

# KAREZ AND MASTUNG CASE STUDY

Refill Colors In Life

Karez (Natural underground water system) are indigenous and traditional irrigation system in Balochistan to regulate the flow of subsurface water. This is developed in the base of watershed of mountainous area following water-bearing formation to bring water from a higher elevation to the ground surface at a lower elevation through gravity flow. Karez Dand was also a source of water for irrigation and drinking purpose of 135 households comprising of 857 men women and children. These communities with their ancestors were served by this Karez for last 1500 years. The communities used to have a very happy and prosperous life. They were financially very strong and were considered as rich community. **But** a severe and persistent drought of Seven years had stolen their all the happiness. The land lords (Meer, Mohtabar, Thakari) became the servants. Some families migrated to other areas for livelihood. The beautiful picture of the village turned into the worst condition. The life was paralyzed in the village.

BRSP social mobilization team moved to the area with the aim to form a community organization. The community was vulnerable and also the members were very cooperative. After CO formation they expressed their views about the life before and after the severe drought. It was miserable story. How the land lords becomes the beggar we could see in the village. Many follow-up visits were conducted and their needs were identified. While giving the priority to their needs by themselves they encouraged the rehabilitation of Karez. BRSP technical and social team analyzed the result if Karez is rehabilitated and agreed upon to facilitate the community with their own cooperation.

On February 16, 2007 an agreement was signed between BRSP and CO for rehabilitation of Karez and Physical work was executed from April 05, 2007. After 15 months efforts on June 13, 2008 the rehabilitation of Karez was completed successfully. Now once again the Karez is producing adequate water which is not only used for the households purpose but the land owners again have started cultivation. The communities which have moved to other areas for livelihood came back to their native place. We are very much thankful to BRSP for their all efforts for bringing all the happiness back to the villagers life, bringing the relatives nearer once again.

## Benefits Sheet of Karez Dand-CPI Project

Sr#	Crops name	2007	2008	2009
1	<b>Wheat</b>			
	Acres	6	100	100
	Total income	45,000	875,000	612,000
	Expenditure	15,000	300,000	330,000
	Net benefits	30,000	575,000	615,000
2	<b>Acinus / Sycamine (Toot)</b>			
	Acres	5	5	5
	Total income	22,000	210,000	288,000
	Expenditure	-	-	-
	Net benefits	22,000	210,000	288,000
3	<b>Tomato</b>			
	Acres	NIL	10	10
	Total income		1,000,000	1,100,000
	Expenditure		100,000	150,000
	Net benefits		900,000	950,000
4	<b>Alfalfa</b>			
	Acres	NIL	10	10
	Total income		500,000	530,000
	Expenditure		70,000	90,000
	Net benefits		430,000	440,000
5	<b>Corn</b>			
	Acres	NIL	15	15
	Total income		300,000	375,000
	Expenditure		120,000	150,000

	Net benefits		180,000	225,000
6	<b>Water Melon</b>			
	Acres	NIL	1	2
	Total income		30,000	66,000
	Expenditure		8,000	20,000
	Net benefits		22,000	46,000
7	<b>Sorghum</b>			
	Acres	NIL	15	15
	Total income		270,000	315,000
	Expenditure		120,000	145,000
	Net benefits		150,000	170,000
8	<b>Turnip</b>			
	Acres	NIL	10	15
	Total income		250,000	421,000
	Expenditure		150,000	200,000
	Net benefits		100,000	221,000
9	<b>Spanish</b>			
	Acres	NIL	5	7
	Total income		100,000	161,000
	Expenditure		20,000	35,000
	Net benefits		80,000	12,6000
10	<b>Lady Finger/Arbitrage</b>			
	Acres	NIL	1	2
	Total income		30,000	70,000
	Expenditure		5,000	12,000
	Net benefits		25,000	58,000

<b>11</b>	<b>Ridge gourd</b>			
	Acres	<b>NIL</b>	<b>1</b>	<b>2</b>
	Total income		<b>30,000</b>	<b>70,000</b>
	Expenditure		<b>5,000</b>	<b>12,000</b>
	Net benefits		<b>25,000</b>	<b>58,000</b>
<b>Total Net Benefit</b>	<b>52,000</b>	<b>2,697,000</b>	<b>3,197,000</b>	
<b>Total</b>				
	<b>Acres</b>	<b>11</b>	<b>173</b>	<b>183</b>
	<b>Total Income</b>	<b>67,000</b>	<b>3,595,000</b>	<b>4,341,000</b>
	<b>Expenditure</b>	<b>15,000</b>	<b>8,980,00</b>	<b>1,144,000</b>
	<b>Total Benefits</b>	<b>52,000</b>	<b>2,697,000</b>	<b>3,197,000</b>
<b>Per Household Income</b>		<b>385</b>	<b>19,978</b>	<b>23,681</b>
<b>Per Person Income</b>		<b>61</b>	<b>3,147</b>	<b>3,730</b>