

Construction Management:

Economic Importance of construction industry

Table 2. Sectoral Share of GDP at Current Prices, 2013-14 to 2016-17(p)

Industrial origin sector	2013-14	2014-15	2015-16	2016-17(p)
A. Agriculture	16.11	15.51	14.77	14.22
1. AGRICULTURE AND FORESTRY	12.81	12.21	11.55	11.01
a) Crops & horticulture	9.21	8.73	8.15	7.73
b) Animal Farmings	2.16	2.07	2.01	1.91
c) Forest and related services	1.44	1.42	1.39	1.37
2. FISHING	3.30	3.29	3.22	3.21
B Industry	27.61	28.15	28.77	29.25
3. MINING AND QUARRYING	1.65	1.65	1.73	1.85
a) Natural gas and crude petroleum	0.64	0.64	0.65	0.68
b) Other mining & coal	1.01	1.02	1.08	1.18
4. MANUFACTURING	17.43	17.61	17.91	18.14
a) Large & medium scale	14.09	14.26	14.58	14.78
b) Small scale	3.35	3.36	3.34	3.35
5. ELECTRICITY, GAS AND WATER SUPPLY	1.44	1.37	1.45	1.38
a) Electricity	1.08	1.04	1.12	1.07
b) Gas	0.29	0.26	0.26	0.24
c) Water	0.07	0.07	0.07	0.07
6. CONSTRUCTION	7.09	7.51	7.67	7.88

http://bbs.portal.gov.bd/...GDP_2016_17_Approved.pdf

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Table 3. Sectoral Growth Rate of GDP at Current Prices,2013-14 to 2016-17(p)

Industrial origin sector	2013-14	2014-15	2015-16	2016-17(p)
A. Agriculture	11.05	8.63	8.62	8.66
1. AGRICULTURE AND FORESTRY	10.22	7.64	7.83	7.63
a) Crops & horticulture	10.40	6.97	6.50	6.99
b) Animal Farmings	9.10	8.02	10.98	7.27
c) Forest and related services	10.80	11.39	11.38	11.93
2. FISHING	14.36	12.47	11.55	12.38
B. Industry	12.09	15.04	16.51	14.78
3. MINING AND QUARRYING	8.32	13.26	19.69	20.45
a) Natural gas and crude petroleum	2.55	12.65	16.52	17.35
b) Other mining & coal	12.31	13.65	21.68	22.30
4. MANUFACTURING	13.24	14.01	15.96	14.28
a) Large & medium scale	13.84	14.20	16.59	14.47
b) Small scale	10.75	13.19	13.31	13.44
5. ELECTRICITY, GAS AND WATER SUPPLY	12.33	7.98	19.94	7.70
a) Electricity	13.69	8.88	22.48	8.16
b) Gas	6.63	3.01	13.01	4.76
c) Water	16.42	14.48	8.14	11.39
6. CONSTRUCTION	10.19	19.43	16.47	15.99

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Construction Management:

Typical sectors of Construction Industry

- a) Buildings and Housing work
- b) Roads
- c) Earth moving and site leveling works
- d) Canals and drainage work
- e) Dams
- f) Industrial structures, railway works
- g) Power Plants
- h) Water Treatment Plants

Construction Management:

Construction – “creation, renovation, repair and demolition of immobile structures and the alteration of natural topography of the ground”

It's a process of translating plans, specifications and resources into a physical facility to meet the specific requirements of stakeholders within schedule, cost and quality

Construction Management:

Management Process

I. Planning and decision making

Planning has four goals

- To offset uncertainty and change
- To focus attention on objectives
- To make economic operations possible
- To assist managers to control

Factors Influencing the effectiveness of a decision

- Quality of a decision based on aim, cost and time
- Acceptability of a decision

Construction Management:

Management Process

2. Organizing

- Formal grouping of activities and resources to avoid confusion, conflict, duplication and proper usage of resources
- Framework for action (whom to report, what to expect)

Factors Influencing the effectiveness of a decision

- Quality of a decision based on aim, cost and time
- Acceptability of a decision

Construction Management:

Management Process

3. Staffing

Process of obtaining and maintaining capable and competent people to fill all positions from top management level to operating level

Its an executive function involving

- recruitment
- selection
- compensation
- training
- retainment and
- retirement

Construction Management:

Management Process

4. Direction and communication

Direction is managerial function of guiding, motivating, leading and supervising the team to achieve set objectives

Direction bridges gap between managerial decisions and actual implementations.

Communications – influencing and inducing people to interpret and idea in the manner intended by the speaker

Construction Management:

Management Process

5. Controlling

Regulation of work activity in accordance with predetermined plans to ensure accomplishment of organizational objectives

Construction control refers to that control when corrective action is taken before major damage

Construction Management:

Problems encountered in Construction Industry

- a) Time overruns - Factors affecting time overruns are;
- Extent of resource mobilisation
 - Degree of mechanization planned
 - Fund flow by client and contractor
 - Lack of clarity in project formulation/goals
 - Constant revision of goals during execution
 - Natural and man made problems

Construction Management:

Problems encountered in Construction Industry

- b) Cost overruns – Owners role is appeared to be significant compared to contractor's role. Factors affecting cost overruns are;
- Framing unrealistic estimates for tendering or not updating already framed estimates prior to the event of tendering
 - Setting unrealistic schedules not in harmony with resource mobilisation
 - Scope variation in post contract award stage
 - Owners obligation not fulfilled (handing over clear site, issue of stipulated materials and timely release of construction drawing)
 - Lack of proper resource management
 - Poor quality construction that need to be replaced

Construction Management:

Problems encountered in Construction Industry

c) Deficiencies in quality of work –

- Materials and workmanship are two important parameters
- Prior approval of sample materials and sample workmanship are necessary for ensuring quality of work
- Role of supervisor and contractor are significant to ensure in situ work

Construction Management:

Problems encountered in Construction Industry

d) Lack of harmony

Factors leading to disharmony are:

- Contract administration is not fair in its dealings
- Decisions are not prompt
- Harsh interpretation of contract conditions which are one-sided and unbalanced
- Dispute resolution is time-consuming
- Selection of lowest bidder who is incompetent for the work
- Conflict between main and sub-contractor
- Unworkable rates of items