

	No.	sum in m	Cost/m Nett	Cost/m gross	Cost/m China	Cost/m Kabul	Cost nett	Cost gross	Cost fob China	Cost Kabul
<b>Piping costs</b>										
Length of one side of 800 gerib (160,000m2) 1264m by 1264m	1264									
trees planted at 3 meter apart in 1 Gerib	200									
length of one side of gerib	44m									
length of one side of 3 gerib	132m									
Max. Length of any main artery from reservoir	600m									
at every 2 gerib an arterial main pipe of length 135m PE63 DN32 PN4	135	80.00	10,800	0.298	0.480	0.500	0.800	3,218	5,184	5,400
Length of main pipe DN63 PE63 PN6 to rows of 3 gerib in 800 gerib	600	10.00	6,000	0.656	1.200	1.980	2.800	3,934	7,200	11,880
length in m of DN20 tape pipe for 3 gerib @ 3.5m apart	88	37.00	3,256							
length in m of DN20 tape for 800 x44m gerib. Dripper @ 3.5m apart	35200	12.00	422,400	0.040	0.100	0.150	0.300	16,896	42,240	63,360
<b>Totals in US \$</b>								<b>24,048</b>	<b>54,624</b>	<b>80,640</b>
Cost of piping per girib								30	68	101
<b>Other costs</b>										
Number of T junction DN63 to DN32	80			1		2	3	80		160
Number of 4-way junction DN32 to DN20	4800			1		2	3	4800		9600
end stopper for DN20 Tape 12 x 800	9600			0.06		0.2	0.3	576		1920
universal clips	9600			0.05		0.05	0.08	480		480
No of 150m wells to bore and install casing and pump @\$4500 ea	10							45,000	45,000	45,000
No of airated reservoirs to build 40m3 ea @ 1.5m H x 3m L x 8m B	0.2	10	57	150				17,100	17,100	17,100
No of sand filter unit required with 2 channels ea.	12							3600	3,600	3,600
No of 25 Kw Generators	2							4000	4,000	4,000
No of 2 Kw water pumps	10							2000	2,000	2,000
Automation , Valves and electrical cabling								3000	3,000	3,000
Cost of road 15 km								18000	18,000	18,000
Fencing for 800 gerib = 5000m of high voltage low current fence	5000							1500	1,500	1,500
Cost of 2 small trenchers	2			3500				7000	7,000	7,000
4 x tractors MPV type trailers	4			1400				5600	5,600	5,600
Ladders, Tools, Lighting, Generators, spray canesters etc								8000	8,000	8,000
1 4x4 vehicle, 1x JCB 4CX tractor, trailer 12 tons, tractor mb1825								40000	40,000	40,000
Cost 300 m2 warehouse	300			80				24000	24,000	24,000
Cost od 150,000 polethylene black plant bags			130000	0.02				2600	2,600	2,600
Cost of irrigation, growing 1 year old trees to plant in Feb 2008								30000	30,000	30,000
<b>Totals in US \$</b>								<b>217,336</b>	<b>211,400</b>	<b>223,560</b>
<b>Total cost of irrigation pipe installation for 800 Gerib \$</b>								<b>241,384</b>	<b>266,024</b>	<b>304,200</b>
<b>Running costs</b>	Months									
Labour \$65 per month General full-time	12	10		65				7,800		
Water 3 litres /day/tree from well @ \$0.24 per m3	7	115000		0.27				13,041		
Fertilizer and minerals and OKO pestisides								6,000		
Labour for 1 month clearing and pruning etc		100		45				4,500		
<b>Total 1 year running cost of 800 Gerib \$</b>								<b>31,341</b>	<b>31,341</b>	<b>31,341</b>
Labour for 1 month harvest and cleaning after 4years		300		35				10,500	10,500	10,500
Storage, Cooling, bagging, marketing								20,000	20,000	20,000
<b>Total 3 years running cost after harvest of 800 Gerib \$</b>								<b>124,523</b>	<b>124,523</b>	<b>124,523</b>
									61,841	
<b>Total costs for 4 years for 115000 trees</b>								<b>365,907</b>	<b>509,363</b>	<b>658,531</b>
<b>Cost of one 4 year old tree</b>								<b>3.18</b>	<b>4.43</b>	<b>5.73</b>
<b>Sales</b>										
Estimated no of Kg/tree is 4kg in 3rd year @ \$3.50/kg	3	115000		3.5				1,207,500	1,207,500	1,207,500
<b>Profit after 4 years</b>								<b>841,593</b>	<b>698,137</b>	<b>548,969</b>
Return on investment after 4 years								230.00%	137.06%	83.36%
Profit each year for the first 4 years								<b>210,398</b>	<b>174,534</b>	<b>137,242</b>
<b>Profit for each year after 4 years</b>								<b>1,145,659</b>	<b>1,145,659</b>	<b>1,145,659</b>
Average return on investment after 4 years								313.10%	224.92%	173.97%
<b>Total estimated profit producing life 7 years</b>								<b>7,715,547</b>	<b>7,572,091</b>	<b>7,422,923</b>
Total estimated return on investment over life of project								3196.38%	2489.18%	1943.95%



