

SUMMARIZED ESTIMATE – SCENARIO B

Regarding the expenses required for the achievement of the investment objective:

PRE-FEASIBILITY STUDY (PFS) AND FEASIBILITY STUDY (FS) FOR CONSTRUCTION OF SUBWAY LINE 4: LAC STRĂULEȘTI - GARA PROGRESUL, GARA DE NORD - GARA PROGRESUL SECTION.
PHASE: Feasibility Study (F.S.)

in lei/euro at the infoeuro exchange rate of July 2019

1euro=

4,7326 lei

No.	Name of chapters and sub-chapters of expenses	Valoare (fara TVA)		TVA	Valoare (inclusiv TVA)	
		lei	euro	lei	lei	euro
1	2	3	4	5	6	7
CHAPTER 1						
Expenses on acquiring and designing the land						
1.1.	Acquiring the land	96.718.574,00	20.436.667,79	18.376.529,06	115.095.103,06	24.319.634,67
1.2.	Designing the land	359.677.022,26	75.999.877,92	68.338.634,23	428.015.656,49	90.439.854,73
1.2.1.	Demolition	5.408.077,50	1.142.728,63	1.027.534,73	6.435.612,23	1.359.847,07
1.2.2.	Disassembly	0,00	0,00	0,00	0,00	0,00
1.2.3.	De-allocation – restoration of surfaces: roads, sidewalks, green areas	193.907.886,68	40.972.802,83	36.842.498,47	230.750.385,14	48.757.635,37
1.2.4.	Public lighting	0,00	0,00	0,00	0,00	0,00
1.2.5.	De-allocation – deviation – restoration of over ground urban transport	62.834.615,01	13.276.975,66	11.938.576,85	74.773.191,86	15.799.601,04
1.2.6.	De-allocation – restoration of railway transport	11.654.845,00	2.462.672,74	2.214.420,55	13.869.265,55	2.930.580,56
1.2.7.	Deforestation	559.624,14	118.248,77	106.328,59	665.952,72	140.716,04
1.2.8.	Collection, sorting and transportation of generated waste to licensed deposits	0,00	0,00	0,00	0,00	0,00
1.2.9.	Rehabilitation of buildings in the impact area	75.409.269,00	15.934.004,35	14.327.761,11	89.737.030,11	18.961.465,18
1.2.10.	Gravitational drain	0,00	0,00	0,00	0,00	0,00
1.2.11.	Dewatering systems (excluding the ones related to the execution of works for investment)	0,00	0,00	0,00	0,00	0,00
1.2.12.	Relocation of historical monuments	709.890,00	150.000,00	134.879,10	844.769,10	178.500,00
1.2.13.	Discharges of archeological responsibility or, if applicable, protection during the execution of the investment objective (in case of execution of some works on sites that are on the List of historical monuments or in the National Archeological Directory)	0,00	0,00	0,00	0,00	0,00
1.2.14.	Traffic deviation and delimitation of site management	9.192.814,93	1.942.444,94	1.746.634,84	10.939.449,77	2.311.509,48
1.3.	Designs for environmental protection and restoring the land to its original condition	2.101.129,52	443.969,39	399.214,61	2.500.344,13	528.323,57
1.3.1.	Planting trees	990.643,94	209.323,40	188.222,35	1.178.866,29	249.094,85
1.3.2.	Re-designing green areas	1.110.485,58	234.645,98	210.992,26	1.321.477,84	279.228,72
1.3.3.	Environmental protection works/ actions	0,00	0,00	0,00	0,00	0,00
1.3.4.	Separate sewerage system	0,00	0,00	0,00	0,00	0,00
1.4.	Expenses on relocation/protection of utilities	301.441.266,25	63.694.642,74	57.273.840,59	358.715.106,84	75.796.624,87
1.4.1.	Deviation of water networks	23.394.404,40	4.943.245,66	4.444.936,84	27.839.341,23	5.882.462,33
1.4.2.	Deviation of sewerage networks	70.449.080,20	14.885.914,76	13.385.325,24	83.834.405,44	17.714.238,57

1.4.3.	Deviation of gas networks	19.567.225,00	4.134.561,34	3.717.772,75	23.284.997,75	4.920.128,00
1.4.4.	Deviation of electric networks	31.754.865,00	6.709.813,84	6.033.424,35	37.788.289,35	7.984.678,47
1.4.5.	Deviation of heating networks	25.484.649,36	5.384.915,13	4.842.083,38	30.326.732,74	6.408.049,01
1.4.6.	Deviation of telecommunication networks	104.921.602,79	22.169.970,58	19.935.104,53	124.856.707,31	26.382.264,99
1.4.7.	Deviation of public lighting	3.802.338,00	803.435,32	722.444,22	4.524.782,22	956.088,03
1.4.8.	Deviation – restoration of over ground urban transport networks	22.067.101,50	4.662.786,10	4.192.749,29	26.259.850,79	5.548.715,46
TOTAL CHAPTER 1		759.937.992,03	160.575.157,85	144.388.218,49	904.326.210,51	191.084.437,84
CHAPTER 2						
Expenses for providing utilities required for the objective						
2.1.	Electricity supply	278.750.140,00	58.900.000,00	52.962.526,60	331.712.666,60	70.091.000,00
2.2.	Water supply from the city utility network	699.503,41	147.805,31	132.905,65	832.409,06	175.888,32
2.3.	Connection to sewerage	2.608.278,40	551.130,12	495.572,90	3.103.851,30	655.844,84
2.4.	Connection to the telephony, internet and television networks	699.503,41	147.805,31	132.905,65	832.409,06	175.888,32
TOTAL CHAPTER 2		282.757.425,22	59.746.740,74	53.723.910,79	336.481.336,02	71.098.621,48
CHAPTER 3						
Expenses on design and technical assistance						
3.1	Studies	3.928.548,89	830.103,72	746.424,29	4.674.973,18	987.823,43
3.1.1	On site studies	1.964.274,44	415.051,86	373.212,14	2.337.486,59	493.911,72
3.1.2	Report on the impact on the environment	491.068,61	103.762,97	93.303,04	584.371,65	123.477,93
3.1.3	Other specific studies	1.473.205,83	311.288,90	279.909,11	1.753.114,94	370.433,79
3.2	Support documentations and expenses on obtaining consents, agreements and permits	824.995,27	174.321,78	156.749,10	981.744,37	207.442,92
3.3	Technical survey of existing constructions	1.559.226,00	329.464,99	296.252,94	1.855.478,94	392.063,34
3.4	Certification of energy performance and energy audits of buildings	103.948,00	21.964,25	19.750,12	123.698,12	26.137,46
3.5	Design	117.856.466,66	24.903.111,75	22.392.728,66	140.249.195,32	29.634.702,98
3.5.1	Design theme	0,00	0,00	0,00	0,00	0,00
3.5.2	Pre-feasibility study	2.956.502,49	624.709,99	561.735,47	3.518.237,97	743.404,89
3.5.3	Feasibility study and summarized estimate	16.753.514,12	3.540.023,27	3.183.167,68	19.936.681,80	4.212.627,69
3.5.4	Technical documentations required for obtaining consents/ agreements/ permits	2.357.129,33	498.062,23	447.854,57	2.804.983,91	592.694,06
3.5.5	Quality technical control of the technical project and of execution details	5.892.823,33	1.245.155,59	1.119.636,43	7.012.459,77	1.481.735,15
3.5.6	Technical project and execution details	89.896.497,38	18.995.160,67	17.080.334,50	106.976.831,88	22.604.241,20
3.6	Organization of procurement procedures	235.712,93	49.806,22	44.785,46	280.498,39	59.269,41
3.7	Consulting	49.395.685,10	10.437.325,17	9.385.180,17	58.780.865,27	12.420.416,95
3.7.1.	Project management for the investment objective	49.106.861,11	10.376.296,56	9.330.303,61	58.437.164,72	12.347.792,91
3.7.2.	Financial audit	288.823,99	61.028,61	54.876,56	343.700,55	72.624,04
3.8	Technical assistance	73.660.291,66	15.564.444,84	13.995.455,42	87.655.747,08	18.521.689,36
3.8.1.	Technical assistance on the designer's part	15.910.623,00	3.361.920,09	3.023.018,37	18.933.641,37	4.000.684,90
3.8.1.1	During the period of execution of works	14.142.776,00	2.988.373,41	2.687.127,44	16.829.903,44	3.556.164,36
3.8.1.2	For the designer's participation in the phases included in the program of control of construction works, approved by the State Inspectorate for Constructions	1.767.847,00	373.546,68	335.890,93	2.103.737,93	444.520,54
3.8.2.	Site supervision	57.749.668,66	12.202.524,76	10.972.437,05	68.722.105,71	14.521.004,46

3.9.	Technological monitoring	3.535.694,00	747.093,35	671.781,86	4.207.475,86	889.041,09
TOTAL CHAPTER 3		251.100.568,50	53.057.636,08	47.709.108,02	298.809.676,52	63.138.586,93
CHAPTER 4						
Expenses on basic investment						
4.1.	Constructions and installations	3.695.255.057,48	780.808.658,56	702.098.460,92	4.397.353.518,40	929.162.303,68
4.1.1.	Embankments, vertical systematization and outdoor improvements	0,00	0,00	0,00	0,00	0,00
4.1.2.	Structure	2.532.113.680,96	535.036.487,55	481.101.599,38	3.013.215.280,35	636.693.420,18
4.1.3.	Architecture	520.694.615,32	110.022.950,45	98.931.976,91	619.626.592,23	130.927.311,04
4.1.4.	Installations related to constructions	460.642.698,91	97.333.959,96	87.522.112,79	548.164.811,70	115.827.412,35
4.1.4.1	Electric energy installations	308.070.500,00	65.095.402,10	58.533.395,00	366.603.895,00	77.463.528,50
4.1.4.2	Local passenger transport installations	6.830.550,00	1.443.297,55	1.297.804,50	8.128.354,50	1.717.524,09
4.1.4.3	Electromechanical installations	67.117.999,76	14.182.056,32	12.752.419,95	79.870.419,71	16.876.647,03
4.1.4.4	Low current installations	38.449.188,08	8.124.326,60	7.305.345,74	45.754.533,82	9.667.948,66
4.1.4.5	Traffic automation	40.174.461,07	8.488.877,38	7.633.147,60	47.807.608,67	10.101.764,08
4.1.5.	Rolling track	121.598.244,83	25.693.750,76	23.103.666,52	144.701.911,34	30.575.563,40
4.1.6.	Traffic automation and safety installations, inclusively ATC boarded on train	30.287.969,46	6.399.858,31	5.754.714,20	36.042.683,66	7.615.831,39
4.1.7.	Line bar	19.514.258,00	4.123.369,40	3.707.709,02	23.221.967,02	4.906.809,58
4.1.8.	Overhead contact wire	10.403.590,00	2.198.282,13	1.976.682,10	12.380.272,10	2.615.955,73
4.2.	Assembly of machinery, technological and functional equipment	173.166.246,98	36.590.087,26	32.901.586,93	206.067.833,90	43.542.203,84
4.2.1.	Installations related to constructions	124.293.672,98	26.263.295,65	23.615.797,87	147.909.470,84	31.253.321,82
4.2.1.1	Electric energy installations	4.817.200,00	1.017.876,01	915.268,00	5.732.468,00	1.211.272,45
4.2.1.2	Local passenger transport installations	14.279.810,00	3.017.328,74	2.713.163,90	16.992.973,90	3.590.621,20
4.2.1.3	Electromechanical installations	15.061.606,77	3.182.522,67	2.861.705,29	17.923.312,06	3.787.201,97
4.2.1.4	Low current installations	24.085.200,42	5.089.211,09	4.576.188,08	28.661.388,50	6.056.161,20
4.2.1.5	Traffic automation	66.049.855,78	13.956.357,14	12.549.472,60	78.599.328,38	16.608.064,99
4.2.2.	Traffic automation and safety installations, inclusively ATC boarded on train	48.504.574,00	10.249.033,09	9.215.869,06	57.720.443,06	12.196.349,38
4.2.3.	Depot technological installations	368.000,00	77.758,53	69.920,00	437.920,00	92.532,65
4.3.	Machinery, technological and functional equipment including assembly	752.092.309,60	158.917.362,46	142.897.538,82	894.989.848,42	189.111.661,33
4.3.1.	Installations related to constructions	614.146.297,60	129.769.322,91	116.687.796,54	730.834.094,14	154.425.494,26
4.3.1.1	Electric energy installations	87.408.500,00	18.469.445,97	16.607.615,00	104.016.115,00	21.978.640,70
4.3.1.2	Local passenger transport installations	108.098.000,00	22.841.144,40	20.538.620,00	128.636.620,00	27.180.961,84
4.3.1.3	Electromechanical installations	67.132.732,35	14.185.169,32	12.755.219,15	79.887.951,49	16.880.351,50
4.3.1.4	Low current installations	113.585.177,25	24.000.586,83	21.581.183,68	135.166.360,93	28.560.698,33
4.3.1.5	Traffic automation	237.921.888,00	50.272.976,38	45.205.158,72	283.127.046,72	59.824.841,89
4.3.2.	Traffic automation and safety installations, inclusively ATC boarded on train	134.766.012,00	28.476.104,47	25.605.542,28	160.371.554,28	33.886.564,32
4.3.3.	Depot technological installations	3.180.000,00	671.935,09	604.200,00	3.784.200,00	799.602,76
4.4.	Machinery, technological and functional equipment not requiring assembly and transport equipment	529.742.177,66	111.934.703,47	100.651.013,76	630.393.191,42	133.202.297,13

4.4.1.	Rolling stock	521.577.996,33	110.209.609,16	99.099.819,30	620.677.815,63	131.149.434,91
4.4.2.	Rolling track machinery	6.948.406,00	1.468.200,57	1.320.197,14	8.268.603,14	1.747.158,67
4.4.3.	Low current installations	1.132.285,33	239.252,28	215.134,21	1.347.419,54	284.710,21
4.4.4.	Traffic automation	83.490,00	17.641,47	15.863,10	99.353,10	20.993,34
4.4.	Facilities	8.044.553,77	1.699.816,96	1.528.465,22	9.573.018,98	2.022.782,19
4.5.1.	Architecture	5.800.372,58	1.225.620,71	1.102.070,79	6.902.443,37	1.458.488,65
4.5.2.	Installations related to constructions	1.593.106,19	336.623,88	302.690,18	1.895.796,37	400.582,42
4.5.2.1	Electric energy installations	660.000,00	139.458,23	125.400,00	785.400,00	165.955,29
4.5.2.2	Local passenger transport installations	74.000,00	15.636,23	14.060,00	88.060,00	18.607,11
4.5.2.3	Electromechanical installations	297.183,25	62.794,92	56.464,82	353.648,07	74.725,96
4.5.2.4	Low current installations	344.009,80	72.689,39	65.361,86	409.371,66	86.500,37
4.5.2.5	Traffic automation	217.913,14	46.045,12	41.403,50	259.316,64	54.793,69
4.5.3.	Traffic automation and safety installations, inclusively ATC boarded on train	591.875,00	125.063,39	112.456,25	704.331,25	148.825,43
4.5.4.	Rolling track	0,00	0,00	0,00	0,00	0,00
4.5.5.	Rolling stock	0,00	0,00	0,00	0,00	0,00
4.5.6.	Depot technological installations	59.200,00	12.508,98	11.248,00	70.448,00	14.885,69
4.6.	Intangible assets	35.356,94	7.470,93	6.717,82	42.074,76	8.890,41
TOTAL CHAPTER 4		5.158.335.702,42	1.089.958.099,65	980.083.783,46	6.138.419.485,88	1.297.050.138,59
CHAPTER 5						
Other expenses						
5.1	Site management	140.484.137,95	29.684.346,44	26.691.986,21	167.176.124,16	35.324.372,26
5.1.1	Construction works and installations related to site management	96.287.962,95	20.345.679,53	18.294.712,96	114.582.675,92	24.211.358,64
5.1.2	Expenses related to site management	44.196.175,00	9.338.666,91	8.397.273,25	52.593.448,25	11.113.013,62
5.2	Commissions, shares, fees, credit cost	67.877.437,51	14.342.525,78	12.896.713,13	80.774.150,64	17.067.605,68
5.2.1	Commissions and interest related to credit from the financing bank	13.270.607,96	2.804.084,00	2.521.415,51	15.792.023,47	3.336.859,97
5.2.2	ISC related share for quality control of construction works (0.5% of C+M)	24.553.430,55	5.188.148,28	0,00	24.553.430,55	5.188.148,28
5.2.3	ISC related share for state control of land design, planning and for permitting construction works (0.1% of C+M)	4.910.686,11	1.037.629,66	0,00	4.910.686,11	1.037.629,66
5.2.4	Share of the Social Office of Builders - CSC (0.5% of the total works of C+M)	24.553.430,55	5.188.148,28	0,00	24.553.430,55	5.188.148,28
5.2.5	Fees for agreements, approval notices and building/demolition permit	589.282,33	124.515,56	111.963,64	701.245,98	148.173,51
5.3	Sundry contingent expenses	513.110.088,28	108.420.337,29	97.490.916,77	610.601.005,05	129.020.201,38
5.4	Information and publicity expenses	1.118.739,31	236.390,00	212.560,47	1.331.299,78	281.304,10
TOTAL CHAPTER 5		722.590.403,05	152.683.599,51	127.028.842,61	849.619.245,66	179.524.837,44
CHAPTER 6						
Expenses on technological trials and tests						
6.1.	Training the operating personnel	5.788.380,93	1.223.086,87	1.099.792,38	6.888.173,31	1.455.473,38
6.2.	Technological trials and tests	12.503.957,94	2.642.090,59	2.375.752,01	14.879.709,95	3.144.087,80
TOTAL CHAPTER 6		18.292.338,87	3.865.177,46	3.475.544,38	21.767.883,25	4.599.561,18
TOTAL GENERAL		7.193.014.430,09	1.519.886.411,29	1.356.409.407,75	8.549.423.837,84	1.806.496.183,46
Of which C+M		4.910.686.110,66	1.037.629.656,14	933.030.361,03	5.843.716.471,69	1.234.779.290,81