

An example : elementary school SD09, Cunadak Air, Pariaman Utara :



Very poor quality foundations



Soil tests: water saturated down to ~1 m (vicinity of rice fields)



Masonry columns realized with poor quality bricks and without any connection to the wall.

SOLUTIONS :

- New foundations wherever possible



- Additional reinforcement columns.



- New structural elements : low and top beams



- Reinforcement columns at the corners of the buildings and arounds doors and windows



BoQ for a 36 square meter house:

No.	Discription	Volume	Unit	Unit Price (Rp)	Total (Rp)	Remarks
1	Foundation	9,00	unit	191 411,40	1 722 702,60	
2	Coulomn 15/15	9,00	unit	312 802,80	2 815 225,20	
3	Secondary Structure 13/13	27,00	m1	77 831,31	2 101 445,24	with litle foundation
4	Top beam 15/20	36,00	m1	126 342,70	4 548 337,20	
5	Plaster	5,00	m2	23 715,00	118 575,00	
6	Timber 5 x 12 cm	12,00	m1	32 000,00	384 000,00	Temporary support for wall and roofing
7	Brick wall	18,00	m2	60 000,00	1 080 000,00	Not always necessary
					12 770 285,24	