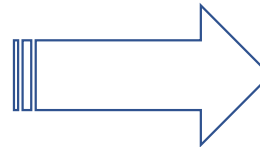


# WORK BREAKDOWN STRUCTURE (WBS)

REFER NUMBER CODE AS PER CSI  
MASTERFORMAT



PREPARE SCOPE OF  
WORKS (SOW) FOR ALL  
CONTRACTS



# ABSTRACT BILL OF QUANTITIES

- MAKE THUMB-RULES FOR SIMILAR TYPE OF PROJECTS IN TERMS OF AREA AND PERIMETER E.G. PLASTERING AREA / PLINTH AREA; BLOCKWORK CFT / PLINTH AREA ETC FOR QUICK CONTROL.
- RE-USE INFORMATION FROM PREVIOUS PROJECTS IF YOU WANT TO MAKE QUICK BOQ FOR NEW PROJECTS

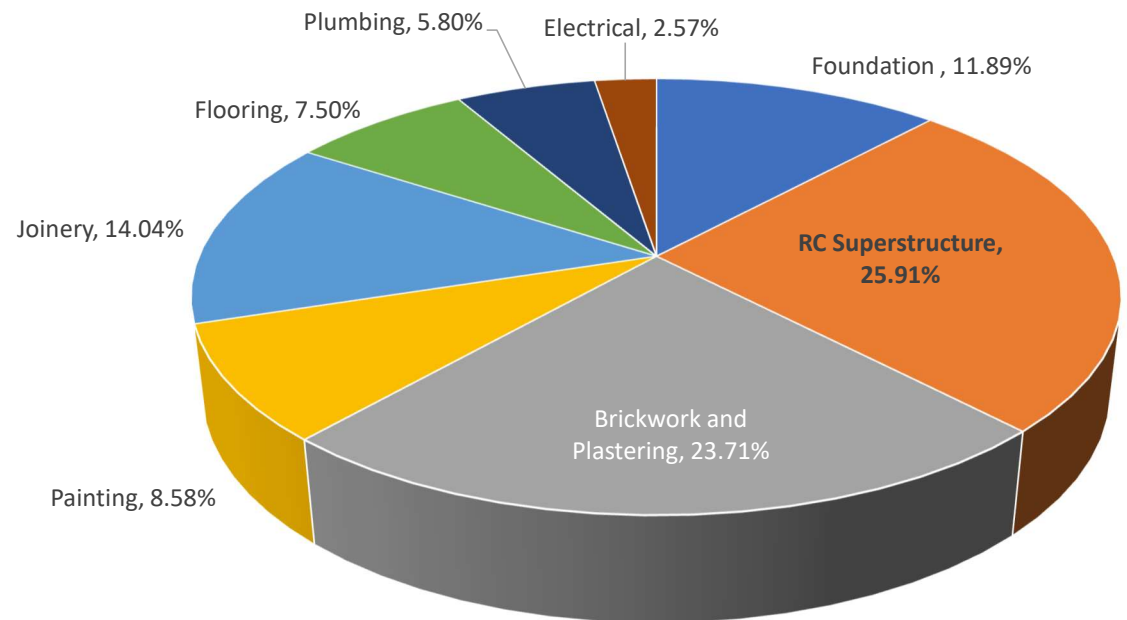
Sl No.	Description of Items	Unit	Quantity	Rate (Rs)	Amount (Rs)
6.06	Fabrication, supply and installation of following size of ladder type GI cable tray including horizontal and vertical reducers, tees, cross members and other accessories as required and duly suspended from the ceiling with MS suspenders and painting etc as required				
6.0601	150 mm width X 75 mm depth X 2 mm thickness	m	170		
6.0602	300mm width X 75 mm depth X 2 mm thickness	m	177		
6.0603	600 mm width X 75 mm depth X 2 mm thickness	m	60		
6.07	Supply, fabricating and installing MS items such as Tees/ angles/ channels etc. on floor/ ceiling/ wall including necessary civil work such as grouting, finishing etc. and painting with two coats of zinc chromate primer and two coats of enamel paint of approved make.	kg	130		
6.08	Supply and fixing of heavy duty in-screed floor box with all necessary accessories as required complete.	no	33		
6.09	Supply & fixing of 300 x 38 x 1.6 mm 3 compartment GI under floor trunking made out of 1.6mm pre-galvanised sheet metal with zinc coated steel sheet double folded and arc welded including all accessoires like jointing sleeve, vertical and horizontal bends, end cover etc required for the complete installation of the trunking system including cutting the floor if required and making good the same as required.				
6.0901	300x38X1.6 mm 3 compartment GI under floor trunking	m	151		
6.0902	Jointing sleeve suitable for 300x38x1.6 mm 3 compartment GI underfloor trunking	no	25		
6.0903	Junction box of size 300x300X65 mm	no	49		
6.10	Supply & fixing of 225x 38 x 1.6 mm 3 compartment GI under floor trunking made out of 1.6mm pre-galvanised sheet metal with zinc coated steel sheet double folded and arc welded including all accessoires like jointing sleeve, vertical and horizontal bends, end cover etc required for the complete installation of the trunking system including cutting the floor if required and making good the same as required.				
6.1001	225x38X1.6 mm 3 compartment GI under floor trunking	m	15		
6.1002	Jointing sleeve suitable for 225x38x1.6 mm 3 compartment GI underfloor trunking	no	3		
6.1003	Junction box of size 225x225X65 mm	no	3		
6.11	Supply & fixing of 100 x 38 x 1.6 mm 3 compartment GI under floor trunking made out of 1.6mm pre-galvanised sheet metal with zinc coated steel sheet double folded and arc welded including all accessoires like jointing sleeve, vertical and horizontal bends, end cover etc required for the complete installation of the trunking system including cutting the floor if required and making good the same as required.				

## COST ESTIMATION

Cost of shuttering: Cost of  
concrete  
34.8%



### Cost Breakup on WBS



## BILL OF MATERIALS

MAKE THUMB-RULES FOR SIMILAR TYPE  
OF PROJECTS IN TERMS OF AREA AND  
PERIMETER E.G.

Cement:  
0.43  
bags/sft

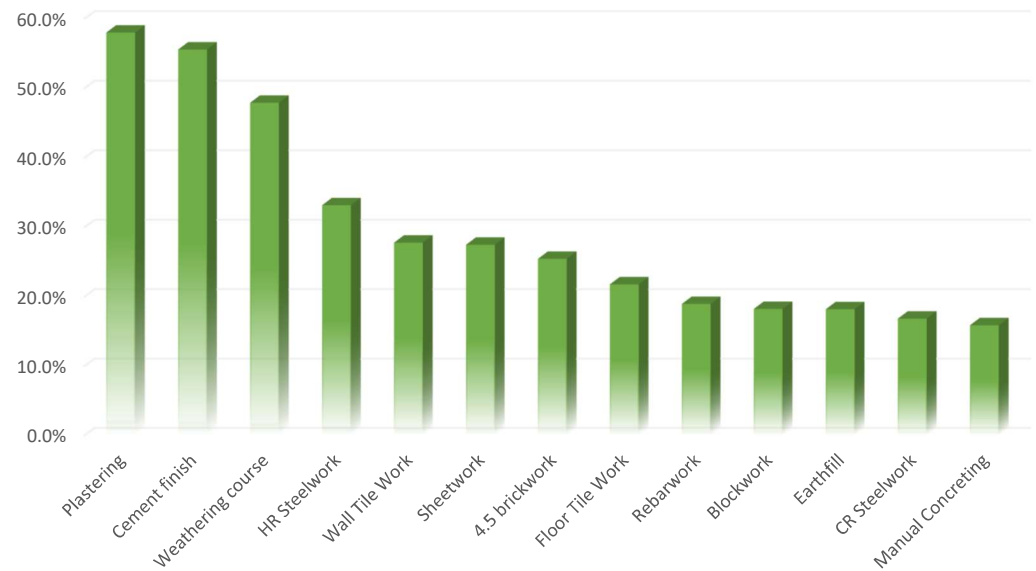
RMC:  
0.75  
cft/sft

Rebar:  
3.8  
kg/sft

Bricks:  
11.6  
nos./sft

PROJECT NAME		R519.2.1.0: MATERIAL INTENTS			
No.	Item	Quantity	Unit	Quantity	Unit
	SUMP & RAFT-MAT: [REQD. BY] 23 JAN 2019				
1	Ordinary Portland Cement	500.00	Bags	25.00	MT
2	CTD Steel Bar (Fe 500) - 08mm TMT	2000.00	Kg	428.00	x12m
3	CTD Steel Bar (Fe 500) - 10mm TMT	600.00	Kg	81.00	x12m
4	CTD Steel Bar (Fe 500) - 12mm TMT	2000.00	Kg	188.00	x12m
5	CTD Steel Bar (Fe 500) - 16mm TMT	3000.00	Kg	159.00	x12m
6	CTD Steel Bar (Fe 500) - 20mm TMT	700.00	Kg	24.00	x12m
7	Ordinary River Sand	42.00	m <sup>3</sup>	1500.00	cft
8	20mm Nominal Broken Stone	42.00	m <sup>3</sup>	1500.00	cft
9	40mm Nominal Broken Stone	12.00	m <sup>3</sup>	500.00	cft

## LABOUR COMPONENT ON VARIOUS WORKS



TOTAL COST ELEMENTS  
ESTIMATION

Item No.	Description	Material (INR)	Labour (INR)	Equipment (INR)	Total Direct (INR)	Contingency (%)	Preliminaries (%)	Overheads (%)	Profit (%)	Adjustments (%)	Inflations (%)	Total (INR)
1	Asset/Element 1											
1.1	WBS Description											
1.2	WBS Description											
1.3	WBS Description											
1.4	WBS Description											
2	Asset/Element 2											
2.1	WBS Description											
2.2	WBS Description											
2.3	WBS Description											
2.4	WBS Description											

SPLIT-UP OF MATERIAL, LABOUR, EQUIPMENT,  
OVERHEAD, PRELIMINARIES AND CONTINGENCIES  
FOR EACH ITEM ON WBS

# PROJECT COST SUMMARY

Control account number	Description	Recorded costs		Open commitments	Cumulative total recorded & committed	Estimated Cost			Under or over budget
		Current period	Cumulative to date			To complete	At completion Budget		
	<b>Direct Cost</b>								
1000.0000	Site development and improvements	64,430	25,58,396	2,64,332	28,22,728	2,02,994	\$ 3,025,722	30,75,600	(49,878)
2000.0000	Buildings and structures	12,04,598	1,25,51,752	4,95,366	1,30,47,118	12,54,954	1,43,02,072	1,44,70,000	(1,67,928)
3000.0000	Process equipment and systems	4,57,672	34,62,266	3,401,4.58	68,63,724	16,76,758	85,40,482	87,20,000	(1,79,518)
4000.0000	Utilities distribution	2,21,120	36,50,100	25,05,204	61,55,304	15,06,696	76,62,000	76,31,800	30,200
6000.0000	Distributable directs	82,456	6,13,378	5,92,768	12,06,146	6,90,244	18,96,390	20,00,600	(1,04,210)
	Total direct cost	20,30,276	2,28,35,892	72,59,128	3,00,95,020	53,31,646	3,54,26,666	3,58,98,000	4,71,334
	<b>Indirect Cost</b>								
7100.0000	Contractors field services	51,578	6,77,790	21,000	6,98,790	7,01,210	14,00,000	14,46,000	46,000
7200.0000	Construction plant	22,914	1,28,546	6,334	1,34,880	21,120	1,56,000	1,56,000	0
7300.0000	Construction equipment	19,228	95,498	2,502	98,000	0	98,000	1,00,000	(2,000)
	Total indirect cost	93,720	902	29,836	9,31,670	7,22,330	16,54,000	17,02,000	(48,000)
	Total construction cost	21,23,996	2,37,37,726	72,88,964	3,10,26,690	60,53,976	3,70,80,666	3,76,00,000	(5,19,334)
8100.0000	Engineenng, supervision and procurement	34,674	18,98,790	0	18,98,790	2,01,210	21,00,000	22,00,000	(1,00,000)
8900.0000	Contingency	0	0	0	0	15,64,000	15,64,000	36,00,000	0
9000.0000	Clearings	(2,608)	7,142	4,060	3,11,202	(11,202)	0	0	(20,36,000)
	Total project	21,56,062	2,56,43,658	72,93,024	3,29,36,682	78,07,984	4,07,44,666	4,34,00,000	(26,55,334)

This report is a monthly summary (highest level) of cost estimates, and comparisons to budget prepared for distribution