

GOVERNORATE OF BASRAH

Scenario 3

Decentralized scheme

Per-capita water provision: District center = 360 lpcd R = 250 lpcd Capital towns = 450 lpcd Treated water salinity: 800 mg/l

Existing WTP ID	Water treatment plant type	Raw water salinity (g/l)	Treated water salinity (g/l)	Total Population served by WTP	Design capacity new plant (m ³ /h)	Design capacity existing plant (m ³ /h)	Current status existing plant	Operational performance existing plant	Assessment existing plant	Available capacity (%)	Current capacity of existing WTP (m ³ /h)	Current capacity of existing WTP (l/s)	Total cost for complete new WTP	Cost evaluation of existing WTP	Cost evaluation of existing WTP	Residual investment cost for new WTP	Management cost for water treatment plant	Raw water intake investment cost	Diameter of new water pipe	Length of new water pipe	Investment cost of new water pipe	Investment cost for storage tank	Power for electrical generator	Cost of electrical generator	Total investment costs	Total management costs
Basrah WTP	11	2	10	20000	1000	1000	2	1	1	100	1000	360	11000000	11000000	0	10000000	10000000	0	1000	1000	1000000	1000000	1000000	1000000	1000000	1000000
Basrah WTP	12	2.5	10	144000	20000	20000	2	1	1	100	20000	7200	110000000	110000000	0	110000000	110000000	0	1000	1000	10000000	10000000	10000000	10000000	10000000	10000000
Basrah WTP	13	2.5	10	180000	25000	25000	2	1	1	100	25000	9000	110000000	110000000	0	110000000	110000000	0	1000	1000	10000000	10000000	10000000	10000000	10000000	10000000
Basrah WTP	14	2.5	10	220000	30000	30000	2	1	1	100	30000	10800	110000000	110000000	0	110000000	110000000	0	1000	1000	10000000	10000000	10000000	10000000	10000000	10000000
Basrah WTP	15	2.5	10	260000	35000	35000	2	1	1	100	35000	12600	110000000	110000000	0	110000000	110000000	0	1000	1000	10000000	10000000	10000000	10000000	10000000	10000000
Basrah WTP	16	2.5	10	300000	40000	40000	2	1	1	100	40000	14400	110000000	110000000	0	110000000	110000000	0	1000	1000	10000000	10000000	10000000	10000000	10000000	10000000
Basrah WTP	17	3	10	340000	45000	45000	2	1	1	100	45000	16200	110000000	110000000	0	110000000	110000000	0	1000	1000	10000000	10000000	10000000	10000000	10000000	10000000
Basrah WTP	18	3	10	380000	50000	50000	2	1	1	100	50000	18000	110000000	110000000	0	110000000	110000000	0	1000	1000	10000000	10000000	10000000	10000000	10000000	10000000
Basrah WTP	19	3	10	420000	55000	55000	2	1	1	100	55000	19800	110000000	110000000	0	110000000	110000000	0	1000	1000	10000000	10000000	10000000	10000000	10000000	10000000
Basrah WTP	20	3	10	460000	60000	60000	2	1	1	100	60000	21600	110000000	110000000	0	110000000	110000000	0	1000	1000	10000000	10000000	10000000	10000000	10000000	10000000
Basrah WTP	21	3	10	500000	65000	65000	2	1	1	100	65000	23400	110000000	110000000	0	110000000	110000000	0	1000	1000	10000000	10000000	10000000	10000000	10000000	10000000
Basrah WTP	22	3	10	540000	70000	70000	2	1	1	100	70000	25200	110000000	110000000	0	110000000	110000000	0	1000	1000	10000000	10000000	10000000	10000000	10000000	10000000
Basrah WTP	23	3	10	580000	75000	75000	2	1	1	100	75000	27000	110000000	110000000	0	110000000	110000000	0	1000	1000	10000000	10000000	10000000	10000000	10000000	10000000
Basrah WTP	24	3	10	620000	80000	80000	2	1	1	100	80000	28800	110000000	110000000	0	110000000	110000000	0	1000	1000	10000000	10000000	10000000	10000000	10000000	10000000
Basrah WTP	25	3	10	660000	85000	85000	2	1	1	100	85000	30600	110000000	110000000	0	110000000	110000000	0	1000	1000	10000000	10000000	10000000	10000000	10000000	10000000
Basrah WTP	26	3	10	700000	90000	90000	2	1	1	100	90000	32400	110000000	110000000	0	110000000	110000000	0	1000	1000	10000000	10000000	10000000	10000000	10000000	10000000
Basrah WTP	27	3	10	740000	95000	95000	2	1	1	100	95000	34200	110000000	110000000	0	110000000	110000000	0	1000	1000	10000000	10000000	10000000	10000000	10000000	10000000
Basrah WTP	28	3	10	780000	100000	100000	2	1	1	100	100000	36000	110000000	110000000	0	110000000	110000000	0	1000	1000	10000000	10000000	10000000	10000000	10000000	10000000
Basrah WTP	29	3	10	820000	105000	105000	2	1	1	100	105000	37800	110000000	110000000	0	110000000	110000000	0	1000	1000	10000000	10000000	10000000	10000000	10000000	10000000
Basrah WTP	30	3	10	860000	110000	110000	2	1	1	100	110000	39600	110000000	110000000	0	110000000	110000000	0	1000	1000	10000000	10000000	10000000	10000000	10000000	10000000
Basrah WTP	31	3	10	900000	115000	115000	2	1	1	100	115000	41400	110000000	110000000	0	110000000	110000000	0	1000	1000	10000000	10000000	10000000	10000000	10000000	10000000
Basrah WTP	32	3	10	940000	120000	120000	2	1	1	100	120000	43200	110000000	110000000	0	110000000	110000000	0	1000	1000	10000000	10000000	10000000	10000000	10000000	10000000
Basrah WTP	33	3	10	980000	125000	125000	2	1	1	100	125000	45000	110000000	110000000	0	110000000	110000000	0	1000	1000	10000000	10000000	10000000	10000000	10000000	10000000
Basrah WTP	34	3	10	1020000	130000	130000	2	1	1	100	130000	46800	110000000	110000000	0	110000000	110000000	0	1000	1000	10000000	10000000	10000000	10000000	10000000	10000000
Basrah WTP	35	3	10	1060000	135000	135000	2	1	1	100	135000	48600	110000000	110000000	0	110000000	110000000	0	1000	1000	10000000	10000000	10000000	10000000	10000000	10000000
Basrah WTP	36	3	10	1100000	140000	140000	2	1	1	100	140000	50400	110000000	110000000	0	110000000	110000000	0	1000	1000	10000000	10000000	10000000	10000000	10000000	10000000
Basrah WTP	37	3	10	1140000	145000	145000	2	1	1	100	145000	52200	110000000	110000000	0	110000000	110000000	0	1000	1000	10000000	10000000	10000000	10000000	10000000	10000000
Basrah WTP	38	3	10	1180000	150000	150000	2	1	1	100	150000	54000	110000000	110000000	0	110000000	110000000	0	1000	1000	10000000	10000000	10000000	10000000	10000000	10000000
Basrah WTP	39	3	10	1220000	155000	155000	2	1	1	100	155000	55800	110000000	110000000	0	110000000	110000000	0	1000	1000	10000000	10000000	10000000	10000000	10000000	10000000
Basrah WTP	40	3	10	1260000	160000	160000	2	1	1	100	160000	57600	110000000	110000000	0	110000000	110000000	0	1000	1000	10000000	10000000	10000000	10000000	10000000	10000000
Basrah WTP	41	3	10	1300000	165000	165000	2	1	1	100	165000	59400	110000000	110000000	0	110000000	110000000	0	1000	1000	10000000	10000000	10000000	10000000	10000000	10000000
Basrah WTP	42	3	10	1340000	170000	170000	2	1	1	100	170000	61200	110000000	110000000	0	110000000	110000000	0	1000	1000	10000000	10000000	10000000	10000000	10000000	10000000
Basrah WTP	43	3	10	1380000	175000	175000	2	1	1	100	175000	63000	110000000	110000000	0	110000000	110000000	0	1000	1000	10000000	10000000	10000000	10000000	10000000	10000000
Basrah WTP	44	3	10	1420000	180000	180000	2	1	1	100	180000	64800	110000000	110000000	0	110000000	110000000	0	1000	1000	10000000	10000000	10000000	10000000	10000000	10000000
Basrah WTP	45	3	10	1460000	185000	185000	2	1	1	100	185000	66600	110000000	110000000	0	110000000	110000000	0	1000	1000	10000000	10000000	10000000	10000000	10000000	10000000
Basrah WTP	46	3	10	1500000	190000	190000	2	1	1	100	190000	68400	110000000	110000000	0	110000000	110000000	0	1000	1000	10000000	10000000	10000000	10000000	10000000	10000000
Basrah WTP	47	3	10	1540000	195000	195000	2	1	1	100	195000	70200	110000000	110000000	0	110000000	110000000	0	1000	1000	10000000	10000000	10000000	10000000	10000000	10000000
Basrah WTP	48	3	10	1580000	200000	200000	2	1	1	100	200000	72000	110000000	110000000	0	110000000	110000000	0	1000	1000	10000000	10000000	10000000	10000000	10000000	10000000
Basrah WTP	49	3	10	1620000	205000	205000	2	1	1	100	205000	73800	110000000													