 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	58
# Variable(s)	5
<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 53 variable(s)

File Contracts							
#	Name	Label	Type	Format	Valid	Invalid	Question
1	serno	Serial Number	discrete	numeric-15.0	614	0	-
2	wei	Inflation factor	discrete	numeric-8.2	614	0	-
3	bny	Contracts undertook?	discrete	numeric-6.0	187	427	-
4	nbvc	Value of contract (Rs)	discrete	numeric-20.0	101	513	-
5	nbfl	Floor area (Ft)	discrete	numeric-15.0	91	523	-
6	sec	Sector	discrete	numeric-4.0	490	124	-
7	accode	Activity	discrete	numeric-4.0	468	146	-
8	dis	District	discrete	numeric-4.0	468	146	-
9	tvc	Total Value of Contract (Rs.)	discrete	numeric-20.0	614	0	-
10	wd	Value of Work Done (Rs.)	discrete	numeric-20.0	614	0	-
11	cement	Expenditure on Cement	discrete	numeric-20.0	614	0	-
12	sand	Expenditure on Sand	discrete	numeric-20.0	614	0	-
13	metal	Expenditure on Metal	discrete	numeric-20.0	614	0	-
14	bricks	Expenditure on Bricks	discrete	numeric-20.0	614	0	-
15	timber	Expenditure on Timber	discrete	numeric-20.0	614	0	-
16	steel	Expenditure on Steel	discrete	numeric-20.0	614	0	-
17	other	Expenditure on Other material	discrete	numeric-20.0	614	0	-
18	total	Total Expenditure	discrete	numeric-30.0	614	0	-
19	serv	Expenditure on Other services (Rs.)	discrete	numeric-20.0	614	0	-
20	smale	Skilled employees - male (No)	discrete	numeric-10.0	614	0	-
21	sfemale	Skilled employees - female (No)	discrete	numeric-10.0	614	0	-
22	ssmale	Skilled employees - male (Salary)	discrete	numeric-10.0	614	0	-
23	ssfemale	Skilled employees - female (Salary)	discrete	numeric-10.0	614	0	-
24	umale	Unskilled employees - male (No)	discrete	numeric-10.0	614	0	-
25	ufemale	Unskilled employees - female (No)	discrete	numeric-10.0	614	0	-
26	usmale	Unskilled employees - male (Salary)	discrete	numeric-10.0	614	0	-
27	usfemale	Unskilled employees - female (Salary)	discrete	numeric-10.0	614	0	-

Annual Survey of Construction Industries - 2005 - Variables List

File Contracts (cont.)							
#	Name	Label	Type	Format	Valid	Invalid	Question
28	tmale	Technical employees - male (No)	discrete	numeric-10.0	614	0	-
29	tfemale	Technical employees - female (No)	discrete	numeric-10.0	614	0	-
30	tsmale	Technical employees - male (Salary)	discrete	numeric-10.0	614	0	-
31	tsfemale	Technical employees - female (Salary)	discrete	numeric-10.0	614	0	-
32	pmale	Professional employees - male (No)	discrete	numeric-10.0	614	0	-
33	pfemale	Professional employees - female (No)	discrete	numeric-10.0	614	0	-
34	psmale	Professional employees - male (Salary)	discrete	numeric-10.0	614	0	-
35	psfemale	Professional employees - female (Salary)	discrete	numeric-10.0	614	0	-
36	province	Province	continuous	numeric-8.2	468	146	-
37	M_Accode	Construction sector	continuous	numeric-8.2	468	146	-
38	Output	Value of work done (Rs)	continuous	numeric-8.2	614	0	-
39	Raw	Raw Materials consumed (Rs.)	continuous	numeric-8.2	614	0	-
40	Input	Expenditure on goods & services	continuous	numeric-8.2	614	0	-
41	Va	Value Added (Rs.)	continuous	numeric-8.2	614	0	-
42	Male	Male Employees (No.)	continuous	numeric-8.2	614	0	-
43	Female	Female Employees (No.)	continuous	numeric-8.2	614	0	-
44	Emp	Average No.of Employees	continuous	numeric-8.2	614	0	-
45	M_sal	Salaries for Male Employees (Rs.)	continuous	numeric-8.2	614	0	-
46	F_sal	Salaries for Female Employees (Rs.)	continuous	numeric-8.2	614	0	-
47	T_Sal	Salaries for Employees (Rs.)	continuous	numeric-8.2	614	0	-
48	x	No.of Activities	continuous	numeric-8.2	614	0	-

File Sub-contracts							
#	Name	Label	Type	Format	Valid	Invalid	Question
1	serno	Serial No	discrete	character-15	58	0	-
2	wei	Inflation factor	discrete	numeric-8.2	58	0	-
3	sub	Type of Sub contract	discrete	numeric-5.0	58	0	-
4	dis	District	discrete	numeric-4.0	58	0	-

Annual Survey of Construction Industries - 2005 - Variables List

File Sub-contracts (cont.)							
#	Name	Label	Type	Format	Valid	Invalid	Question
5	sval	Value of Sub contract (Rs)	discrete	numeric-20.0	58	0	-

Variables Description

Dataset contains 53 variable(s)

File Contracts

#1 serno: Serial Number

Information [Type= discrete] [Format=numeric] [Range= 161-292904] [Missing=*]

Statistics [NW/ W] [Valid=614 /-] [Invalid=0 /-]

Frequency table not shown (167 Modalities)

#2 wei: Inflation factor

Information [Type= discrete] [Format=numeric] [Range= 6.77-19.74] [Missing=*]

Statistics [NW/ W] [Valid=614 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
6.77		84	13.7%
8.24		266	43.3%
19.74		264	43.0%

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.

#3 bny: Contracts undertook?

Information [Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]

Statistics [NW/ W] [Valid=187 /-] [Invalid=427 /-]

Value	Label	Cases	Percentage
1	Yes	96	51.3%
2	No	91	48.7%
Sysmiss		427	

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=101 /-] [Invalid=513 /-]

Frequency table not shown (87 Modalities)

#5 nbfl: Floor area (Ft)

Information [Type= discrete] [Format=numeric] [Range= 200-1920487] [Missing=*]

Statistics [NW/ W] [Valid=91 /-] [Invalid=523 /-]

Frequency table not shown (73 Modalities)

File Contracts (cont.)

#6 sec: Sector

Information	[Type= discrete] [Format=numeric] [Range= 1-2] [Missing=*]		
Statistics [NW/ W]	[Valid=490 /-] [Invalid=124 /-]		
Value	Label	Cases	Percentage
1	Private	146	29.8%
2	Public	344	70.2%
Sysmiss		124	

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.

#7 accode: Activity

Information	[Type= discrete] [Format=numeric] [Range= 11-71] [Missing=*]
Statistics [NW/ W]	[Valid=468 /-] [Invalid=146 /-]
Frequency table not shown (33 Modalities)	

#8 dis: District

Information	[Type= discrete] [Format=numeric] [Range= 11-92] [Missing=*]		
Statistics [NW/ W]	[Valid=468 /-] [Invalid=146 /-]		
Value	Label	Cases	Percentage
11	Colombo	91	19.4%
12	Gampaha	38	8.1%
13	Kalutara	4	0.9%
21	Kandy	52	11.1%
22	Matale	8	1.7%
23	Nuwara-Eliya	7	1.5%
31	Galle	22	4.7%
32	Matara	13	2.8%
33	Hambantota	17	3.6%
41	Jaffna	15	3.2%
42	Mannar	0	0.0%
43	Vavuniya	2	0.4%
44	Mullaitivu	2	0.4%
45	Killinochchi	4	0.9%
51	Batticaloa	30	6.4%
52	Ampara	21	4.5%
53	Trincomalee	17	3.6%
61	Kurunegala	29	6.2%
62	Puttalam	11	2.4%
71	Anuradhapura	22	4.7%

File Contracts (cont.)

#8 dis: District (cont.)

Value (cont.)	Label	Cases	Percentage
72	Polonnaruwa	7	1.5%
81	Badulla	18	3.8%
82	Moneragala	16	3.4%
91	Ratnapura	13	2.8%
92	Kegalle	9	1.9%
Sysmiss		146	

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=614 /-] [Invalid=0 /-]
Frequency table not shown (394 Modalities)	

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

Information	[Type= discrete] [Format=numeric] [Range= 0-464576901] [Missing=*]
Statistics [NW/ W]	[Valid=614 /-] [Invalid=0 /-]
Frequency table not shown (378 Modalities)	

#11 cement: Expenditure on Cement

Information	[Type= discrete] [Format=numeric] [Range= 0-32352662] [Missing=*]
Statistics [NW/ W]	[Valid=614 /-] [Invalid=0 /-]
Frequency table not shown (292 Modalities)	

#12 sand: Expenditure on Sand

Information	[Type= discrete] [Format=numeric] [Range= 0-19958573] [Missing=*]
Statistics [NW/ W]	[Valid=614 /-] [Invalid=0 /-]
Frequency table not shown (265 Modalities)	

#13 metal: Expenditure on Metal

Information	[Type= discrete] [Format=numeric] [Range= 0-43000000] [Missing=*]
Statistics [NW/ W]	[Valid=614 /-] [Invalid=0 /-]
Frequency table not shown (271 Modalities)	

File Contracts (cont.)**#14 bricks: Expenditure on Bricks**

Information	[Type= discrete] [Format=numeric] [Range= 0-18505723] [Missing=*]
Statistics [NW/ W]	[Valid=614 /-] [Invalid=0 /-]
Frequency table not shown (198 Modalities)	

#15 timber: Expenditure on Timber

Information	[Type= discrete] [Format=numeric] [Range= 0-23380190] [Missing=*]
Statistics [NW/ W]	[Valid=614 /-] [Invalid=0 /-]
Frequency table not shown (229 Modalities)	

#16 steel: Expenditure on Steel

Information	[Type= discrete] [Format=numeric] [Range= 0-48208301] [Missing=*]
Statistics [NW/ W]	[Valid=614 /-] [Invalid=0 /-]
Frequency table not shown (263 Modalities)	

#17 other: Expenditure on Other material

Information	[Type= discrete] [Format=numeric] [Range= 0-94317142] [Missing=*]
Statistics [NW/ W]	[Valid=614 /-] [Invalid=0 /-]
Frequency table not shown (291 Modalities)	

#18 total: Total Expenditure

Information	[Type= discrete] [Format=numeric] [Range= 0-172547530] [Missing=*]
Statistics [NW/ W]	[Valid=614 /-] [Invalid=0 /-]
Frequency table not shown (422 Modalities)	

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

Information	[Type= discrete] [Format=numeric] [Range= 0-178226590] [Missing=*]
Statistics [NW/ W]	[Valid=614 /-] [Invalid=0 /-]
Frequency table not shown (177 Modalities)	

#20 smale: Skilled employees - male (No)

Information	[Type= discrete] [Format=numeric] [Range= 0-1510] [Missing=*]
Statistics [NW/ W]	[Valid=614 /-] [Invalid=0 /-]
Frequency table not shown (53 Modalities)	

File Contracts (cont.)

#21 sfemale: Skilled employees - female (No)

Information	[Type= discrete] [Format=numeric] [Range= 0-20] [Missing=*]
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Statistics [NW/ W]	[Valid=614 /-] [Invalid=0 /-]
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Value	Label	Cases	Percentage
0		602	98.0%
2		2	0.3%
3		1	0.2%
5		1	0.2%
6		1	0.2%
8		1	0.2%
10		4	0.7%
15		1	0.2%
20		1	0.2%

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.

#22 ssmale: Skilled employees - male (Salary)

Information	[Type= discrete] [Format=numeric] [Range= 0-25900000] [Missing=*]
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Statistics [NW/ W]	[Valid=614 /-] [Invalid=0 /-]
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Frequency table not shown (238 Modalities)

#23 ssfemale: Skilled employees - female (Salary)

Information	[Type= discrete] [Format=numeric] [Range= 0-780000] [Missing=*]
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Statistics [NW/ W]	[Valid=614 /-] [Invalid=0 /-]
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Value	Label	Cases	Percentage
0		602	98.0%
7252		1	0.2%
10000		1	0.2%
10500		1	0.2%
30000		4	0.7%
100400		1	0.2%
140000		1	0.2%
525000		1	0.2%
630000		1	0.2%
780000		1	0.2%

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.

#24 umale: Unskilled employees - male (No)

Information	[Type= discrete] [Format=numeric] [Range= 0-4368] [Missing=*]
-------------	---

File Contracts (cont.)**#24 umale: Unskilled employees - male (No)** (cont.)

Statistics [NW/ W]	[Valid=614 /-] [Invalid=0 /-]
--------------------	-------------------------------

Frequency table not shown (67 Modalities)

#25 ufemale: Unskilled employees - female (No)

Information	[Type= discrete] [Format=numeric] [Range= 0-75] [Missing=*]
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Statistics [NW/ W]	[Valid=614 /-] [Invalid=0 /-]
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Value	Label	Cases	Percentage
0		549	89.4%
1		2	0.3%
2		7	1.1%
3		6	1.0%
4		4	0.7%
5		14	2.3%
6		5	0.8%
7		2	0.3%
8		3	0.5%
10		11	1.8%
12		1	0.2%
15		3	0.5%
16		1	0.2%
18		1	0.2%
20		4	0.7%
75		1	0.2%

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.

#26 usmale: Unskilled employees - male (Salary)

Information	[Type= discrete] [Format=numeric] [Range= 0-20900000] [Missing=*]
-------------	---

Statistics [NW/ W]	[Valid=614 /-] [Invalid=0 /-]
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Frequency table not shown (246 Modalities)

#27 usfemale: Unskilled employees - female (Salary)

Information	[Type= discrete] [Format=numeric] [Range= 0-2604000] [Missing=*]
-------------	--

Statistics [NW/ W]	[Valid=614 /-] [Invalid=0 /-]
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Frequency table not shown (46 Modalities)

File Contracts (cont.)

#28 tmale: Technical employees - male (No)

Information [Type= discrete] [Format=numeric] [Range= 0-175] [Missing=*]

Statistics [NW/ W] [Valid=614 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
0		256	41.7%
1		208	33.9%
2		68	11.1%
3		30	4.9%
4		14	2.3%
5		5	0.8%
6		8	1.3%
7		1	0.2%
8		5	0.8%
9		1	0.2%
10		2	0.3%
12		2	0.3%
14		1	0.2%
15		2	0.3%
17		3	0.5%
20		1	0.2%
25		3	0.5%
30		3	0.5%
175		1	0.2%

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.

#29 tfemale: Technical employees - female (No)

Information [Type= discrete] [Format=numeric] [Range= 0-20] [Missing=*]

Statistics [NW/ W] [Valid=614 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
0		559	91.0%
1		28	4.6%
2		13	2.1%
3		7	1.1%
4		3	0.5%
5		1	0.2%
6		1	0.2%
12		1	0.2%
20		1	0.2%

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.)

#30 tsmale: Technical employees - male (Salary)

Information [Type= discrete] [Format=numeric] [Range= 0-5256012] [Missing=*]

Statistics [NW/ W] [Valid=614 /-] [Invalid=0 /-]

Frequency table not shown (128 Modalities)

#31 tsfemale: Technical employees - female (Salary)

Information [Type= discrete] [Format=numeric] [Range= 0-3000000] [Missing=*]

Statistics [NW/ W] [Valid=614 /-] [Invalid=0 /-]

Frequency table not shown (34 Modalities)

#32 pmale: Professional employees - male (No)

Information [Type= discrete] [Format=numeric] [Range= 0-110] [Missing=*]

Statistics [NW/ W] [Valid=614 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
0		409	66.6%
1		132	21.5%
2		38	6.2%
3		7	1.1%
4		4	0.7%
5		10	1.6%
6		2	0.3%
7		1	0.2%
8		4	0.7%
9		1	0.2%
10		1	0.2%
25		1	0.2%
30		2	0.3%
31		1	0.2%
110		1	0.2%

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.

#33 pfemale: Professional employees - female (No)

Information [Type= discrete] [Format=numeric] [Range= 0-4] [Missing=*]

Statistics [NW/ W] [Valid=614 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
0		593	96.6%
1		15	2.4%

File Contracts (cont.)

#33 pfemale: Professional employees - female (No) (cont.)

Value (cont.)	Label	Cases	Percentage
2		5	0.8%
4		1	0.2%

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.

#34 psmale: Professional employees - male (Salary)

Information	[Type= discrete] [Format=numeric] [Range= 0-4000000] [Missing=*]
Statistics [NW/ W]	[Valid=614 /-] [Invalid=0 /-]
Frequency table not shown (100 Modalities)	

#35 pfemale: Professional employees - female (Salary)

Information	[Type= discrete] [Format=numeric] [Range= 0-1000000] [Missing=*]		
Statistics [NW/ W]	[Valid=614 /-] [Invalid=0 /-]		
Value	Label	Cases	Percentage
0		593	96.6%
5000		1	0.2%
15000		2	0.3%
16000		1	0.2%
20000		2	0.3%
30000		1	0.2%
50000		1	0.2%
60000		1	0.2%
90000		1	0.2%
100000		2	0.3%
150000		1	0.2%
160000		1	0.2%
200000		2	0.3%
250000		1	0.2%
300000		1	0.2%
1000000		3	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= continuous] [Format=numeric] [Range= 1-9] [Missing=*]		
Statistics [NW/ W]	[Valid=468 /-] [Invalid=146 /-]		
Value	Label	Cases	Percentage
1	Western	133	28.4%

File Contracts (cont.)

#36 province: Province (cont.)

Value (cont.)	Label	Cases	Percentage
2	Central	67	14.3%
3	Southern	52	11.1%
4	Northern	23	4.9%
5	Eastern	68	14.5%
6	North-West	40	8.5%
7	North-Central	29	6.2%
8	Uwa	34	7.3%
9	Sabaragamuwa	22	4.7%

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=468 /-] [Invalid=146 /-]

Value	Label	Cases	Percentage
1	Building	273	58.3%
2	Highway	70	15.0%
3	Bridge	19	4.1%
4	Water supply & Drainage	44	9.4%
5	Irrigation & Land Drainage	26	5.6%
6	Dredging & Reclamation	10	2.1%
7	Other	26	5.6%

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.

#38 Output: Value of work done (Rs)

Information	[Type= continuous] [Format=numeric] [Range= 0-464576901] [Missing=*]
Statistics [NW/ W]	[Valid=614 /-] [Invalid=0 /-] [Mean=8299983.855 /-] [StdDev=31668405.247 /-]

#39 Raw: Raw Materials consumed (Rs.)

Information	[Type= continuous] [Format=numeric] [Range= 0-172547530] [Missing=*]
Statistics [NW/ W]	[Valid=614 /-] [Invalid=0 /-] [Mean=4055220.397 /-] [StdDev=13573061.822 /-]

#40 Input: Expenditure on goods & services

Information	[Type= continuous] [Format=numeric] [Range= 0-350774120] [Missing=*]
Statistics [NW/ W]	[Valid=614 /-] [Invalid=0 /-] [Mean=5122164.319 /-] [StdDev=19991850.333 /-]

File Contracts (cont.)

#41 Va: Value Added (Rs.)

Information	[Type= continuous] [Format=numeric] [Range= 0-315200000] [Missing=*]
Statistics [NW/ W]	[Valid=614 /-] [Invalid=0 /-] [Mean=3177819.536 /-] [StdDev=16880028.686 /-]

#42 Male: Male Employees (No.)

Information	[Type= continuous] [Format=numeric] [Range= 0-5889] [Missing=*]
Statistics [NW/ W]	[Valid=614 /-] [Invalid=0 /-] [Mean=47.217 /-] [StdDev=248.797 /-]

#43 Female: Female Employees (No.)

Information	[Type= continuous] [Format=numeric] [Range= 0-75] [Missing=*]
Statistics [NW/ W]	[Valid=614 /-] [Invalid=0 /-] [Mean=1.309 /-] [StdDev=4.881 /-]

#44 Emp: Average No.of Employees

Information	[Type= continuous] [Format=numeric] [Range= 0-5889] [Missing=*]
Statistics [NW/ W]	[Valid=614 /-] [Invalid=0 /-] [Mean=48.526 /-] [StdDev=249.094 /-]

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

Information	[Type= continuous] [Format=numeric] [Range= 0-51200000] [Missing=*]
Statistics [NW/ W]	[Valid=614 /-] [Invalid=0 /-] [Mean=1260802.868 /-] [StdDev=4245001.879 /-]

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

Information	[Type= continuous] [Format=numeric] [Range= 0-3150000] [Missing=*]
Statistics [NW/ W]	[Valid=614 /-] [Invalid=0 /-] [Mean=46567.863 /-] [StdDev=233778.072 /-]

#47 T_Sal: Salaries for Employees (Rs.)

Information	[Type= continuous] [Format=numeric] [Range= 0-52400000] [Missing=*]
Statistics [NW/ W]	[Valid=614 /-] [Invalid=0 /-] [Mean=1307370.731 /-] [StdDev=4370860.346 /-]

#48 x: No.of Activities

Information	[Type= continuous] [Format=numeric] [Range= 1-1] [Missing=*]
Statistics [NW/ W]	[Valid=614 /-] [Invalid=0 /-] [Mean=1 /-] [StdDev=0 /-]

File Sub-contracts

#1 serno: Serial No

Information [Type= discrete] [Format=character] [Missing=*^S,%]

Statistics [NW/ W] [Valid=58 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
111111		2	3.4%
111117		3	5.2%
111517		5	8.6%
111604		2	3.4%
112403		27	46.6%
161509		4	6.9%
211721		1	1.7%
211728		1	1.7%
211739		6	10.3%
211931		3	5.2%
292904		4	6.9%

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= 8.24-19.74] [Missing=*]

Statistics [NW/ W] [Valid=58 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
8.24		43	74.1%
19.74		15	25.9%

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 sub: Type of Sub contract

Information [Type= discrete] [Format=numeric] [Range= 1-99] [Missing=*]

Statistics [NW/ W] [Valid=58 /-] [Invalid=0 /-]

Value	Label	Cases	Percentage
1	Contract Labour Work	2	3.4%
2	Masonry Work	2	3.4%
3	Carpentry Work	3	5.2%
4	Bar Bending	2	3.4%
5	Electrical Wiring	4	6.9%
6	Plumbing Work	3	5.2%
7	Painting & Varnishing Work	3	5.2%
8	Aluminium Fabrication	2	3.4%
9	Landscaping & Filling	8	13.8%

File Sub-contracts (cont.)

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

Value (cont.)	Label	Cases	Percentage
10	Concrete Work	1	1.7%
11	Bricks & Metal Works	0	0.0%
13	Wall Tiling & Floor Tiling Work	2	3.4%
14	Roofing Work	2	3.4%
15	Foundation Work	0	0.0%
16	Excavation of Drainage Line	3	5.2%
17	New Building Construction	4	6.9%
18	Building Maintenance	2	3.4%
19	Highway Construction	2	3.4%
99	Other	13	22.4%

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.

#4 dis: District

Value	Label	Cases	Percentage
11	Colombo	24	41.4%
12	Gampaha	2	3.4%
13	Kalutara	1	1.7%
21	Kandy	2	3.4%
22	Matale	0	0.0%
23	Nuwara-Eliya	0	0.0%
31	Galle	3	5.2%
32	Matara	4	6.9%
33	Hambantota	0	0.0%
41	Jaffna	0	0.0%
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	2	3.4%
53	Trincomalee	0	0.0%
61	Kurunegala	6	10.3%
62	Puttalam	7	12.1%
71	Anuradhapura	0	0.0%
72	Polonnaruwa	0	0.0%
81	Badulla	4	6.9%

File Sub-contracts (cont.)

#4 dis: District (cont.)

Value (cont.)	Label	Cases	Percentage
82	Moneragala	0	0.0%
91	Ratnapura	0	0.0%
92	Kegalle	3	5.2%

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.

#5 sval: Value of Sub contract (Rs)

Information	[Type= discrete] [Format=numeric] [Range= 15000-143950000] [Missing=*]
Statistics [NW/ W]	[Valid=58 /-] [Invalid=0 /-]
Frequency table not shown (50 Modalities)	

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Reports and analytical documents

Report Extracts, "Documentation\Report Extracts.doc"

Questionnaires

Questionnaire of ASCI05, "Documentation\Questionnaire of ASCI05.pdf"

Other documents

Study Documentation of ASCI05 Project, "Documentation\Study Documentation of ASCI05 Project.pdf"