MAC RE PRENCE CHUTTH

DANIDA

Programme pour le Développement Intégré des Pêches Artisanales en Afrique de l'Ouest (DIPA)



Programme for Integrated Development of Artisanal Fisheries in West Africa (IDAF)



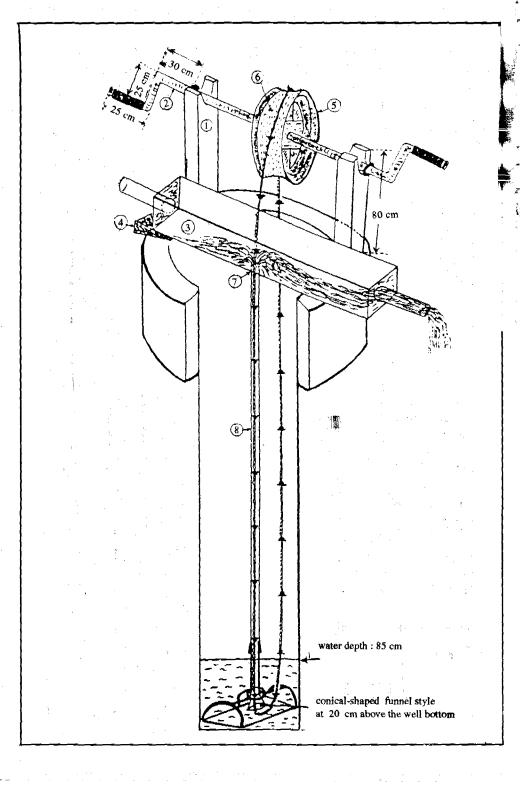
DO - IT - YOURSELF!!

AN

EFFICIENT

DURABLE

BUT CHEAP WATER PUMP.

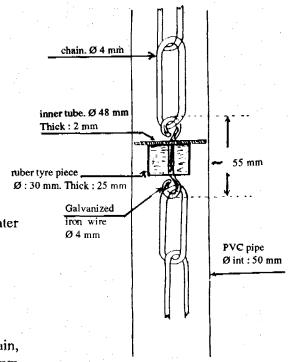


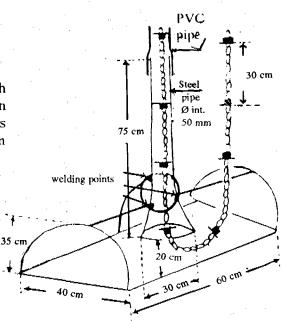
Caption

- 1 Hard wood frames, 12 x 9cm
- 2 Axle and handles, galv. Steel pipe diameter: 2.5cm
- 3 Water collector
- 4 Wooden block to incline the Water collector toward the tank
- 5 Second hand wheel of small car diameter: 28.5cm. wide: 11.5cm
- 6 Asperities anti slipperry for the chain, iron rods diam. 3mm. Length 6 8 mm
- 7 PVC pipe inserted ~ 5cm inside the bottom of the water collector
- 8 Total length of the pipe = 5.50m

PUMP OUTFLOW

During the trials, with a person on each handle, an outflow of 82 litres/mn has been observed by filling a tank of 739 litres contents in 9 minutes, or 82 1.. x 60mm = 4800 litres per hour.





ESTIMATED COSTS FOR MAKING AND INSTALL THE WATER PUMP ON A WELL OF THE UDP of AYIGUINNOU VILLAGE, GRAND-POPO. BENIN.

One piece of hard wood: 4 m x 0.30m 0.10m, +sawing and planing:				4,000
One non galvanized chain, diametre 4mm, length 13:				21,560
One oilclocth plastified sheet, (1M2), to make the collector waterproof: 2,40				
One PVC pipe, diameter int: 50mm, length: 4m:				3,400
Forty cylindrical rubber pieces making the pistons at rate of F		• •	0mm x 30mmH f	or 14,000
One second hand inner tube, for	r making the	membranes	s above pistons:	200
One steel pipe, O int: 50mm x style of 2mm Thickness:	1.50 m, + one	steel coni	cal - shaped funr	nel 1,300
$(x_1, x_2, y_{13}, 1, \dots, x_n) = (x_1, \dots, x_n)$			4.50	THE R
One iron rod, length needed: 8	3.50 m, for ma	king the pi	pe support frame	: 1,500
Frame painting, 500 grams:				. 800
One tube of 125 grams of PVC	glue:			1,340
One kilo of nails of various len	igths:		・ A District A Miles And A - And A Miles And A Miles - And A Miles And A Mil	1,000
One coil of galvanized iron wir	e, Ø : 3.5mm :			2,440
Carpenter assistant: 4 working	days x 1500 I	FCFA/ day		6,000
Total in F	CFA		<u> </u>	60,000

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