

PREFACE

In 1993, the Department of Census and Statistics (DCS) conducted its first Survey on Construction Industries at the request of Institute for Construction Training and Development (ICTAD). The output of the survey revealed that this survey to be continued to produce important economic and labor related indicators of construction sector in the country. Therefore, it became a regular a survey in the Department.

DCS has been conducting this survey annually with some exception where this was conducted biennially. This report is based on the 17th survey of construction industries and it gives data on input, output, value added, labor engaged in the sector etc.; which are very important for economic policy makers as well as construction industries itself, and formulation of the Gross Domestic Product for the country.

Hope this publication provides valuable information on Construction Sector of the country.



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The respondents of the construction establishments selected for this survey who extended their co-operation to DCS in collecting data are also very much appreciated.

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1. INTRODUCTION

BACKGROUND

A survey on construction industries was conducted in 1993 for the first time in Sri Lanka by the Department of Census and Statistics (DCS) which is the main responsible agency for compiling and disseminating official statistics related to the socio economic condition of the country. This survey was conducted at the request of ICTAD (Institute for Construction Training and Development) presently CIDA (Construction Industry Development Authority). Since then the DCS has been conducting this survey annually but in some instances once in two years for providing important statistical indicators related to the construction sector of the country.

The objective of this survey is to provide present statistical indicators on value added and employment in the construction sector in the country.

This Construction Survey (2016) is the 18th in the series of surveys the Department has conducted so far.

SCOPE AND COVERAGE

All construction activities undertaken by the private, government and semi-government contractors who were registered with CIDA along with the construction activities listed at the Economic Census were covered in this survey.

For the data collection process activities were categorized according to the following classification.

1. Construction of buildings
2. Construction of roads and railways
3. Construction of utility projects
4. Construction of other civil engineering projects
5. Demolition and site preparation
6. Electrical, plumbing and other construction installation activities
7. Building completion and finishing
8. Other specialized construction activities

The construction activities done in their own by the householders and the construction establishments which were

not registered with CIDA including the foreign funded contracts and the construction activities were not in function during 2013 were not covered in this survey.

2. METHODOLOGY

Frame

This survey was done covering the establishments registered with CIDA for the year 2015 in a full enumerate a sample drawn from the list of establishments from the Economic Census 2013/14. The number of establishments considered for full enumeration was 1195 and the sample drawn from the economic census was 359.

Coverage

The data were collected according to the different construction activities mentioned above. It was observed that the contractors were not able to provide information such as intermediate consumption to calculate value added for different type of activities they carried out during the reference year 2015. Therefore the questionnaire was simplified to collect data required, for the survey to avoid the burden of the respondents and to get the maximum

information from the establishments for data analysis.

Information collected

Following information was collected through the questionnaire, for this survey.

- Total value of contract
- Value of work done
- Value of raw materials consumed
- Employment and salaries
- Expenditure for other services
- Receipts for other services
- Fixed assets

Method of data collection

The questionnaire was mailed to the industries and a reminder was posted to the non-responding establishments after the deadline of submitting the completed questionnaire. The response rate of this survey was very low and several attempts were taken to improve this situation. For instance officers of the DCS were sent to the establishment to collect information with their assistance. It was a tedious task for the officers who were entrusted with this responsibility to get appointment to see the particular

respondent of the industry, as they do not like to spend their time to provide necessary information.

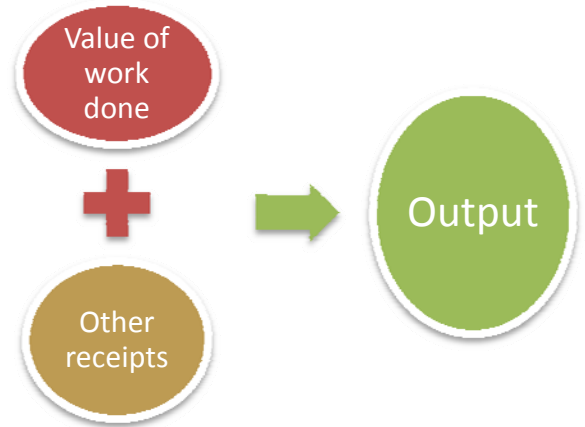
CONCEPTS AND DEFINITIONS

Reference Period: Data collected for this survey is related to the construction activities carried out during the calendar year 2015 or financial year (2015 April to 2016 March).

Employment: This refers to the average number of persons engaged in construction activities during the reference period, including working proprietors/ active partners, unpaid family workers, skilled & unskilled operatives, administration/ managerial, technical/ supervisory, clerical and related and all other paid workers.

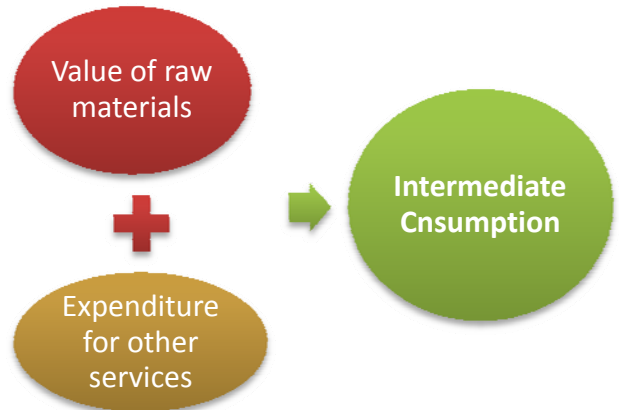
Salaries & Wages: Amounts paid as salaries, wages or sub-contract for the work done during the period.

Output: Value of the work done during the year 2015 (15/16 if financial year is considered)



Intermediate Consumption:

Expenditure on raw materials & other services.



Value Added: Value added has been defined as the difference between the value of output and value of intermediate consumption.



3. SURVEY RESULTS

It should be mentioned that the frame of the survey included the construction industries registered with CIDA in 2015 and the construction industries recorded at the Economic census 2013/14. The results may be excluding the construction industries recently commenced if they are not registered with the CIDA.

The data analysis reveals the performance of the construction industry during the year 2015. The economic related indicators compiled from this survey are described below.

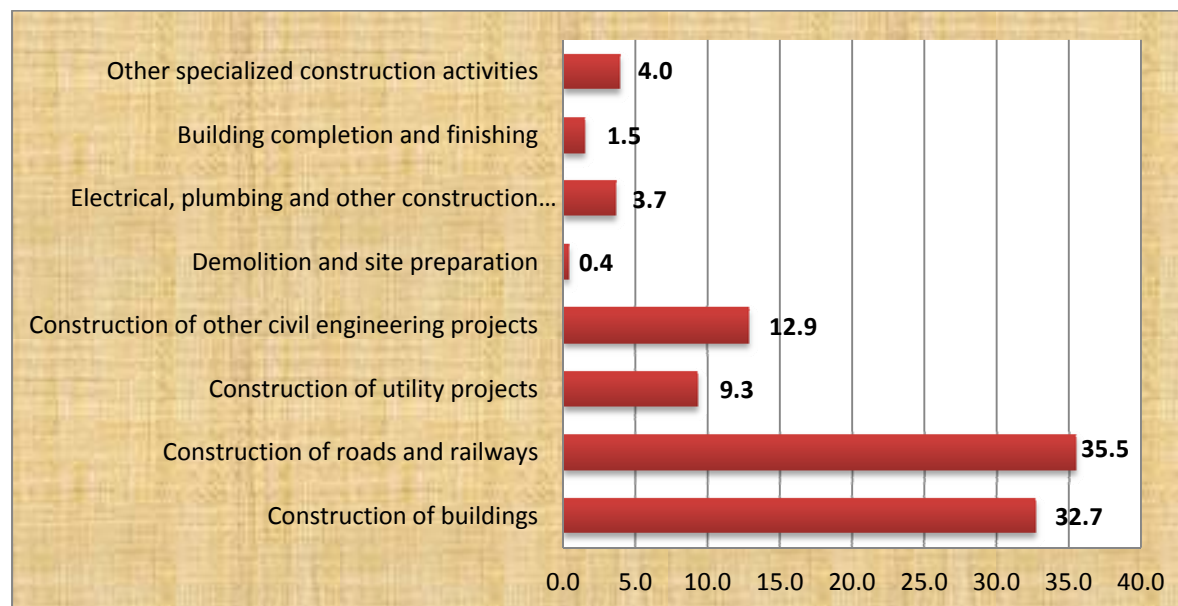
- ❖ Total estimated value of work done by all type of construction activities in Sri Lanka was Rs. 267,115 Million.
- ❖ The highest contribution (35.5%) to this total value has been made by the Roads & Railways construction activities, which was Rs. 94,755 Million.
- ❖ The value of work done for construction of buildings was Rs.

87,357 Mn., the percentage of which to the total is around 33%.

- ❖ Construction of other civil engineering projects and construction of utility projects contributed 13%, and 9% to the total work done during 2015.

Table 3.1 : Distribution of Value of work done by type of construction activity - 2015

Type of Construction Activity	Value of work done (Rs.)	%
Construction of buildings	87,357	32.7
Construction of roads and railways	94,755	35.5
Construction of utility projects	24,834	9.3
Construction of other civil engineering projects	34,524	12.9
Demolition and site preparation	1,124	0.4
Electrical, plumbing and other construction installation activities	9,880	3.7
Building completion and finishing	4,011	1.5
Other specialized construction activities	10,630	4.0
Total	267,115	100.0

Figure 3.1: Distribution of Value of work done by type of construction activity - 2015

Total Value of contract : The total value of the project is termed as the value of contract as the data collection is done from the contractors. This contract may take more than one year. The value of work done during the reference year is a part of the total value of the contract in some projects which lasts for more than one year.

Table 3.2 : Distribution of Total Contract Value by type of construction activity – 2015

Type of Construction Activity	Value of Contract (Rs. Mn)	%
Construction of buildings	143,664	25.3
Construction of roads and railways	258,977	45.6
Construction of utility projects	51,996	9.2
Construction of other civil engineering projects	69,874	12.3
Demolition and site preparation	1,124	0.2
Electrical, plumbing and other construction installation activities	15,098	2.7
Building completion and finishing	5,297	0.9
Other specialized construction activities	21,843	3.8
Total	567,873	100.0

Table 3.2 presents the contract value of construction activities by type in the year 2015. Construction of roads & railways records the highest value of contracts (Rs. Mn. 258,977) which is a percentage of

45.6 to the total contract value. This is followed by construction of buildings activity (25.3%) the value of it is Rs. Mn. 143,664.

Figure 3.2: Distribution of Total Contract Value by type of construction activity - 2015

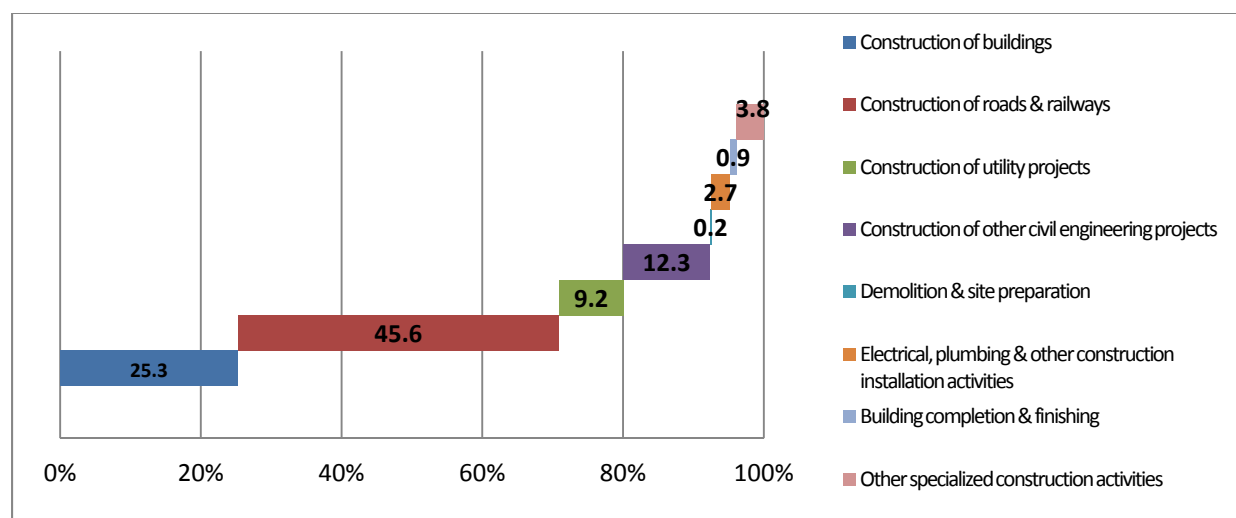


Table 3.3 : Share of Value of Work Done for the Total Value of Contract by type of construction activity - 2015

Type of Construction Activity	Value of Contract (Rs. Mn)	Value of work done (Rs. Mn)	%
Construction of buildings	143,664	87,357	60.8
Construction of roads and railways	258,977	94,755	36.6
Construction of utility projects	51,996	24,834	47.8
Construction of other civil engineering projects	69,874	34,524	49.4
Demolition and site preparation	1,124	1,124	100.0
Electrical, plumbing and other construction installation activities	15,098	9,880	65.4
Building completion and finishing	5,297	4,011	75.7
Other specialized construction activities	21,843	10,630	48.7
Total	567,873	267,115	47.0

Table 3.3 shows the share of value of work done to the total contract value during the year 2015. It reveals that the Roads & Railways construction activities which is the largest value of contract Rs. 258,977 Mn. is contributed the lowest share, which accounted for 36.6 percent.

Sectors of Building construction and Electrical, plumbing & other construction

installation activities have been completed more than half of the activity (project) during the reference period.

The contracts related to the activity demolition and site preparation was 100% complete and building completion and finishing contracts 75.7% complete. The value of these contracts are lower among the other contracts.

Figure 3.3: Share of Value of Work Done for the Total Value of Contract by type of construction activity - 2015

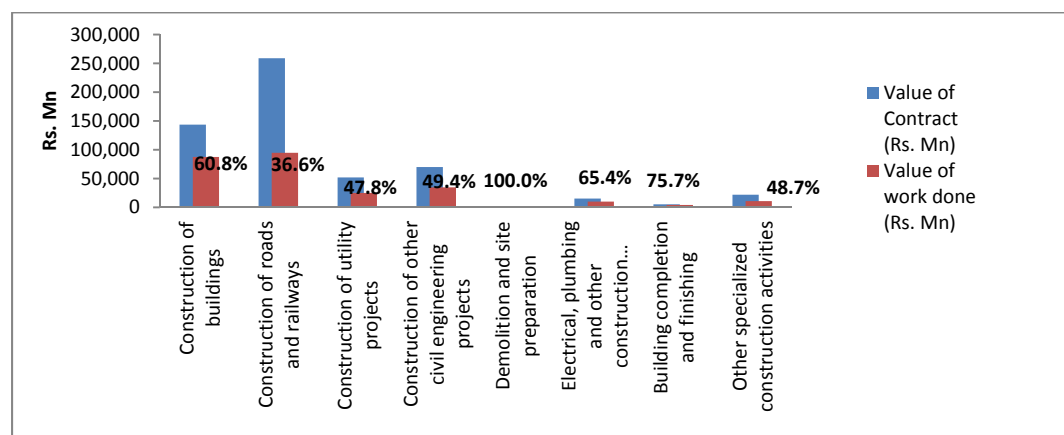


Table 3.4 : Value of Raw Materials consumed of All Construction Activities - 2015

Type of raw material	Value (Rs. Mn)	%
Cement	20,065	19.4
Sand	5,111	4.9
Bricks	2,813	2.7
Rubble & Metal	6,573	6.4
Iron & Steel	18,810	18.2
Timber	2,880	2.8
Roofing materials	3,129	3.0
Other materials	44,039	42.6
Total	103,420	100.0

Table 3.4 shows the value of raw materials consumed of all construction activities during the year 2015. The highest percentage (42.6%) recorded from other materials, such as aluminium, glass, tiles,

pipe fittings, electrical items,etc. Mainly those materials have been consumed for except construction of buildings, roads & railways activities.

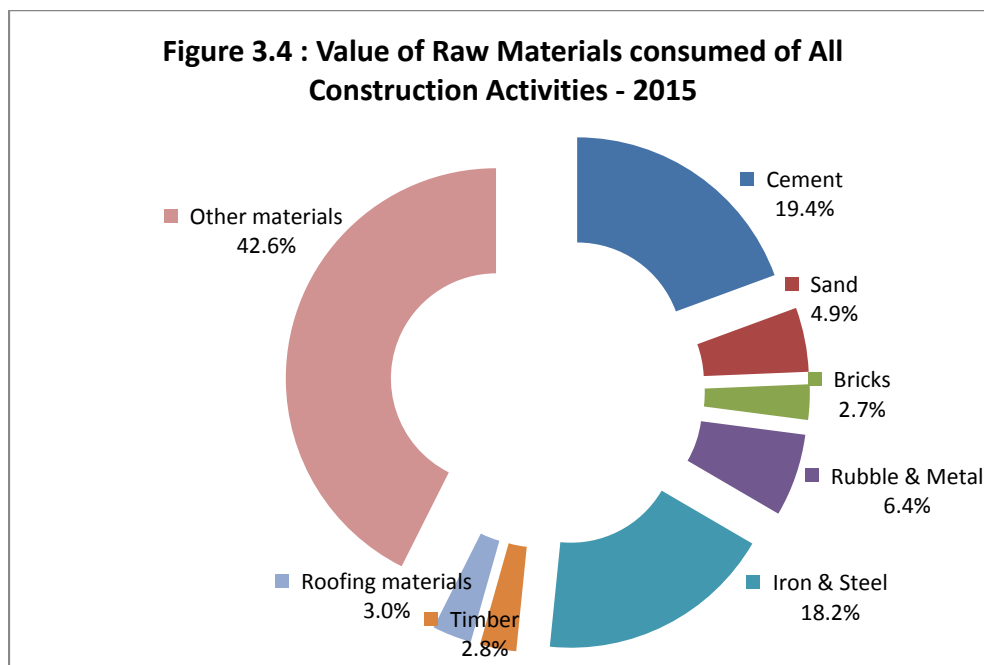


Table 3.5 : Some Selected Indicators of All Construction Activities – 2015

Indicator	All construction activities (Rs. Mn)
Value of Contract	567,873
Value of Work Done	267,115
Intermediate Consumption	189,422
Value Added	113,007
Raw Materials	103,420
Wages & Salaries	55,352

According to the Annual Survey of Construction Industries, the total estimated Value Added by all type of construction activities in Sri Lanka was Rs. 113,007 million in 2015.

4. STATISTICAL APPENDIX

Table 4.1 : Some Selected Indicators of Construction Activities Classified by Type of Construction Activity – 2015

Type of Construction Activity		No. of Activities	Total Value of Contract (Rs.)	Value of work done (Rs.)
410 - Construction of buildings	41001 : Residential buildings	757	32,787,921,038	14,989,273,677
	41002 : Non residential buildings	1,494	60,939,299,396	44,257,041,142
	41003 : Both residential & non residential buildings	1,447	48,126,099,050	26,607,957,940
	41004 : Remodeling or renovating existing residential structures	664	1,811,071,943	1,502,433,228
	Group total	4,362	143,664,391,427	87,356,705,987
421 - Construction of Roads & Railways	42101 : Construction of roads	1,074	236,440,420,217	78,614,071,125
	42103 : Construction of bridges, tunnels	332	17,849,708,644	11,521,045,087
	42109 : Other construction related to roads & railways	65	4,686,750,369	4,620,118,414
	Group total	1,471	258,976,879,229	94,755,234,627
422 - Construction of utility projects	42201 : Construction of pipelines, power lines & communication lines	105	22,628,870,615	4,621,143,712
	42202 : Construction of irrigation systems (canals) & reservoirs	505	28,999,383,200	19,833,800,410
	42203 : Construction of sewer systems, including repair	172	261,426,954	273,220,458
	42207 : Drilling/ construction water wells	73	106,335,815	106,335,815
	Group total	855	51,996,016,584	24,834,500,395
429 - Construction of other civil engineering projects	42901 : Construction of industrial facilities, except buildings, such as refineries, chemical plants	1	3,569,800,000	1,936,700,000
	42902 : Construction of waterways, harbour & river works, pleasure ports (marinas), locks, etc.	31	9,258,547,841	3,241,558,887
	42904 : Construction work of outdoor sports facilities	28	246,772,727	74,031,818
	42905 : Land subdivision with land improvement (e.g. adding of roads, utility infrastructure etc.)	61	88,983,117	88,983,117
	42909 : Construction of other civil engineering n.e.c	65	56,709,468,871	29,182,787,079
	Group total	185	69,873,572,555	34,524,060,901

Table 4.1 : Some Selected Indicators of Construction Activities Classified by Type of Construction Activity – 2015

Type of Construction Activity		No. of Activities	Total Value of Contract (Rs.)	Value of work done (Rs.)
431 - Demolition and site preparation	43110 : Demolition or wrecking of buildings & other structures	3	10,575,000	1,123,632,363
	43121 : Site preparation for buildings	11	1,113,057,363	10,575,000
	Group total	14	1,123,632,363	1,113,057,363
432 - Electrical, plumbing and other construction installation activities	43211 : Installation of electrical wiring & fittings	24	911,297,775	904,049,149
	43219 : Other electrical installation (including alarm systems) n.e.c	21	2,789,821,965	2,789,778,205
	43221 : Installation of plumbing & sanitary equipment	27	915,030,250	915,030,250
	43222 : Installation of ventilation, refrigeration or air-conditioning equipment, non-electric solar energy collectors & ducts	195	8,385,454,170	3,290,148,640
	43223 : Installation of heating systems (electric, gas & oil)	90	776,697,462	753,893,190
	43224 : Installation of fire extinguishers	18	221,480,316	148,647,996
	43229 : Other installation related to plumbing, heat & air conditioning n.e.c	2	134,520,000	136,786,978
	43291 : Installation of elevators, escalators	8	722,477,736	722,477,736
	43299 : Other construction installation n.e.c	82	241,669,528	218,938,691
	Group total	468	15,098,449,201	9,879,750,834

Table 4.1 : Some Selected Indicators of Construction Activities Classified by Type of Construction Activity – 2015

Type of Construction Activity		No. of Activities	Total Value of Contract (Rs.)	Value of work done (Rs.)
433 - Building completion and finishing	43301 : Installation of wooden fittings of buildings (doors, windows, door & window frames, pantry cupboards, ceilings, partitions etc.)	33	52,000,000	52,000,000
	43302 : Installation of aluminium & other steel fittings of buildings (doors, windows, door & window frames, ceilings, partitions etc.)	178	2,206,112,438	2,206,112,438
	43304 : Tiling; .laying terrazzos, mables, granite etc.	83	684,544,682	648,499,227
	43306 : Painting of buildings & civil engineering structures	38	496,790,000	496,790,000
	43308 : Installation of grill gates, grill works for windows etc.	65	32,500,000	32,500,000
	43309 : Other building completion work n.e.c (installations of glass mirrors, furniture, cleaning of buildings after constructionn etc.)	338	1,824,841,801	575,652,529
	Group total	735	5,296,788,920	4,011,554,193
439 - Other specialized construction activities	43901 : Construction of foundations, including pile driving	67	21,546,078,909	10,332,843,927
	43903 : Bricklaying & stone setting	23	16,275,000	16,275,000
	43905 : Construction of shuttering	186	280,570,328	280,570,328
	Group total	276	21,842,924,237	10,629,689,255
Total		8,367	567,872,654,518	267,115,128,555

Table 4.2 : Average No. of Employees & Salaries Classified by type of Employee Category – 2015

Employee Categories		Male	Female	Total	Wages & Salaries
Working Proprietors/ Active Partners		2,994	299	3,294	**
Unpaid Family Workers		509	407	916	**
Operatives	Skilled	61,858	770	62,628	24,985,137,032
	Unskilled	51,803	1,197	53,000	7,909,047,211
Other Employees	Administrative/Managerial	5,188	1,005	6,193	12,394,207,169
	Technical/ Supervisory	16,779	4,745	21,524	4,538,539,081
	Clerical & related	12,545	5,754	18,299	2,942,716,495
	Other	11,852	689	12,541	2,582,294,857
Total		163,529	14,865	178,394	55,351,941,846

** not relevant

Table 4.3 : Number of Establishments by Type of Legal Organization - 2015

Type of Legal Organization	No. of Establishments
sole Ownership	2,446
Partnership	145
Private Limited Liability Co.	733
Public Limited Liability Co.	28
Semi Government	22
Other	33
Total	3,407

Table 4.5 : Average number of employees by Persons engaged size category - 2015

Persons engaged size category	Average No. of Employees		
	Male	Female	Total
Less than 10	5,873	333	6,206
10 - 19	11,822	946	12,768
20 - 49	26,716	1,636	28,352
50 - 99	10,083	450	10,533
100 & above	109,035	11,501	120,536
Total	163,529	14,865	178,394

Table 4.4 : Number of Establishments by Persons engaged size category - 2015

Persons engaged size category	No. of establishments
Less than 10	1,195
10 - 19	957
20 - 49	878
50 - 99	171
100 & above	206
Total	3,407

Table 4.6 : Number of Activities by Type of Construction Activity & Value of Work Done Size Category – 2015

Value of Work Done Size Category (Rs.)	All Activities	No. of Activities							
		410 - Construction of buildings	421 - Construction of roads & railways	422 - Construction of utility projects	429 - Construction of other civil engineering projects	431 - Demolition & site preparation	432 - Electrical, plumbing & other construction installation activities	433 - Building completion & finishing	439 - Other specialized construction activities
Less than 100,000	147	147	-	-	-	-	-	-	-
100,000 - 999,999	2,495	1,508	289	117	26	-	165	302	88
1,000,000 - 9,999,999	3,673	1,945	675	426	86	-	166	266	109
10,000,000 - 99,999,999	1,642	917	266	224	2	-	84	112	37
100,000,000 - 499,000,000	273	97	89	15	23	9	16	-	24
500,000,000 & above	137	23	52	9	35	-	18	-	-
Total	8,367	4,637	1,371	791	172	9	449	680	258