



# **SURVEY OF CONSTRUCTION INDUSTRIES**



**Final Report  
2017/18**

**DEPARTMENT OF CENSUS AND STATISTICS  
STATE MINISTRY OF ECONOMIC AND POLICY DEVELOPMENT**



# **SURVEY OF CONSTRUCTION INDUSTRIES - 2017/18**

## **FINAL REPORT**

**April 2020**

DEPARTMENT OF CENSUS AND STATISTICS  
STATE MINISTRY OF ECONOMIC AND POLICY DEVELOPMENT



## **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, the Department had undertaken it regularly.

DCS has been conducting this survey annually with some exception where this was conducted biennially. This is the 19th survey on construction industry which was conducted by the DCS. 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. Moreover the information of this survey provide valuable information to formulation the Gross Domestic Product for the country. The contribution of construction sector to the GDP is an important indicator which is estimated based on survey findings. According to the Survey of Construction Industries 2017/18, the total estimated Value Added by all type of construction activities in Sri Lanka was Rs. 174,229 million.

This report gives estimates only for the construction activities registered under CIDA and the information given by the sector for the reference year 2017. Hope the findings of this report would be very useful to make evidence based decisions for the country.

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## **ACKNOWLEDGEMENT**

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The planning and implementation of the survey activities were carried out by Ms. G.D.N. Munasinghe, Statistician with the support of Ms. W.M.B.K. Nawarathna, Statistical Officer under the supervision of Ms. U. Maheshwaran, Director of Industry, Construction, Trade & Services Division of the Department of Census and Statistics. Contributions made by following officers are acknowledged with great appreciation.

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- Mr. J.S.N.P. Dharmawardhana, Senior Statistician, in selecting sample for the survey.
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- Mr. R.M.P. Dharmapriya, ICT Assistant, in preparing data entry programme.
- Ms. H.P.L. Jayarathna, Statistician, in designing the summary data using infographics.
- Ms. M.A.F. Nusrath, Coding Clerk, in designing the cover page.

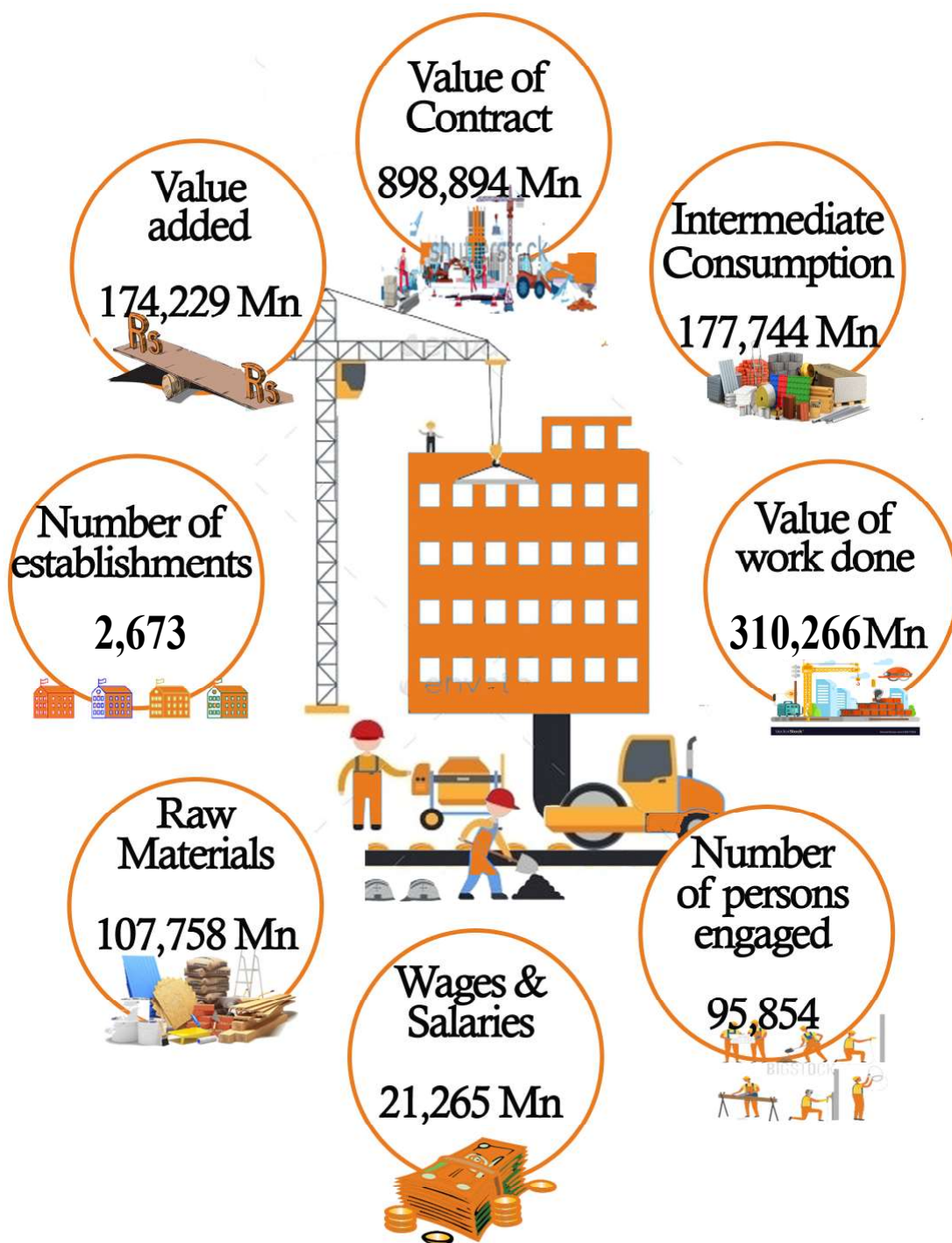
Data collection was done by the District Statistical Officers/ Statistical Assistants under the supervision of District Senior Statisticians/ Statisticians. Follow up data collection was carried out by the staff of Industry, Construction, Trade & Services Division under the supervision of Senior Statisticians and Statisticians of the Division. The contribution made by Ms. S.S. Opanayaka, Statistical Officer in preparing the document in a printable format is also acknowledged.

The construction industries that were selected for data collection for this survey and extended their support to the DCS by providing their valuable information are highly appreciated.





# Some Selected Indicators of All Construction Activities - 2017/2018





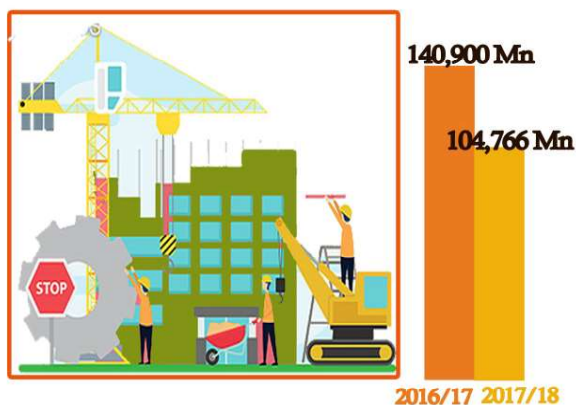
**Value of work done by type of construction activity in last 3 years  
(2015/16, 2016/17, 2017/18)**

Type of Construction Activity	Value of work done					
	2015/16		2016/17		2017/18	
	Rs. Mn.	%	Rs. Mn.	%	Rs. Mn.	%
Construction of buildings	87,357	32.7	140,900	44.1	104,766	33.8
Construction of roads and railways	94,755	35.5	106,030	33.2	128,374	41.4
Construction of utility projects	24,834	9.3	52,642	16.5	57,774	18.6
Construction of other civil engineering projects	34,524	12.9	7,520	2.4	2,467	0.8
Demolition and site preparation	1,124	0.4	73	0.0	1,163	0.4
Electrical, plumbing and other construction installation activities	9,880	3.7	9,064	2.8	12,719	4.1
Building completion and finishing	4,011	1.5	3,089	1.0	2,817	0.9
Other specialized construction activities	10,630	4.0	314	0.1	186	0.1
<b>Total</b>	<b>267,115</b>	<b>100.0</b>	<b>319,632</b>	<b>100.0</b>	<b>310,266</b>	<b>100.0</b>

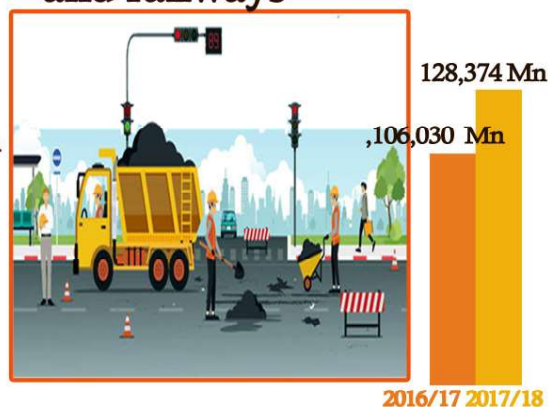


# Type of Construction Activity : Value of Work Done

## Construction of buildings



## Construction of roads and railways



## Electrical, plumbing and other construction installation activities



## Other activities



## Construction of utility projects







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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) on 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.

Though it is expected to give indicators that represent the country this survey has some limitations in coverage. The practical difficulties in obtaining a frame of construction activities carried out in the country has resulted to use the list of contractors registered in the CIDA to be used as the sample frame.

The construction activities carried out through foreign companies may not be in the CIDA registration list. But, the sub contracts given by foreign projects to

local contractors registered in the CIDA are covered. Collecting data by projects and the expenditure by the sub contracts were not met in this survey.

This Construction Survey (2017/18) is the 19th in the series of construction 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. For the data collection process the 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 activities were not in function during 2017/18 were not covered in this survey.

## 2. METHODOLOGY

### FRAME

This survey was done covering the establishments registered with CIDA for the year 2017 by two ways a full enumeration of large contractors and a sample drawn from others for enumeration. The number of establishments considered for full enumeration was 469 and the sample was 732.

### 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 2017/18. 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
- Own account capital formation

### 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 2017 or financial year (2017 April to 2018 March).

### Employment:

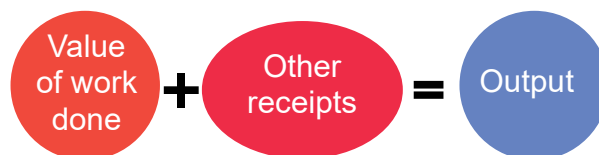
This refers to the average number of persons engaged in construction activities during the reference period, including working proprietors/ active partners, unpaid family workers, operatives, administration/ managerial, technical/ supervisory, clerical and related and all other paid workers.

### Salaries & Wages:

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

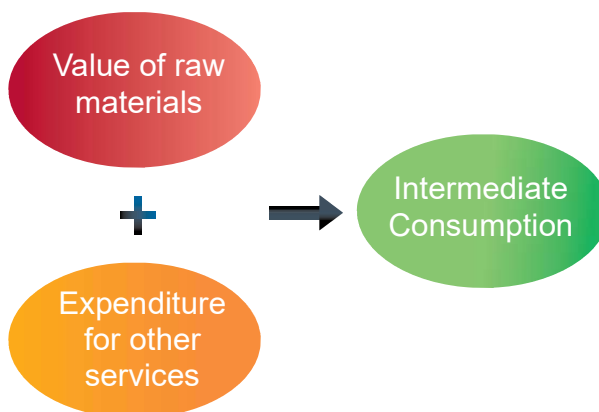
### Output:

Value of the work done during the year 2017 (17/18 if financial year is considered)



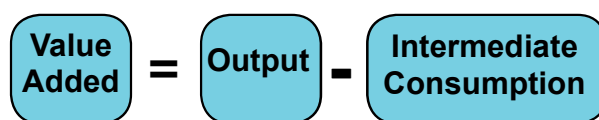
### Intermediate Consumption:

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 2017. 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 2017/18. The economic related indicators compiled from this survey are described below.

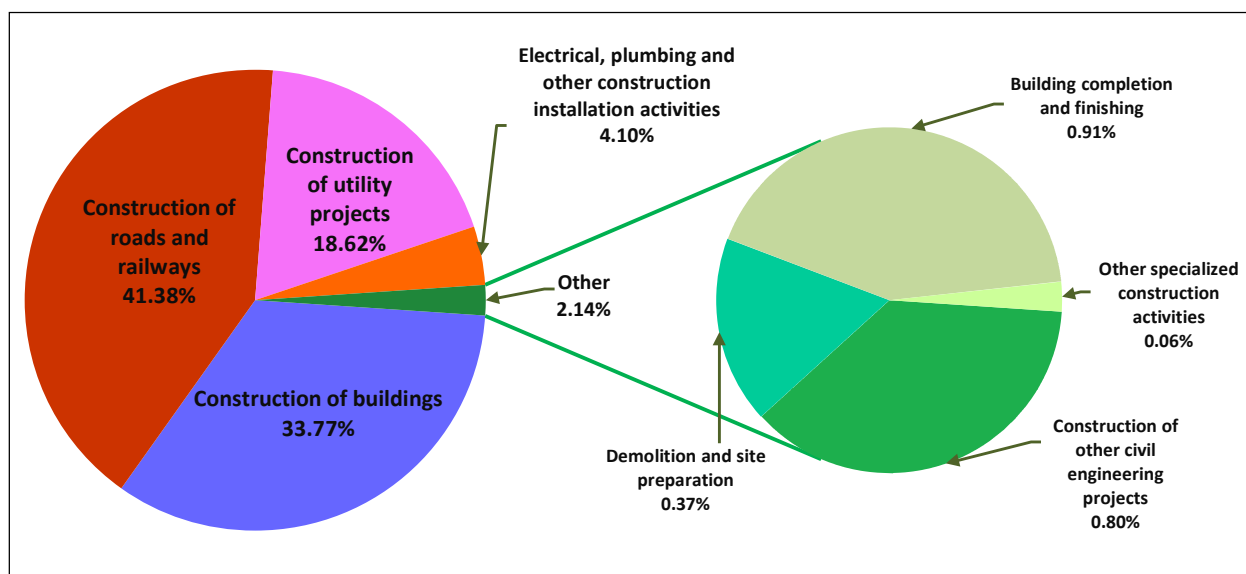
- ★ Total estimated value of work done by all type of construction activities in Sri Lanka was Rs. 310,266 Million.
- ★ The highest contribution (41.4%) to this total value has been made by the construction of roads & railways, which was Rs. 128,374 Million.
- ★ The value of work done for construction of buildings was Rs. 104,766 Mn., the percentage of which to the total is around 33.7%.

- ★ Construction of utility projects contributed outstanding rate (18.6%) to the total work done during the year 2017/18.

**Table 3.1: Distribution of Value of work done by type of construction activity – 2017/18**

Type of construction activity	Value of work done (Rs. Mn)	%
Construction of buildings	104,766	33.7
Construction of roads and railways	128,374	41.4
Construction of utility projects	57,774	18.6
Construction of other civil engineering projects	2,467	0.8
Demolition and site preparation	1,163	0.4
Electrical, plumbing and other construction installation activities	12,719	4.1
Building completion and finishing	2,817	0.9
Other specialized construction activities	186	0.1
<b>Total</b>	<b>310,266</b>	<b>100.0</b>

Figure 3.1: Distribution of value of work done by type of construction activity – 2017/18



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.

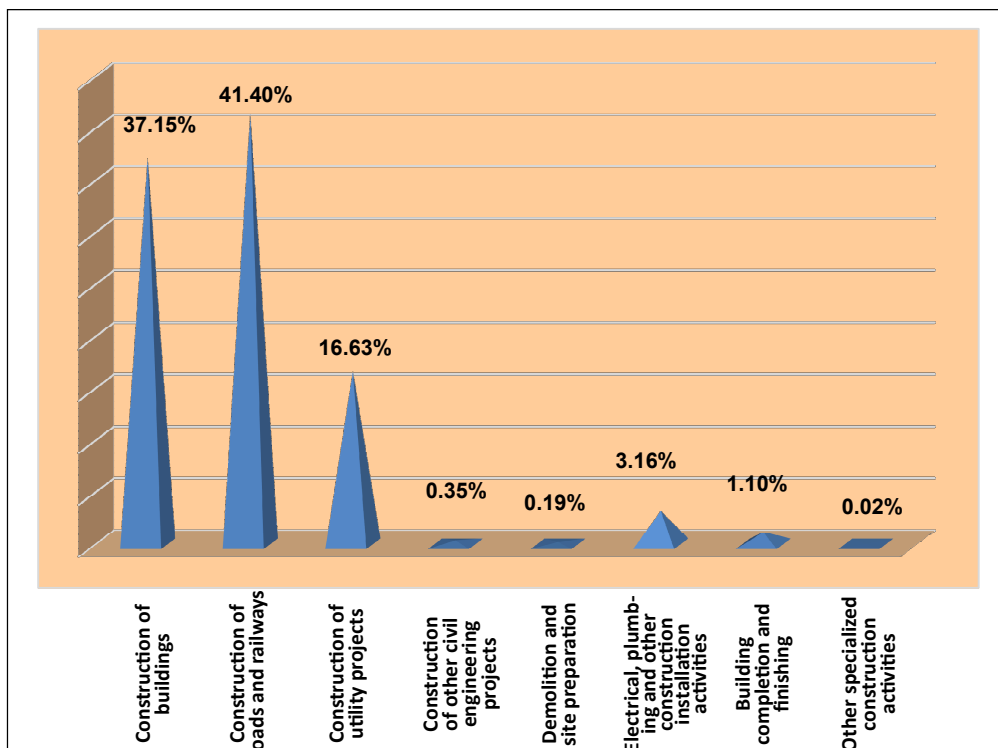
Table 3.2: Distribution of total contract value by type of construction activity – 2017/18

Type of construction activity	Value of contract (Rs. Mn)	%
Construction of buildings	333,958	37.2
Construction of roads and railways	372,133	41.4
Construction of utility projects	149,458	16.6
Construction of other civil engineering projects	3,153	0.4
Demolition and site preparation	1,690	0.2
Electrical, plumbing and other construction installation activities	28,392	3.2
Building completion and finishing	9,924	1.1
Other specialized construction activities	186	0.0
<b>Total</b>	<b>898,894</b>	<b>100.0</b>

Table 3.2 and figure 3.2 present the distribution of total contract value by type of construction activity in the year 2017/18. Construction of roads & railways records the highest value of contracts

(Rs.Mn. 372,133) which is 41.4 percent-age to the total contract value followed by construction of buildings activity (37.2%). The value of this activity reported as Rs. Mn. 333,958.

**Figure 3.2: Distribution of Total Contract Value by type of construction activity – 2017/18**



**Table 3.3 : Share of value of work done for the total value of contract by type of construction activity – 2017/18**

Type of construction activity	Value of contract (Rs. Mn)	Value of work done (Rs. Mn)	%
Construction of buildings	333,958	104,636	31.3
Construction of roads and railways	372,133	128,504	34.5
Construction of utility projects	149,458	57,774	38.7
Construction of other civil engineering projects	3,153	2,467	78.2
Demolition and site preparation	1,690	1,163	68.8
Electrical, plumbing and other construction installation activities	28,392	12,719	44.8
Building completion and finishing	9,924	2,817	28.4
Other specialized construction activities	186	186	100.0
<b>Total</b>	<b>898,894</b>	<b>310,266</b>	<b>34.5</b>



Table 3.3 further revealed the share of value of work done to the total contract value during the year 2017/18. It reveals that the roads & railways construction activities which is the largest value of contract Rs. 372,133 Mn. is contributed more than one third of work done which accounted for 34.5 percent. Lowest share was recorded from the building completion and finishing (28.4 percent).

Sectors of other civil engineering projects has been completed more than 75 percent of the activity (project) and Demolition and site preparation has been completed nearly 70 percent of the projects.

The contracts related to the other specialized construction activities were 100% complete. All other activities have been completed more than one third of the total contract.

**Figure 3.3 : Share of value of work done for the total value of contract by type of construction activity – 2017/18**

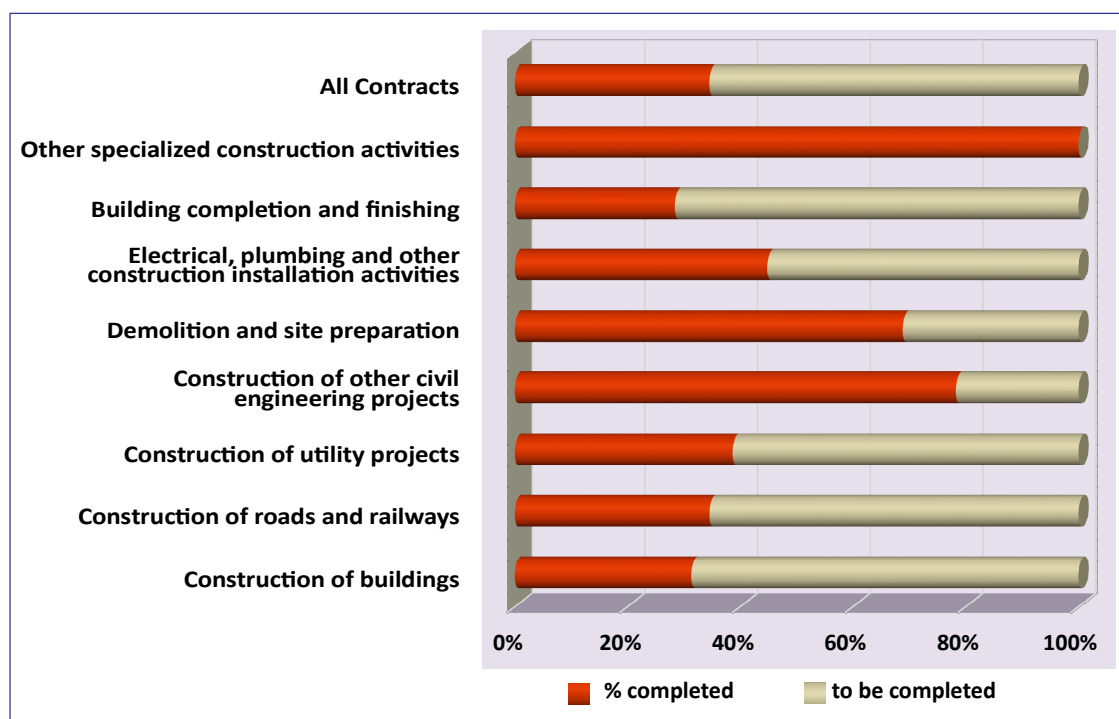


Figure 3.3 shows the percentage of work done of the project during the reference period.

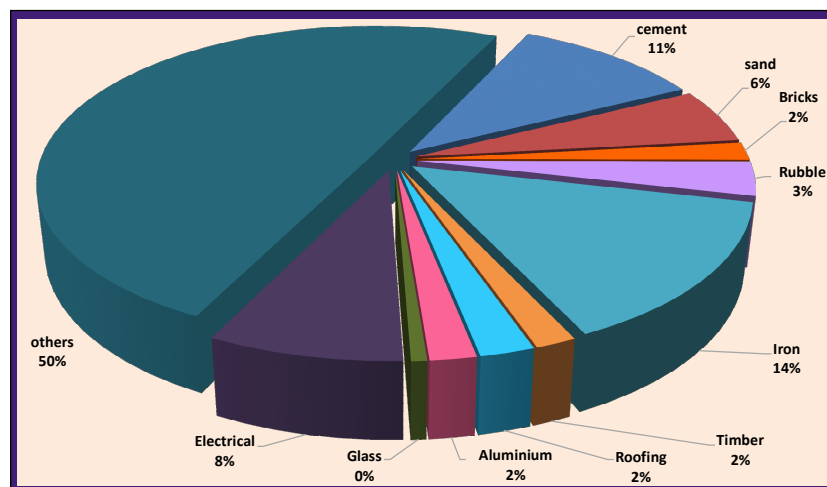
All other activities except building construction and building completion and finishing have been completed more than one third of the total contracts.

**Table 3.4 : Value of raw materials consumed of all construction activities – 2017/18**

Type of raw material	Value (Rs. Mn)	%
cement	11,519	10.7
sand	6,073	5.6
Bricks	1,954	1.8
Rubble & Metal	3,736	3.5
Iron & Steel	15,587	14.5
Timber	1,790	1.7
Roofing materials	2,376	2.2
Aluminium	2,022	1.9
Glass	684	0.6
Electrical items	8,474	7.9
Other materials	53,543	49.7
<b>Total</b>	<b>107,758</b>	<b>100.0</b>

Table 3.4 shows the value of raw materials consumed of all construction activities during the year 2017/18. It has to be mentioned here the categorization of other materials could not be given in break down as the percentages of each is very small. The highest percentage (49.7%) recorded from other materials. Mostly those materials have been consumed for all the other construction activities except construction of buildings, roads & railways.

**Figure 3.4 : Value of raw materials consumed of all construction activities – 2017/18**



The percentage value of Iron & Steel consumed to the construction activities was 14.5 while the percentage of cement consumed was 10.7%.

## 4. STATISTICAL APPENDIX



Table 4.1 :Some selected indicators of construction activities classified by type of construction activity - 2017/18

	Type of construction activity	No. of activities	Total value of contract (Rs.)	Value of work done (Rs.)
410 - construction of buildings	41001 : Residential buildings	195	4,917,735,227	3,846,306,654
	41002 : Non residential buildings	756	311,665,053,421	91,413,176,643
	41003 : Both residential & non residential buildings	251	14,229,677,597	7,258,650,253
	41004 : Remodeling or renovating existing residential structures	583	3,144,974,391	2,247,873,056
	<b>Group total</b>	<b>1,785</b>	<b>333,957,440,636</b>	<b>104,766,006,606</b>
421 - construction of roads & railways	42101 : Construction of roads	1,044	358,624,902,376	120,894,292,656
	42103 : Construction of bridges, tunnels	119	12,508,982,455	6,725,454,659
	42104 : Construction of runways	4	767,647,059	522,302,794
	42109 : Other construction related to roads & railways	52	231,813,643	231,813,643
	<b>Group total</b>	<b>1,219</b>	<b>372,133,345,533</b>	<b>128,373,863,752</b>
422 - construction of utility projects	42201 : Construction of pipelines, power lines & communication lines	165	61,610,256,958	18,477,416,688
	42202 : Construction of irrigation systems (canals) & reservoirs	241	66,719,499,233	31,399,688,118
	42203 : Construction of sewer systems, including repair	169	11,551,050,093	4,307,482,593
	42205 : Construction of power plants	3	637,000,000	423,874,565
	42206 : Construction of communication towers	3	8,836,750,000	3,062,341,562
	42207 : Drilling/ construction water wells	26	103,391,304	103,391,304
	<b>Group total</b>	<b>607</b>	<b>149,457,947,588</b>	<b>57,774,194,830</b>
429 - construction of other civil engineering projects	42902 : Construction of waterways, harbour & river works, pleasure ports (marinas), locks, etc.	84	58,204,257	58,204,257
	42903 : Dredging of waterways	14	42,800,000	42,800,000
	42904 : Construction work of outdoor sports facilities	9	2,177,861,176	1,648,748,764
	42909 : Construction of other civil engineering n.e.c	140	873,817,318	717,006,731
	<b>Group total</b>	<b>247</b>	<b>3,152,682,751</b>	<b>2,466,759,752</b>

Table 4.1 : some selected indicators of construction activities classified by type of construction activity - 2017/18

Type of construction activity		No. Of activities	Total value of contract (Rs.)	Value of work done (Rs.)
431 - Demolition and site preparation	43122 : Site preparation for other construction, site preparation for mining and for drainage	12	1,690,410,339	1,162,988,047
	<b>Group total</b>	<b>12</b>	<b>1,690,410,339</b>	<b>1,162,988,047</b>
432 - Electrical, plumbing and other construction installation activities	43211 : Installation of electrical wiring & fittings	24	12,306,770,018	5,893,436,685
	43212 : Installation of telecommunications wiring	4	8,951,869	8,951,869
	43213 : Installation of computer network and cable television wiring, including fibre optic	14	2,508,909,732	2,508,909,732
	43219 : Other electrical installation (including alarm systems) n.e.c.	2	128,529,028	128,529,028
	43221 : Installation of plumbing and sanitary equipment	19	12,240,592	12,240,592
	43222 : Installation of ventilation, refrigeration or air-conditioning equipment, non-electric solar energy collectors and ducts	18	9,507,333,333	2,990,000,000
	43223 : Installation of heating systems (electric, gas and oil)	4	8,266,446	6,116,091
	43224 : Installation of fire extinguishers	9	3,466,666,667	780,000,000
	43229 : Other installation related to plumbing, heat and air conditioning n.e.c	9	253,933,333	201,933,333
	43293 : Installation of lightning conductors	33	190,534,212	189,194,412
	<b>Group total</b>	<b>136</b>	<b>28,392,135,230</b>	<b>12,719,311,742</b>

Table 4.1 : Some selected indicators of construction activities classified by type of construction activity - 2017/18

	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.)	14	1,016,899	1,016,899
	43302 : Installation of aluminium & other steel fittings of buildings (doors, windows, door & window frames, ceilings, partitions etc.)	39	6,943,210,256	1,743,210,256
	43303 : Installation of amano fittings for the buildings (gutters etc.)	26	16,980,910	16,980,910
	43304 : Tiling; laying terrazzos, mables, granite etc.	30	39,638,543	39,638,543
	43306 : Painting of buildings & civil engineering structures	4	2,339,788	2,339,788
	43307 : Installation of fittings of steal, stainless steel (staircase frames, balcony fences etc.)	20	3,856,707	3,856,707
	43309 : Other building completion work n.e.c (installations of glass mirrors, furniture, cleaning of buildings after constructionn etc.)	34	2,916,683,551	1,010,016,884
	<b>Group total</b>	<b>167</b>	<b>9,923,726,654</b>	<b>2,817,059,987</b>
439 - Other specialized construction activities	43903 : Bricklaying and stone setting	16	29,577,289	29,577,289
	43908 : Renting of cranes, backhoes or other construction equipment and machinery with operator	54	114,133,333	114,133,333
	43909 : Other specialized construction activities n.e.c.	4	42,647,059	42,647,059
	<b>Group total</b>	<b>74</b>	<b>186,357,681</b>	<b>186,357,681</b>
<b>Total</b>		<b>4,247</b>	<b>898,894,046,412</b>	<b>310,266,542,397</b>

Table 4.2 : Average no. of employees &amp; salaries classified by type of employee category - 2017/2018

Employee categories		Male	Female	Total	Wages & salaries
Working proprietors/ Active partners		1,971	226	2,197	**
Unpaid family workers		561	240	801	**
Operators		50,685	695	51,380	8,199,272,486
Other employees	Administrative/ Managerial	4,278	831	5,109	3,206,135,685
	Technical/ Supervisory	10,818	1,182	12,000	3,883,939,652
	Clerical & related	2,576	1,221	3,797	1,736,731,087
	Other	19,173	1,397	20,570	4,238,898,508
<b>Total</b>		<b>90,062</b>	<b>5,792</b>	<b>95,854</b>	<b>21,264,977,418</b>

\*\* not relevant



Table 4.3 : Number of activities by type of construction activity &amp; value of work done size category - 2017/18

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	46	16	-	-	-	-	-	30	-
100,000 - 999,999	909	277	242	155	119	-	23	93	-
1,000,000 - 9,999,999	2,454	1,087	758	372	115	-	41	22	59
10,000,000 - 99,999,999	612	345	170	45	5	4	20	14	9
100,000,000 - 499,000,000	169	48	28	19	9	8	48	9	-
500,000,000 & above	57	17	21	19	-	-	-	-	-
Total	4,247	1,790	1,219	610	248	12	132	168	68

Table 4.4 : Number of establishments by type of legal organization - 2017/2018

Type of legal Organization	No. Of establishments
Sole ownership	2,256
Partnership	171
Private limited liability co.	216
Public limited liability co.	3
Co-operative society	4
Semi government	22
<b>Total</b>	<b>2,673</b>

Table 4.5: Number of establishments by persons engaged size category - 2017/2018

Persons engaged size category	No. of establishments
Less than 10	1431
10 - 19	528
20 - 49	551
50 - 99	70
100 & above	92
<b>Total</b>	<b>2,673</b>

