

	Type of member	No.of Member	B flange (mm)	T flange(mm)	h web(mm)	T web(mm)	Area (mm^2)	Length(m)	Volume (m^3)	Weight (ton)
Deck Part	Cross girder of deck part	14	200	30	1000	20	32000	6	2.688	21.1008
	Main girder of deck part b4 Car	4	500	30	2500	30	105000	15.2	6.384	50.1144
	Main girder of deck part car part	4	500	25	2500	25	87500	14.8	5.18	40.663
	Main girder after depth decrease	4	500	25	1200	25	55000	3.46	0.7612	5.97542
	Main girder Inclined Part	4					71250	3	0.855	6.71175
	Rafter of frame of deck part	2	400	30	1800	28	74400	14	2.0832	16.35312
	Column Straight part	4	500	30	1500	28	72000	3.28	0.94464	7.415424
	Column cart part (deck part)	4					63600	5.3	1.34832	10.584312
Inclined part	Hunch	2	400	30	1800	28	74400	2	0.2976	2.33616
	(Rafter) frame of Inclined Part	24	380	18	1500	15	36180	14.5	12.59064	98.836524
	(column) frame of Inclined Part	4	400	24	1500	22	52200	10	2.088	16.3908
	(column) frame of Inclined Part	4	400	24	1500	22	52200	9.4	1.96272	15.407352
	(column) frame of Inclined Part	4	400	24	1500	22	52200	8.8	1.83744	14.423904
	(column) frame of Inclined Part	4	400	24	1500	22	52200	8.2	1.71216	13.440456
	(column) frame of Inclined Part	4	400	24	1500	22	52200	7.6	1.58688	12.457008
	(column) frame of Inclined Part	4	400	24	1500	22	52200	7	1.4616	11.47356
	(column) frame of Inclined Part	4	400	24	1500	22	52200	6.4	1.33632	10.490112
	(column) frame of Inclined Part	4	400	24	1500	22	52200	5.8	1.21104	9.506664
	(column) frame of Inclined Part	4	400	24	1500	22	52200	5.2	1.08576	8.523216
	(column) frame of Inclined Part	4	400	24	1500	22	52200	4.6	0.96048	7.539768
	(column) frame of Inclined Part	4	400	24	1500	22	52200	4	0.8352	6.55632
	(column) frame of Inclined Part	4	400	24	1500	22	52200	3.4	0.70992	5.572872
	Hunch	24	380	18	1500	15	36180	2	1.73664	13.632624
	Total weight									391.872942

Quantity of stringer					
Type of member	Type Section	No.of Member	Weight (kg/m)	Length (m)	total weight (ton)
Stringer of inclined part	IPE600	198	122	6	144.936
Stringer of deck part	HEA550	24	168	6	24.192
				Total weight	169.128

Mezzanine Floor					
Type of member	Type Section	No.of Members	weight (kg/m)	Length (m)	total weight (ton)
Column first floor	IPE600	9	122	2	2.196
Column second floor	IPE500	9	90.7	4	3.2652
Main Beam First floor	IPE500	6	90.7	9	4.8978
Main Beam Second floor	IPE450	6	77.6	9	4.1904
Secondary beam First floor	IPE360	14	57.1	6.2	4.95628
Secondary beam second floor	IPE300	14	42.2	6.2	3.66296
				Total weight	23.16864

Upper Bracing System	2L 100*100*10	24	30.2	6.32	4.580736
Side gerts	IPE600	20	122	6	14.64
				Total weight	19.220736

Type of plate	No.of plate	T (mm)	B (mm)	Area(mm^2)	H (m)	Volume (m^3)	Weight (ton)
Fixed base of Inclined Part	48	50	930	46500	2.35	5.2452	41.17482
corner plate inclined part	48	24	400	9600	3.1	1.42848	11.213568
Fixed base of deck Part	4	30	900	27000	1.8	0.1944	1.52604
corner plate deck part	4	30	500	15000	3.37	0.2022	1.58727
Splice plate	16	20	860	17200	2.38	0.654976	5.1415616
						Total weight	55.501698

Total weight of project 658.89202