

MUMBAI SKY BUS METRO						B. Rajaram M.Tech., FIE., FNAE				
with capacity of passxkm		150		million /day Maximum						
Peak north south capacity		144000		per hour per direction						
S.NO	ALIGNMENT		BRIEF	ROUTE	NO. OF	APPROXIMATE	Estimates			
	FROM	TO	DESCRIPTION OF ALIGNMENT	LENGTH (KM)	SKY STATIONS	COSTRs CRORES)	Peak capaci pphpd	Profit after depreciation before tax(Cr)	Return on capital	At 50% capacity passengerxkm in mn per day
1	ANDHERI	NARIMAN POINT	ALONG SV ROAD, VEER SAVARKAR ROAD, ANNE BEASANT ROAD AND MARINE DRIVE at Rs 60 cr/km	24	25	1440.0	50000	288	20%	26.4
2	ANDHERI	GHATKOPAR	ALONG MATHURDAS VASANJI ROAD AND HIRACHAND DESAI ROAD	8.3	10	361.9	30000	43.428	12%	5.478
3	ANDHERI	CHARKOP	ALONG JP ROAD AND LINK ROAD	9.8	11	416.5	30000	49.98	12%	6.468
4	BANDRA TERMINUS	KURLA	VIA BANDRA-KURLA COMPLEX	7.3	9	320.5	30000	38.46	12%	4.818
5	FORT	COLABA	ALONG SHAHID BHAGAT SINGH ROAD	4	5	228.8	30000	27.456	12%	2.64
6	CSTM	NARIMAN POINT	CLOSED CIRCUIT ALIGNMENT VIA HUTATMA CHOWK, CHURCH GATE, NARIMAN POINT AND MANTRALAYA	5.5	7	314.6	30000	37.752	12%	3.63
7	PRABHA DEVI	SEWERI	ALONG ACHARYA DONDE MARG	3.5	4	200.2	30000	24.024	12%	2.31
8	GHATKOPAR	FORT	ALONG LBS ROAD, EASTERN EXPRESS HIGHWAY, TANTYA TOPE ROAD, VALLABDAS ROAD, RAFI AHMED KIDWAI ROAD AND P.D'MELLO ROAD,	20	21	1200.0	50000	240	20%	22
9	INTERNATIONAL AIR PORT	MATHURDAS VASANJI ROAD	ALONG AIR PORT ROAD	1.8	2	104.4	30000	12.528	12%	1.188
				84.2	94	4586.9		761.6	17%	74.932
For 85 km route network in Mumbai the total cost is Rs 4587 cr.										
Annual cash-flow surplus as % of capital at charge				21%		ONLY Fare Box Collections considered <i>neglecting other</i>				
Depreciation deduct				5%		<i>income from cargo, real estate</i>				
Net before tax				16%		sources.				
Funding, charges for travel and earnings per share:						Alternate method of estimate: Rs crores				
Assumptions:						At 50 ps per km for 70% of commuters (local)				944
1. A day of 22 hours working						At Rs1.5 per km 30% of commuters: floating population				1214
Peak full capacity used 6 hrs						Gross Rs cr				2158
Used at 30% capacity 16 hrs						O&M expenses at Rs 5 cr/km				425
Weighted average use of capacity 49.09%						Depreciation at 5% of capital				229
						Sub total				654
						Net earnings				1504
2. Basic charge fixed at 50 ps per km for non-peak period travel and during peak Re 1 per km is charged. Also case of peak time charge being kept at 50 ps per km is analysed..						Assuming uni-directional flow for 30% of time , reduce the net by 30%				1053
3. Minimum charge fixed to recover to pay :										
1. 10% interest on debt										
2. O & M										
3 Depreciation at 5%										