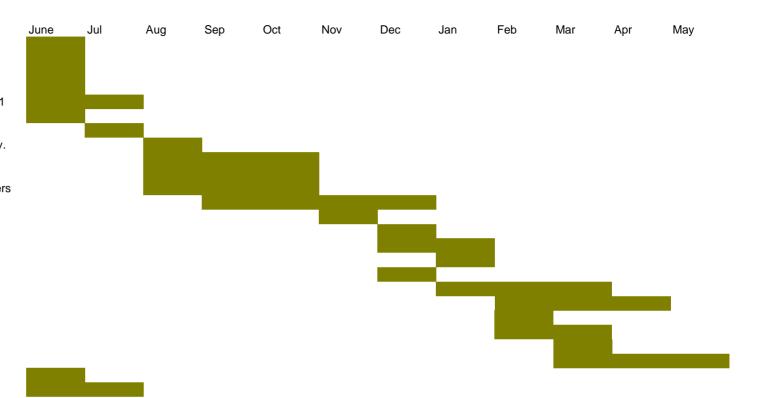
		No.	sum in m	Cost/m	Cost/m	Cost/m	Cost/m	Cost	Cost	Cost	Cost
Piping costs				Nett	gross	China	Kabul	nett	gross	fob China	Kabul
Length of one side of 800 gerib (160,000m2) 1264m by 1264m	1264										
trees planted at 3 meter apart in 1 Gerib	200										
length of one side of gerib	44m										
length of one side of 3 gerib	132m										
Max. Length of any main artery from resorvoir at every 2 gerib an arterial main pipe of length 135m PE63 DN32 PN4	600m 135	80.00	10,800	0.298	0.480	0.500	0.800	3,218	5,184	5,400	8,640
Length of main pipe DN63 PE63 PN6 to rows of 3 gerib in 800 gerib	600	10.00	6,000	0.256		1.980	2.800	3,934	7,200	11,880	16,800
length in m of DN20 tape pipe for 3 gerib @ 3.5m apart	88	37.00	3,256	0.000	1.200	1.000	2.000	0,001	1,200	11,000	10,000
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	126,720
Totals in US \$,					24,048	54,624	80,640	152,160
Cost of piping per girib								30	68	101	190
Other costs											
Number of T junction DN63 to DN32		80		1		2	3	80		160	240
Number of 4-way junction DN32 to DN20		4800		1		2	3	4800		9600	14400
end stopper for DN20 Tape 12 x 800		9600		0.06		0.2	0.3	576		1920	2880
universal clips No of 150m wells to bore and install casing and pump @\$4500 ea		9600 10		0.05		0.05	0.08	480 45,000	45,000	480 45,000	768 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	17,100
No of sand filter unit required with 2 channels ea.	0.2	12	37	130				3600	3,600	3,600	3,600
No of 25 Kw Generators		2						4000	4,000	4,000	4,000
No of 2 Kw water pumps		10						2000	2,000	2,000	2,000
Automation , Valves and electrical cabling								3000	3,000	3,000	3,000
Cost of road 15 km								18000	18,000	18,000	18,000
Fencing for 800 gerib = 5000m of high voltage low current fence		5000						1500	1,500	1,500	1,500
Cost of 2 small trenchers		2		3500				7000	7,000	7,000	7,000
4 x tractors MPV type trailers		4		1400				5600	5,600	5,600	5,600
Ladders, Tools, Lighting, Generators, spray canesters etc								8000	8,000	8,000	8,000
1 4x4 vehicle, 1x JCB 4CX tractor, trailor 12 tons, tractor mb1825		300		90				40000 24000	40,000	40,000 24,000	40,000
Cost 300 m2 warehouse Cost od 150,000 polethylene black plant bags		300	130000	80 0.02				2600	24,000 2,600	2,600	24,000 2,600
Cost of irrigation, growing 1 year old trees to plant in Feb 2008			130000	0.02				30000	30.000	30,000	30,000
Totals in US \$								217,336	211,400	223,560	229,688
Total cost of irrigation pipe installation for 800 Gerib \$								241,384	266,024	304,200	381,848
Total cost of irrigation pipe installation for 800 Genb \$								241,304	200,024	304,200	301,040
Running costs	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			
Total 1 year running cost of 800 Gerib \$								31,341		31,341	31,341
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
Total 3 years running cost after harvest of 800 Gerib \$								124,523		124,523	124,523
										61,841	
Total costs for 4 years for 115000 trees								365,907		509,363	658,531
Cost of one 4 year old tree								3.18		4.43	5.73
Sales											
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
Profit after 4 years								841,593		698,137	548,969
Return on investment after 4 years								230.00%		137.06%	83.36%
Profit each year for the first 4 years								210,398		174,534	137,242
Profit for each year after 4 years								1,145,659		1,145,659	1,145,659
Average return on investment after 4 years Total estimated profit producing life 7 years								313.10% 7,715,547		224.92% 7,572,091	173.97% 7,422,923
Total estimated profit producing file 7 years Total estimated return on investment over life of project								3196.38%		2489.18%	1943.95%
								2.00.0070		00070	. 3 .0.00 /0

Purchase of LLDPE plastic pots from Pakistan 130,000 Purchase of 1000m3 1cm gravel Purchase of 2700 m3 of Cow Manure Purchase of 130,000 almond kerns Potting of 130,000 almond kerns in pots and Manure mix 3:1 Digging of 1 well 150m and casing plus pump near nursery Purchasing plastic piping for nursery with shower system Arranging for deposit of plastic pipe manufacturing 30% adv. Make good preperation of Factory facility Drill and case 5 wells and case and cover Purchase of general equipment and building of living guarters Build aerated ponds for water distribution Plastic pipe plant ready for depatch arrange final payment Pipe factory arrival in Mazar with installers Installation of pipe factory and comissioning First production of pipe for 800 gerib location Purchase of and delivery of small trencher Installation of pipe irrigation system Planting of 115,000 trees Installation of pumps and other automation equipment drilling of a further 5 wells Installation of Automation and pumps First watering of plants Purchase of sample dripper tape Laying of dripper tape and testing

Months



Plant costings	Dimension			Initially	or Initially								
Costs Cost of equipment to produce 16-25mm LDPE dripper tape	45M*4*4M		\$ 450,000										
Cost of 16mm irrigation drip tape machine	7M*4*4M		45,000	45,000	45,000		Chiller and compressor 50square meters					eters, can be outsi	de
Cost of equipment to produce 20-63mm HDPE pipe	36M*3*4M		,	71,600	,	recycling 60square meters							
Cost of equipment to produce 20-90mm HDPE pipe			98,000		98,000	WAREHOUSE FOR MATERIAL 1000 SQUARE METERS							
Cost of equipment to produce 90-280mm HDPE pipe	45M*3*4M		102,000					JSE FOR FIN				RE METERS	
Cost of equipment to produce 315-630mm HDPE pipe	64M*4*4M		260,000					FOR LABOTA			60 SQUAR		
Cost of factory building, warehouse and outbuildings			180,000	80,000	,			E WAREHOL					
Cost of electrical installation equipment and automation			35,000 30,000	20,000 10,000			THE PROD	OCT CAN BE	PUI 0015	IDE AND JU	SI MAKE S	HELF ENOUGH	
Cost of transport of equipment from china Cost of commissioning			30,000	10,000	,								
Cost of water systems			18,000	8,000									
Cost of video systems Cost of silos, crusher, chiller, printer, mixers etc			50,000	24,000	,								
Total cost of equipment			1,298,000	268,600	299,000								
lucionation dein tono montino montino													
Irrigation drip tape machine production OD	1	6 MM	MATERIAL	LDPE									
WALL THICKNESS		8 MM	PRICE		USD/KG								
DRIPPER DISTANCE		0 MM	DENSITY		G/CM3								
DRIPPER LAPPING AREA		8 MM	MACHINE SPEED										
WEIGHT	10.8799191		OUTPUT	22.84783									
COST	0.01000952	6 USD/M	INSTALLED POW	50	KW								
				80%									
Production of other HDPE pipe machinery	Power Kw/Hr	Cost	rate range of prod	duction									
Equipment Eagle Dripper Tape 16-20mm extruder line	rowei Kw/ni	Cost	rate range of proc	auction									
Running costs	Cost \$0.09/kwh	\$/Hr	Kg/Hr										
Cost of running 16-25mm LDPE dripper tape		0 4.5		16	20								
weight of HDPE Kg/m				0.00574	0.01145								
Meters produced/Hr				6,000	5,000								
Cost per \$/m LDPE Price=\$1450/Tonne				0.0105	0.0197								
Price/m for sale \$				0.0800	0.1000								
Profit/8 hr day				3,335									
Days Break-even period HDPE Price delivered = \$1100				135									
Equipment Wuxi Kangda pipe 20-90mm extruder line													
Cost of running 20-90mm HDPE pipe	8	9 8.0	1 50-150 (100 used)	20	25	32	40	50	63	75	90		
weight of HDPE Kg/m PE63 PN6				0.121515		0.203899	0.258821	0.407707	0.638291	0.907439	1.292432		
Meters produced/Hr				840	840	720	630	450	300	250	180		
Cost per \$/m				0.1432	0.1810	0.2354	0.2974	0.4663	0.7288	1.0302	1.4662		
Price/m for sale \$				0.21	0.26	0.34	0.43	0.68	1.06	1.49	2.13		
Price in Kabul \$				0.38	0.50	0.80	1.20	1.80	2.80	5.00	6.00		
Savings from Kabul price				83% 433	91% 547	134% 610	178% 675	166% 755	165%	235% 927	182%		
Profit/8 hr day Days Break-even period				226	547	610	0/3	755	787	927	950		
Equipment Wuxi Kangda pipe 110-280mm extruder line				220									
Cost of running 110-280mm HDPE pipe	17	6 15.84	4 100-300 (200 used	110	125	140	160	180	200	225	250	280	
weight of HDPE Kg/m			,	1.950065	2.498630	3.152054	4.098835	5.169727	6.417654	8.107466	9.994520	12.534162	
Meters produced/Hr				130		90	75	60	50	40	34	50	
Cost per \$/m				2.2669	2.8925	3.6433	4.7199	5.9507	7.3762	9.3142	11.4599	14.1044	
Price/m for sale \$				3.4003765					11.06433	13.971319		21.156568	
Price in Kabul \$				5.67	7.23	9.11	11.80	14.88	18.44	23.29	28.65	35.26	
Savings from Kabul price				67%	67%	67%	67%	67%	67%	67%	67%	67%	
Profit/8 hr day Days Break-even period				1,179 87	1,273	1,312	1,416	1,428	1,475	1,490	1,559	2,821	
Cost of running 315-9630mm HDPE pipe	41	9 37 7	1 100-600 (400 used	315	355	400	450	500	560	630			
weight of HDPE Kg/m			(.00 0001	15.873967			32.310796	39.845758	49.988449	63.329161			
Meters Produced/Hr				40	32	26	22	19	15	13			
Cost per \$/m				18.4041	23.2805	29.5717	37.2560	45.8151	57.4520	72.6789			
Price/m for sale \$				27.61	34.92	44.36		68.72	86.18	109.02			
Price in Kabul \$				36.81	46.56	59.14	74.51	91.63	114.90	145.36			
Savings from Kabul price				33%	33%	33%	33%	33%	33%	33%			
Profit/8 hr day Days Break-even period				2,945	2,980	3,075	3,279	3,482	3,516	3,634			
Days Dreak-even penou				88									