



TGUP Project Details

Latrines for Saving Children

Bonyoh Hamlet, Ban, Indonesia

PROJECT NAME:

Bonyoh, Bali Latrines Project
for Saving Children's Lives

PROJECT SUMMARY:

East Bali Poverty Project will build 36 engineered latrines throughout the hamlet of Bonyoh located high in the mountains of East Bali. In the past three years, TGUP had funded 126 similar such units. The goal is to insulate the water supply from human waste and reduce related sicknesses. The latrines cost \$296 apiece to install and will last at least 25 years. The latrines also include a small bathing facility to help improve children's health. All of the costs of the project are for materials: concrete blocks; cement; pipes; toilets. All of the roofing and doors as well as labor are being contributed by local residents. This is one of the reasons the cost per unit is so low. The total cost for the project is \$10,656.



PROJECT PARTNERS:

The Global Uplift Project (TGUP) helps American students and individuals build classrooms and other infrastructure projects in the developing world, from donations as small as one dollar (hence its name). Since its founding in 2007, TGUP has completed more than 170 such projects in 17 countries in Asia, Central America, and Africa. TGUP is an IRS registered 501c3 nonprofit.

East Bali Poverty Project (EBPP) was established in 1988 as a nonprofit organization. Its purpose is to help the thousands of people in East Bali, Indonesia who are living in abject poverty without water, sanitation, roads, schools, health facilities, electricity, and other essentials of a dignified, safe, and humane life.

PROJECT MANAGEMENT:

East Bali Poverty Project

Senior Executive:

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Supervising Executive:

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The Global Uplift Project

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PROJECT DATES: ASAP

ABOUT THE COMMUNITY:

In the overall Ban community of East Bali, the majority of the 3,000 families in 19 sub-villages (hamlets) live in abject poverty without running water, sanitation, roads, schools, health facilities or electricity. Illiteracy is close to 100%. Malnutrition and iodine deficiency disorders (IDD) are endemic, iodine being the essential nutrient for healthy births, brain and body development.



When interviewed in November 1998 to determine their priorities, over 1,000 families requested children's education as a foundation for a better future. An inspiring and productive collaboration then began with the most disadvantaged communities. With the philosophy of "helping people to help themselves", all EBPP programs are designed as models that can be replicated, and executed by local people who directly transfer knowledge and appropriate technology within their communities.

The 18,000 acre area of Bonyoh has no water supply except roof rainwater collection reservoirs, piped water from mountain springs, and a small river carrying mountain runoff. The lack of latrines necessitates that people defecate in the bushes. The wind then blows dried fecal matter into the water, which is carried to the individual homes in open buckets.

The objective of building the latrines is to insulate the water supply from human waste and reduce related sicknesses.

The Bonyoh Hamlet is one of the most rural communities within Ban Village, with families sparsely scattered over a very large, extremely rugged area in the cleft between two volcanoes. None of the families have a toilet and still practice open defecation in the bush. The need is for 36 toilets for 146 people (some families live in the same compound as their relatives and will share one toilet/bathroom block per family compound).

**FAMILY LIST OF TOILET & BATHROOM BLOCKS FOR 36 BONYOH FAMILIES
BAN VILLAGE, KUBU, KARANGASEM, BALI**

No	Name	No. of Families	Total families	Age			
				0-5	6-12	13-16	>17
1	Wy Suadnyana	1	3	1	0	0	0
2	Ng Kembar	1	4	2	0	0	0
3	Wy Sudarma	1	4	0	1	0	1
4	Wy Suliadi	1	4	0	2	0	0
5	Ng Dedi	2	5	1	1	1	0
6	Ny Candra	1	4	0	1	0	1
7	Wy Tirta	1	3	0	0	0	1
8	Ngh Bakat	1	3	0	0	0	1
9	Wy Pasek	1	2	0	0	0	0
10	Wy Nyanyek	1	4	0	0	1	1
11	Kt Pakris	1	2	0	0	0	0
12	Ny Kari	1	5	0	0	2	0
13	Ngh Yasa	1	4	0	0	1	1
14	Ny Meni	1	6	1	2	0	0
15	Ny Jati	1	2	0	0	0	0
16	Km Sumerta	1	5	1	0	0	1
17	Kt Arta	2	5	1	1	1	0
18	Ng Merdit	1	5	0	1	1	1
19	Kt Saira	2	6	1	1	1	1
20	Kt Sulat	1	3	0	0	0	0
21	Wy Purna Santika Jaya	1	5	2	1	0	0
22	Kt Kasih	1	4	0	0	1	1
23	Wy Tantra	2	4	0	0	0	2
24	Ngh Bagia	1	4	1	1	0	0

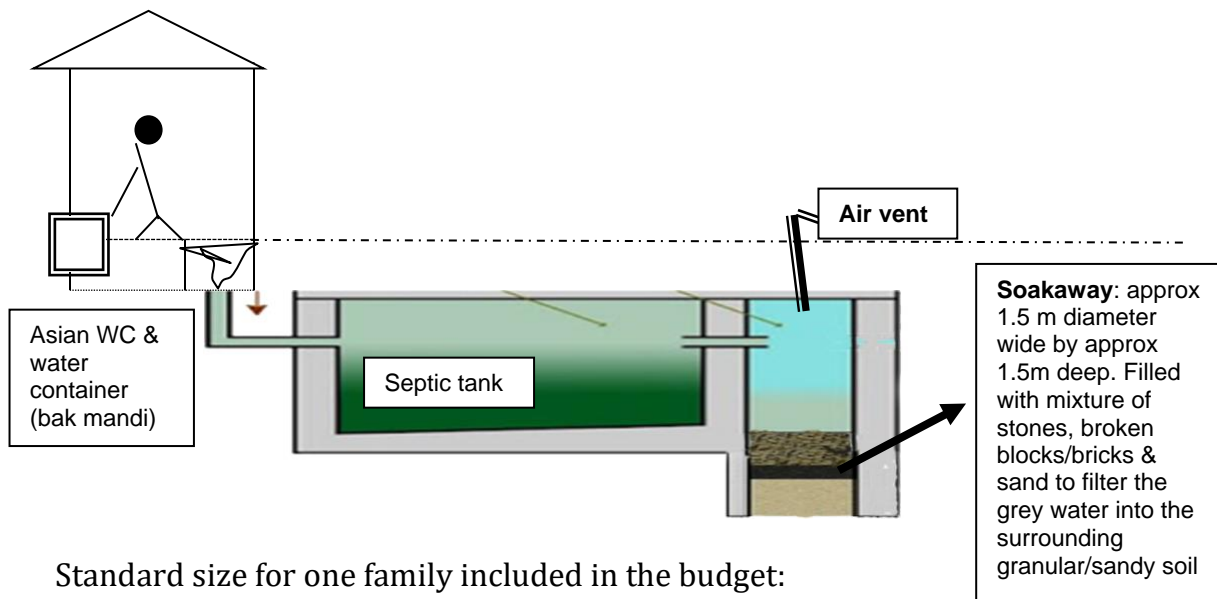
25	Wy Sumerta	1	4	1	1	0	0
26	Kd Darsana	1	4	1	0	1	0
27	Km Kartawan	1	3	1	0	0	0
28	Wy Tarka	1	4	0	0	1	1
29	Wy Wardita	1	4	1	1	0	0
30	Wy Wangsing	1	4	1	0	0	1
31	Wy Budiasa	2	6	1	0	0	0
32	Ngh Merta	1	4	2	0	0	0
33	Wy Sari	1	4	2	0	0	0
34	Kt Siram	1	6	1	1	1	1
35	Wy Joki	1	4	0	1	0	1
36	Ng Linggih	1	3	1	0	0	0
	Total:	37	146	23	16	12	16

ABOUT THE PROJECT:

- Build 36 toilet & bathroom blocks for 146 people in Bonyoh hamlet to improve the sanitation and reduce illness from fecal borne illnesses.
- Many families live in the same compound as their relatives so they will share one toilet/bathroom block per family compound.
- The project provides funding for building the toilet/bathroom blocks including purchasing cement, concrete blocks, closets, pipes, materials, delivery costs and EBPP team supervision & transport costs. The community (the beneficiaries) will contribute all the labors, doors & frames, roofing and sand materials.
- By completing the proposed components above, we will be improving the health and wellbeing of the entire community.
- The beneficiary families are all proud of their new sanitation and hygiene facility and all maintain to the highest standards, as evidenced by the first beneficiary communities of Cegi and Pengalusan whose toilets are cleaned regularly and still in pristine condition today.
- All toilets are constructed with correctly designed septic tank and 'soak away' and are supervised by EBPP experts.



INDIVIDUAL FAMILY TOILET/BATHROOM CONSTRUCTION DESIGN



Standard size for one family included in the budget:

- ✓ Bathroom: 1m x 1.5 m
- ✓ Septic tank: 1.2 wide x 1.5 deep x 2m long
- ✓ Materials in budget include for septic tank,
- ✓ basic bathroom to height of approx 1.7m

COMMUNITY OWNERSHIP FOR SUSTAINABILITY

This proposal requests only the materials and cost for EBPP infrastructure team to supervise the project to ensure good design, quality and durability. The beneficiary families are all proud of their new sanitation and hygiene facilities and promise to maintain them to the highest standards, as evidenced by the first beneficiary communities of Cegi and Pengalusan whose toilets built in 2010 are cleaned regularly and still in pristine condition today.

BUDGET FOR 1 TOILET/BATHROOM BLOCK:

Cost per toilet/bathroom block is **Rp4,266,082 (US\$296)**. The money donated will be used for building the toilet/bathroom blocks including purchasing cements, concrete block, closet, pipes, materials delivery costs and EBPP team supervision & transport costs. The community (the beneficiaries) will contribute with all the labours, door & frame, roofing and sand materials.

Please note the following and read in conjunction with the budget:

- Door frames (from local coconut wood), doors, fittings & roofs are completely provided by the families themselves as their participatory contribution – and asbestos is NOT permitted
- All labor to build the toilets, septic tanks etc. is provided by the beneficiary families
- Completion is not approved/certified until the roof and door have been fixed

BUDGET DETAILS FOR TOILETS/BATHROOMS:

No	DESCRIPTION	Qty	Unit rate	TOTAL BUDGET (IDR)
A	Materials			
1	Clinker blocks (Batako)	500/Toilet	2.100	1.050.000
2	Cement	10 sacks/toilet	67.000	670.000
3	Closet: Asiatic WC & connecting facilities	1 pc / toilet	110.000	110.000
4	Pipe 4" 2 meter	1 pc / toilet	30.000	30.000
5	L joint pipe 4"	1 pc / toilet	15.000	15.000
6	Door frame, door & door furniture	Contributed by the community		
7	Roof frame, roof cladding etc.	Contributed by the community		
8	Sand	Contributed by the community		
	Sub-total A			1.875.000
B	EBPP team supervision & transport costs			
9	EBPP 4WD vehicle transporting materials to site locations: cost for 4WD vehicle, including fuel & EBPP expert driver. Cost for 1 family = Rp437,500	1	437.500	437.500
10	EBPP motorcycles costs: Running & depreciation costs for one Trail bike is Rp97,500/day. With planned 7 toilets/week, average cost for 1 family = Rp195,000	2	97.500	195.000
11	EBPP staff to coordinate, train & oversee local community for their 100% participation in construction & thus "ownership" of their first ever toilet/bathroom facility: 2 infrastructure team staff plus supervision by Nyoman Widiassa, Coordinator of EBPP Water & Sanitation team: Proportion cost for 1 family = Rp497,000	1	497.000	497.000
	Sub-total B			1.129.500
	TOTAL			3.004.500
	Add 20% for EBPP administration & overhead			600.900
	Project Management			660.682
	GRAND TOTAL FOR 1 TOILET BLOCK IDR			4.266.082
	TOTAL FOR 1 TOILET BLOCK US\$			\$296
	TOTAL FOR 36 TOILETS IN IDR			153.578.952
	TOTAL FOR 36 TOILETS IN US\$			\$10,656

- Toilet building size 1m x 1,5m
- The materials price based on the local supplier who has a contract with us confirming that he will not increase the materials price before toilet program is completed.
- Community can make their toilet/bathroom blocks larger than our standard size but they have to provide all the additional materials
- Community will provide the labor, sand, roof, door, plastering, etc.

Not included in the budget and provided by each family as their contribution & full participation:

- Roof from corrugated zinc or similar BUT *not* from asbestos;
- Door provided by owner including door frame;
- All sand, water and labor provided by owner;
- Water storage (bak mandi) provided by owner; and
- Contract agreement/MOU signed by each family in the individual hamlet

SUMMARY AND EVALUATION:

We rate this a high priority project. That is based on several factors:

- TGUP has an excellent, long-established working relationship with EBPP
- Holistic approach of EBPP to community development, health, and well-being
- Immediate reduction in illnesses due to fecal contamination of water supply
- Committed and enthusiastic families contributing substantially to reduce project costs
- Very low per unit cost in relationship to other TGUP projects and benefits gained
- Success in 5 earlier phases of the campaign, creating 126 similar such units

