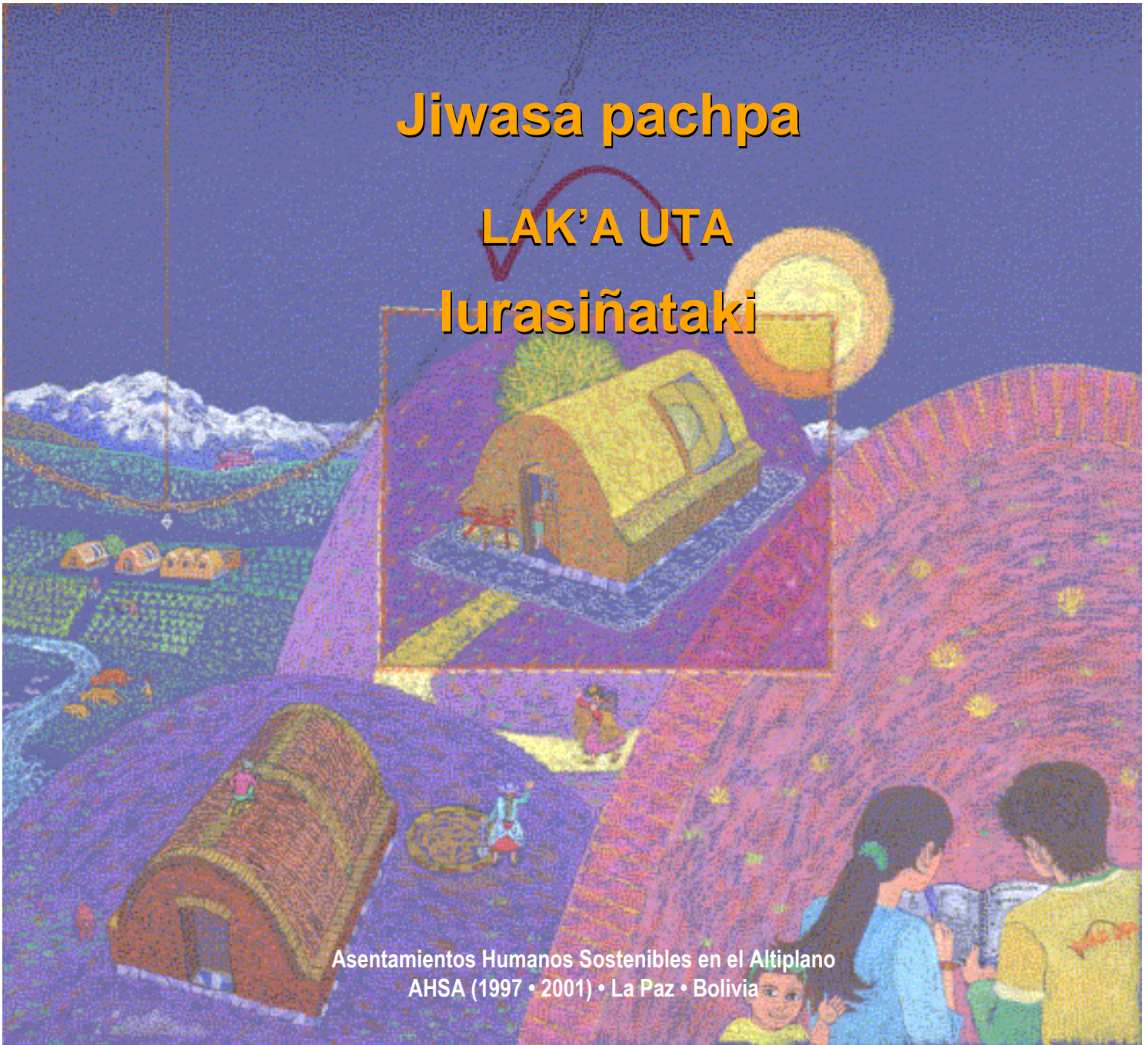


Jiwasa pachpa

LAK'A UTA

Iurasiñataki

Asentamientos Humanos Sostenibles en el Altiplano
AHSA (1997 • 2001) • La Paz • Bolivia



Jisawa pachpa Lak'a Uta Iurasiñataki

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**Jisawa pachpa Lak'a
Uta lurasin'ataki**

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2. Qalltäwi

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Uñanchäwi

Proyecto Asentamientos Humanos Sostenibles en el Altiplano- AHSA, sata amtäwixa nayratuqiru sartäwinaka amuyt'asawa kunanaksa luraña yanapt'i. Jaqi tuqita yatxat'ata pä ONG sata utt'awinakawa luraña yanapt'i. Mayaxa aka Bolivia tuqinkiriwa, Servicio de Asentamientos Humanos en Bolivia – SAHB sata utt'awi, mayaraki Dinamarca tuqinkiri, Servicio Danés Internacional de Asentamientos Humanos – DIB sata. Aka amtäwixa Secretaría de Desarrollo del Gobierno de Dinamarca – DANIDA sata utt'awina qullqimpi yanapt'atawa.

Pata tuqinakana utanakaxa janiwa suma luratäkiti, ukaxa suma jakañatakixa janirakiwa askikiti. Ukata jaqixa, sapa maynisa taqinisa, janiwa mä suma nayratuqiru sartirjamapkiti.

Ukata 1991 maratpacha Laq'a Uta lurañaxa qalltataxa ukaxa

aruwimpi utachxatatawa, lurañaxa janiwa ch'amäkiti, janirakiwa jila qullqitakikiti. Aka uta pirqanaka lurañatakisa, utachxatañatakisa laq'a aruwikiwa munasi. Aka utaxa aski utjasiñatakixa lupi junt'u katuqiriniwa Trombe pirqa sata. Uka pirqaxa inti tuqi uña pirqana luratarakiwa. Aruwixa jupapachpa junt'uwa, uruxa lupi junt'u katuqasawa imi, arumaraki uka junt'u uta manqharu irpanti.

Aka amtäwixa pata tuqina jiwasa pachpa Laq'a Uta lurasña jaqinakaruxa yaticht'araki.

Aka qillqataxa, Bolivia pata tuqina pisina jakasiri phamillanakatakiwa.



Qalltäwi

Aka Jiwasa pachpa Laq'a Uta lurasinañataki qillqataxa jasaki utasa lurasinañatakiwa, ukhamarusa jiwasa pachpa Laq'a Uta lurasinañatakiwa.

Jichha pachaxa jiwasa pachpawa aruwi utxa janiki suma uñjtanti, ukaxa inasa jani aruwita uta lurasinañatakiwa yatxstanti ukata ukhamächi, jani ukaxa aruwixa janikipuni yäqataxchisa.

Aka qillqatana utjirixa suxta jaljaru t'aqanuqatawa, ukana kunjamasa Laq'a Utraxa lurasinañatakiwa uka suma yatiyistu.

Taqini amuyapxañapatakixa yaqhipa amuyunakaxa qhana arunakampi arst'ata qillqt'atakirakiwa.

Amuyt'asasa Laq'a Utanaka lurasasa aka nayrii qillqataxa qhipa tuqiruxa juk'ampi suma askicht'ataxarakiniwa.



LAK'A UTAXA AKHAMA ASKINAKANIWA:

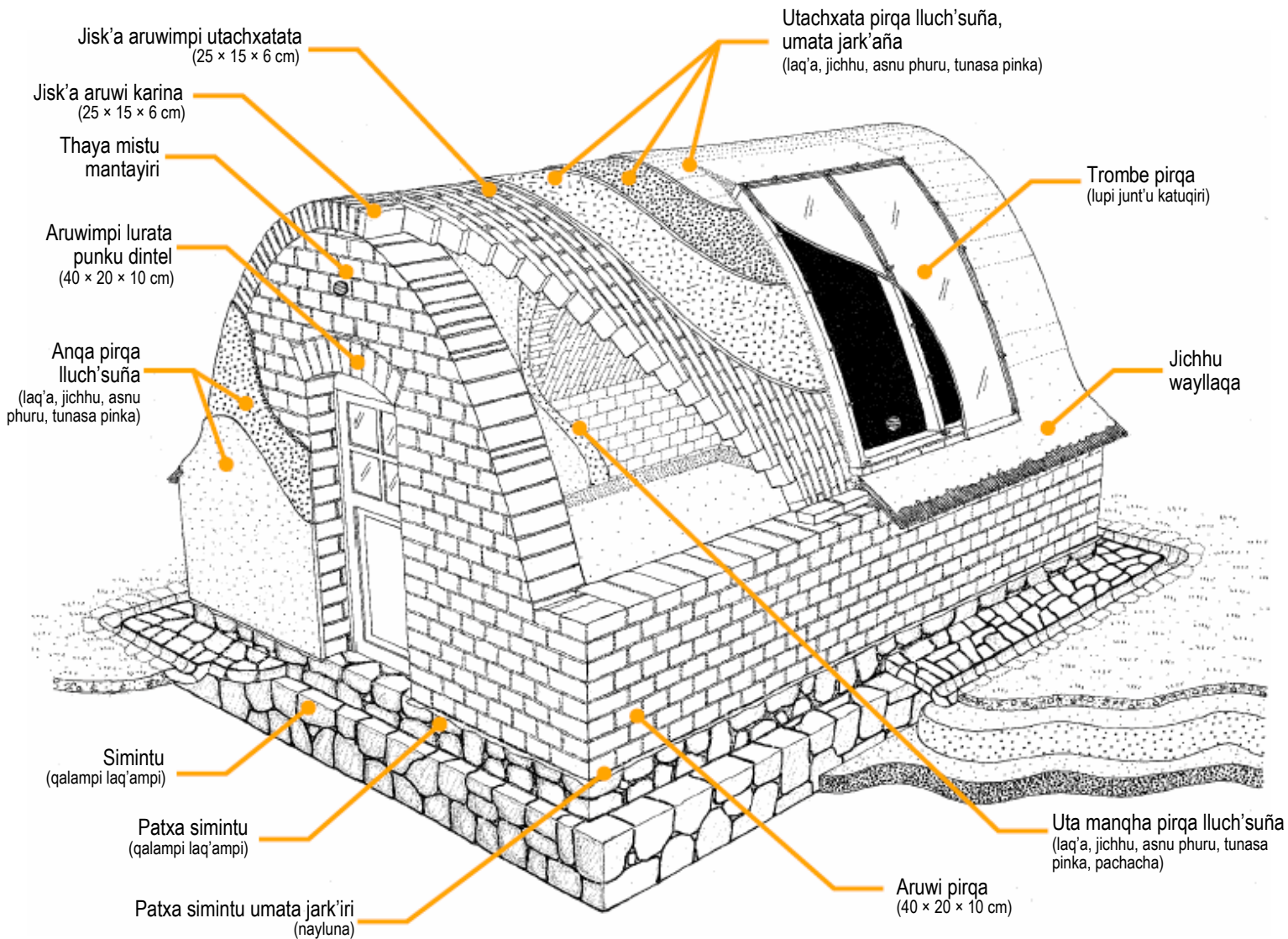
- Jiwasa tuqina utjiri yänakakiwa Laq'a Uta lurañatakixa wakisi, janiwa jila qullqitakikisa, jakañatakisa askirakiwa.
- Aka utaniñatakixa janiwa lawasa kalamina wakiskiti.
- Aruwimpi utachxatataxa janiwa jallusa chhijchhisa ist'askarakiti.
- Aka uta lurañaxa janiwa ch'amäkiti, janirakiwa walja jiramintasa munaskarakiti.
- Aruwi uta manqhaxa urusa arumasa mä aski junt'ukiwa. Ukaxa trombe pirqa sata junt'uchirimpixa juk'ampi askiwa.
- Uta manqha pirqanakaxa wali llusk'awa, ukata ukana janiwa kuna usunaka q'ipnaqiri laq'unakasa jakkaspati, janiwa winchukasa utjkaspati.
- Ninasa thayasa janiwa kamachkarakiti.
- Laq'a Utaxa kasta kasta luratarakispawa.
- Janiwa kuna ch'amasa wakiskiti.





Lajla **1**

**Mä Laq'a Utana
wakisirinakapa**





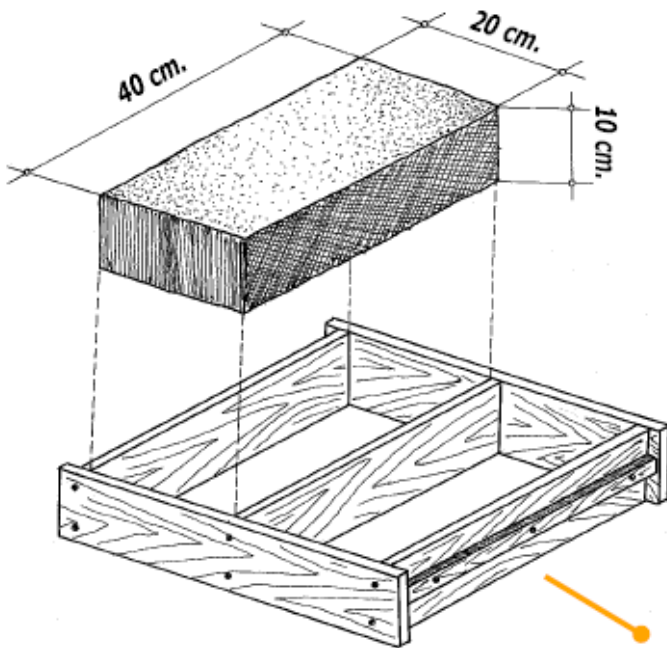
Lajla **2**

**Aruwinaka
ukhamaraki jisk'a
aruwinaka luräwi**

Aruwinakampi jisk'a aruwinakampi

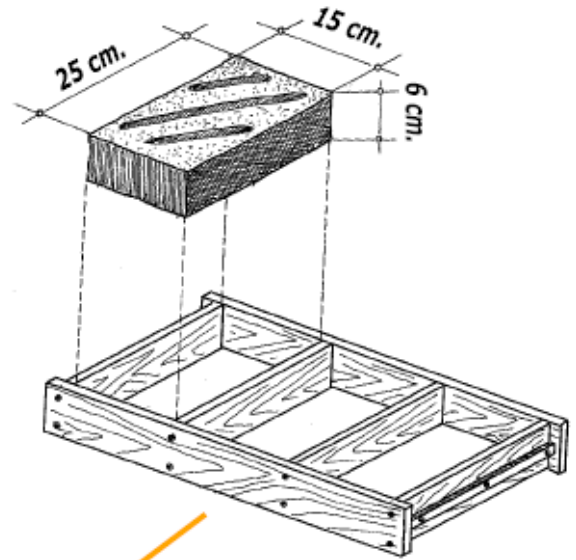
Aka laq'a tikanakaxa wali askiwa Laq'a Uta lurañatakixa.

Pirqanaka lurañataki aruwi.



Aruwinaka luraña aruwira

K'umphu pirqa lurañataki jisk'a aruwi.



Jisk'a aruwinaka luraña aruwira

Mã puljarani thuru lawa (1")

Luta luraña jiramintanaka

Uñt'atanakaraki jasa lurañakirakiwa.



Laq'a chhijllaña

- Aruwi luraña laq'axa akanakaniñapawa k'ink'uni, ch'allani, ñut'u laq'ani kuna.
- Janiwa qalaniñapakisa, t'unaniñapakisa, saphinakaniñapakisa.
- Aruwi lurañatakisa, jisk'a aruwinaka lurañatakisa yapu laq'axa janiwa askikiti, ukaxa p'atanukuñawa.



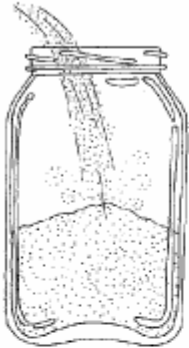
— Yapu laq'a
— Aruwimpi jisk'a aruwimpi luraña laq'a

Aruwimpi jisk'a aruwimpi lurañataki laq'a suma uñakipaña

Ukaxa aruwinaka ukhamaraki jisk'a aruwinaka lurañatakixa laq'axa walikiti janicha uka yatiñataki yant'äwiwa.

Laq'a utt'ayasa yant'aña:

Aka yant'äwixa laq'axa kunanakanisa uka yatiñatakiwa.



1. Mä qhispi pharaskuru susuta laq'a chikakamawa warantaña.

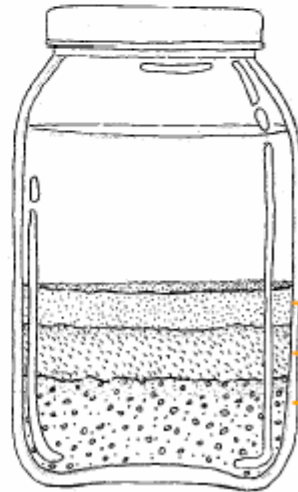


2. Ukaruxa umampiya warantaña, phuqhayañkama, jank'aki utt'añapataki mä kuchara jayumpi warantaraksnawa.

3. Uka pharasku suma llupantasa wali khiwtasa q'ala kittaña.



4. Laq'a utt'añapataki uka pharasku mä chiqaruwa uskuña.



● Ñut'u laq'a 20%

● Taypi ñutu laq'a 30%

● Chhama laq'a 50%

Ukata suma uñxataña, mä suma laq'axa akhama utt'añapa:

Laq'axa:

- jila k'ink'uninixa, ñut'u ch'allampiya yapxataña.
- jila ch'allaninixa k'ink'umpiya yapxataña.

Laq'a muruq't'ayasa yant'äwi:

Aka yant'äwimpixa laq'axa kunjamasa qawqha umanisa uka yatiñatakiwa.

1. Suma susuta mak'i laq'a katusa ampampipiwa muruq't'aña.



2. Uka laq'a muruq'u mä mitruta ch'ullqhi uraqiruwa jalaqtayaña.

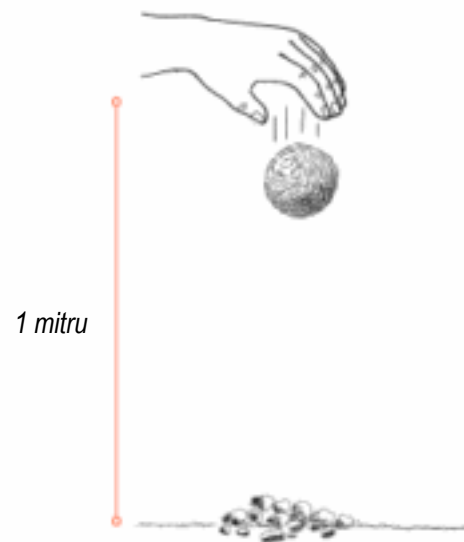
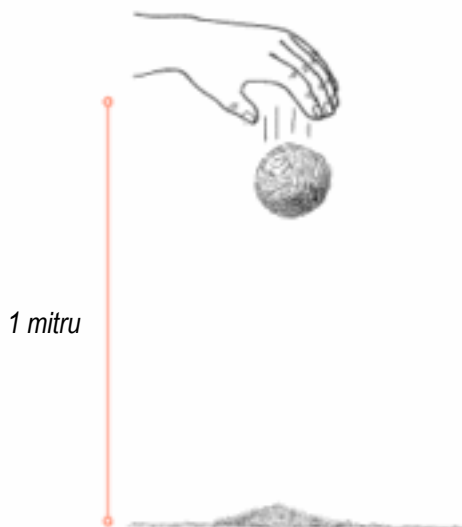
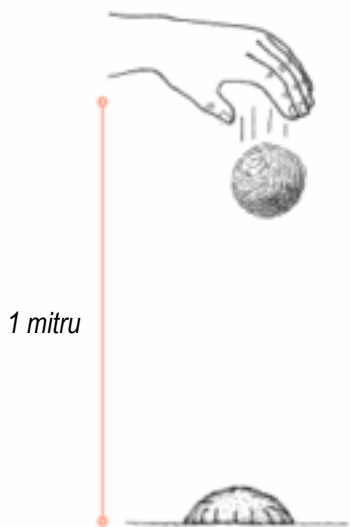
Jalaqtayataxa muruq't'atatakiskanixa sinti umaniwa; wañacht'añawa ukata wasitata jalaqtayasawa yant'aña.

Niya uka kikpa muruq't'atatakiskanixa sinti k'ink'uniwa, ch'allampipiwa yapt'aña.

Jalaqtayataxa t'una saranixa sinti wañawa; umacht'asa wasitata jalaqtayasawa yant'aña.

T'una saraskakinixa sinti ch'allaniwa, k'ink'umpiwa yapt'aña.

Jalaqtayataxa jach'pacha khulanakaru tukunixa, laq'asa umapasa aruwi lurañatakisa jisk'a aruwi lurañatakisa khusawa.



Laq'a t'alpht'asa yant'äwi:

Aka yant'äwimpixa laq'axa p'akuñtaspati janicha uka yatiñatakiwa. Suma wakicht'ata mä juk'a ñiq'i katusawa luraña.



1. Niya 20 cm tupuni lawjama ñiq'ita phalt'aña.
2. Uka phalt'ata ñiq'i mä khuskha pampa chiqaruwa uskuña, ukata t'alpjaña, niya chika centímetroni sillp'añapkama.

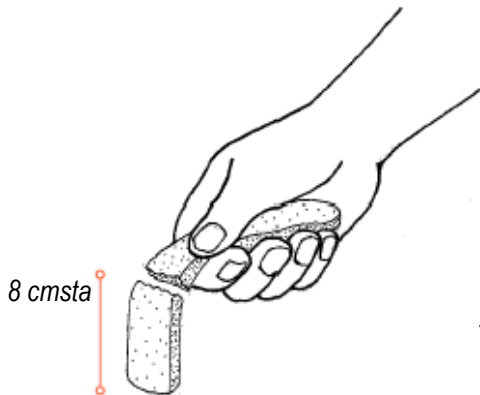


3. Uka t'alphtata ñiq'i, ampara t'axlliru uchaña, aka laphina luratäkisa ukhama. Ñiq'ina p'akuñtañapaxa akhama amuyaña:

Uka jisk'a t'alpha ñiq'ixa p'akisinixa:

Jisk'a

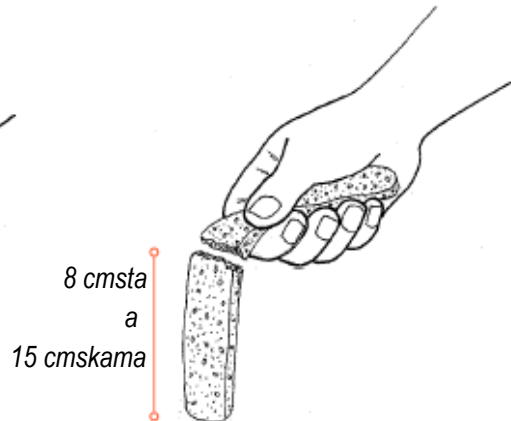
Janira 8 centímetronikasaxa p'akisinixa, sinti ch'allaniwa, k'ink'uwa yapxataña.



8 cmsta

Taypi

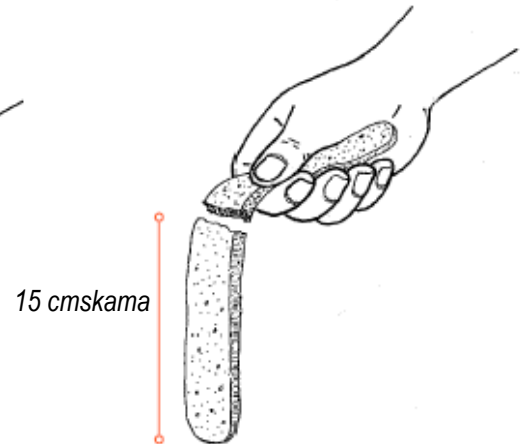
Niya 8 centímetronita 15 centímetronkamaxa p'akisinixa aruwitakixa suma laq'awa.



8 cmsta
a
15 cmkama

Jach'a

15 centímetronita juk'ampi jach'aru p'akisinixa, laq'axa sinti k'ink'uniwa, ch'allawa yapxataña.



15 cmkama

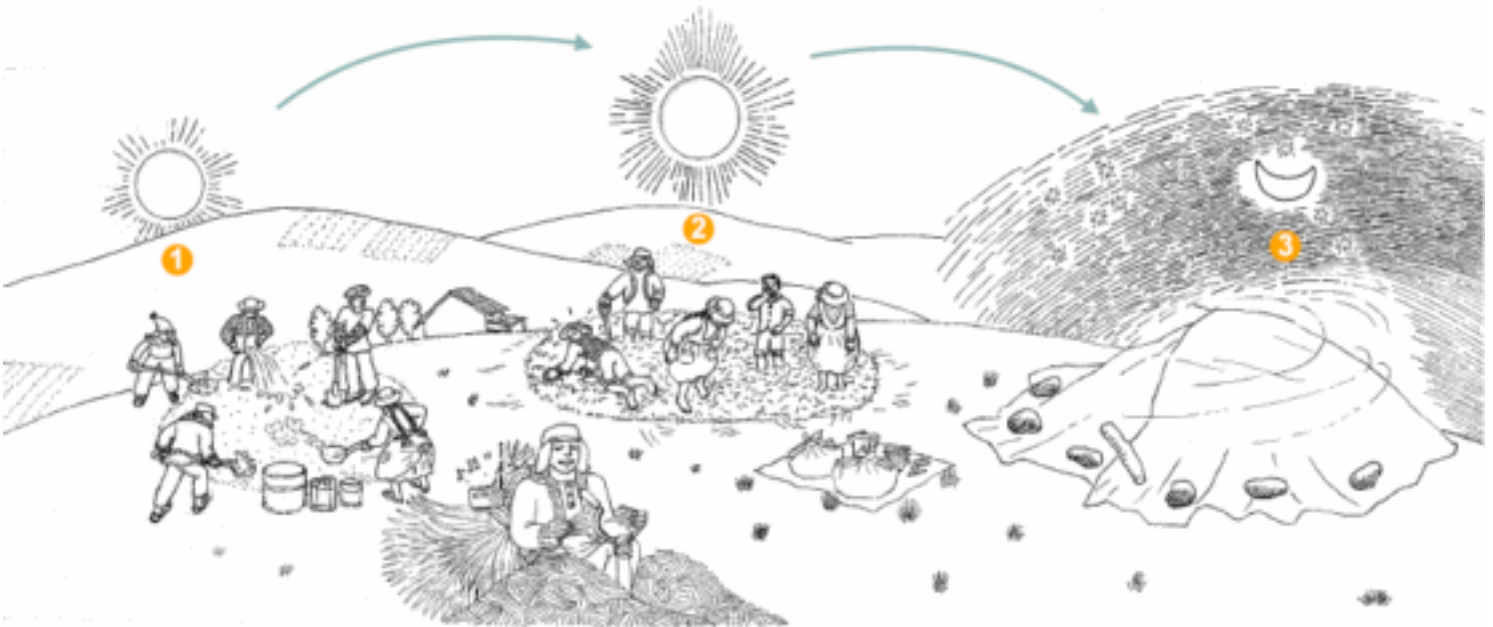
Luräwinakana thakhipa sarapa

Wakisiri yänaka

- Laq'a: uka laq'axa k'ink'uni, ch'allani, ñut'u laq'aniñapawa. Janiwa qalaniñapakisa, t'unaniñapakisa, saphinaniñapakisa.
- Uma: q'umañapawa, phujuta jani ukaxa jalsu umata waytanita (janiwa jayuk'arañapakiti).
- Jichhu: iru jichhu khuchhutañapawa, 10 cm tupuni jach'apchanaka aruwitakixa, 5 cm tupuni jisk'apchanaka jisk'a aruwinakatakixa.

Ñiq'i wakichäwi

1. Ñiq'ixa laq'ampi umampi kittasawa wakichaña, lampampi jaqukipasa jaqukipasa.
2. Umampi warxatasa warxatasa kayumpiwa taksuña, janiraki sinti waña janiraki sinti umani, Laq'a muruq't'ayasa yant'atarjama. Ukata jichhu khuchhuta wiyxataña. 20 karitilla laq'aruxa 1 karja jichhuwa uskuñaxa wakisi.
3. Uka ñiq'ichata mä chiqaru qutthapisaxa, jani wañsuñapatakixa jichhumpi wiyxatasa, jani ukaxa naylorampi imxatasaxa, mä arumawa ikiyaña.



Aruwinaka jisk'a aruwinaka tikachaña

Aruwinaka lurañatakisa jisk'a aruwinaka lurañatakisa mä pampa chiqawa suma q'uma khushkachaña.

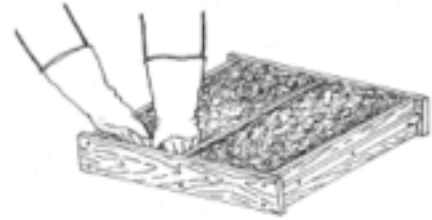
Aruwi lurañatakixa, ikita ñiq'xa wasitata kittaña.

Aruwiñatakisa jisk'a aruwinaka tikachañatakisa akhamawa thakhipa sarapaxa:

1. Nayraqataxa aruwi tikachaña yäxa suma ch'arana warirampiwa phishksuña, ukhamata ñiq'ixa jani lawaru lip'katkaniti.



2. Amparampi suma ñiq'ixa limt'aña, iskinanakasti wali ch'amampi.



3. Aruwiraru ñiq'impï phuqhantasaxa mä sillp'a lawampï jani ukaxa sunchumpï jilt'iri ñiqi pata tuqita qhuchhuqasa khushkachaña.



4. Ukata aruwira waysxaña, jani aruwinaksa jisk'a aruwinaksa usuchjasa.

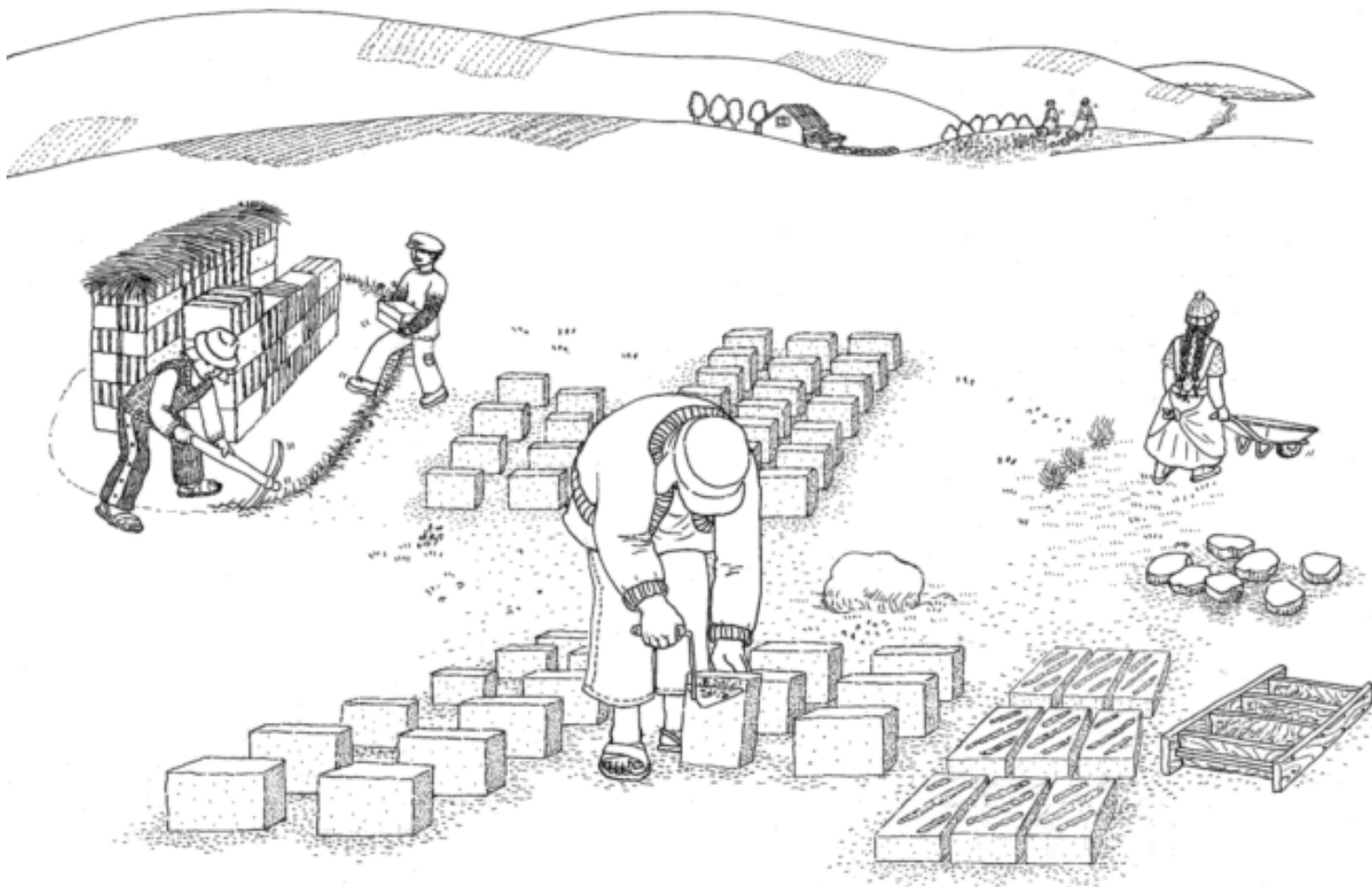


5. Sapa jisk'a aruwinakaruxa ampara luk'anankampi kimsa sukjama sich't'aña. Ukhamata jisk'a aruwinakaxa utachxatañatakixa suma mayampi mayampi lip'thapini.



Wañayañaata pirqthapiñaata

1. Aruwrarasaxa wañayañawa, aruwinakaxa kimsa uruwa wañayaña, jisk'a aruwinakaraki mä uru. Ch'urawi urunakasti jilpacha uruwa wañayaña.
2. wañarxipanxa sayarayañawa, ukata uraqinkkäna uka tuqixa suma khithurxañaraki.
3. Aruwinakaxa mä tunka payani uruwa sayarataña, jisk'a aruwinakasti pusi uru. Ukata pirqthapxaña.
4. Aruwinaksa jisk'a aruwinaksa pirqthapisaxa jallu umata jark'aqañawa, ukatakixa jichhumpi jani ukaxa naylunampiwa kurawxataña, kayu tuqitsti umaxa irpaqañarakiwa.



Khusati janicha uka yatiñataki

Aruwinakasa jisk'a aruwinakasa khusa luratati janicha uka yatxatañatakixa akhamawa yant'aña.

1. Ch'ullqhi tuqita:

a) Suma pampa uraqina mä juk'a jaljtataru pä aruwiwa uchaña, uka patxaruwa mä waña aruwisaxa itxataña, akana uñstki ukhama.



Suma lurata aruwixa mä jaqina taqxtataxa janiwa kamachaskanisa, p'akisini ukaxa k'ink'u pisitawa.



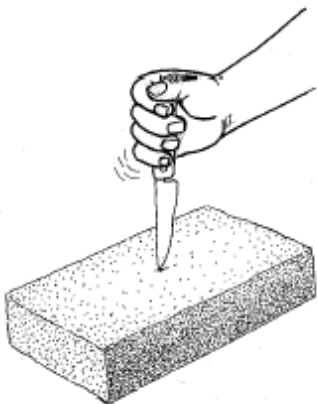
b) 1 mitruta mä aruwi iskinata jalaqtayasaxa, sumati janicha ukxa yatiraksnawa. Suma lurata aruwixa janiwa sinti usuchjaskaniti, jani suma luratakchixa t'unawa sarani.

1 mt.



2. Ch'arana tuqita:

Mä aruwirusa mä jisk'a aruwirusa kuchillumpiwa chhuqt'aña, chhuqt'ataxa mä 3 mm, piyantani ukaxa janirawa wañäkiti.



3. Ñiq'i wakichaña tuqita:

Aruwisa jisk'a aruwisa mayja k'ak'anuqtanisa jani yänisa wañ'anixa, jaqtxañakiwa.



Aruwi luräwi pacha

Aruwinakasa jisk'a aruwinakasa janiwa jallupachasa juyphipachasa lurañakiti.

Qawqhasa uruna lurası

Ñiq'i suma wakicht'atataxa, mä jaqixa mä uruna akhama luraspaxa:

- Aruwxa patakata (100) pataka phisqha tunkankama (150)
- Jisk'a aruwraki pä patakata (200) kimsa patakkama (300)



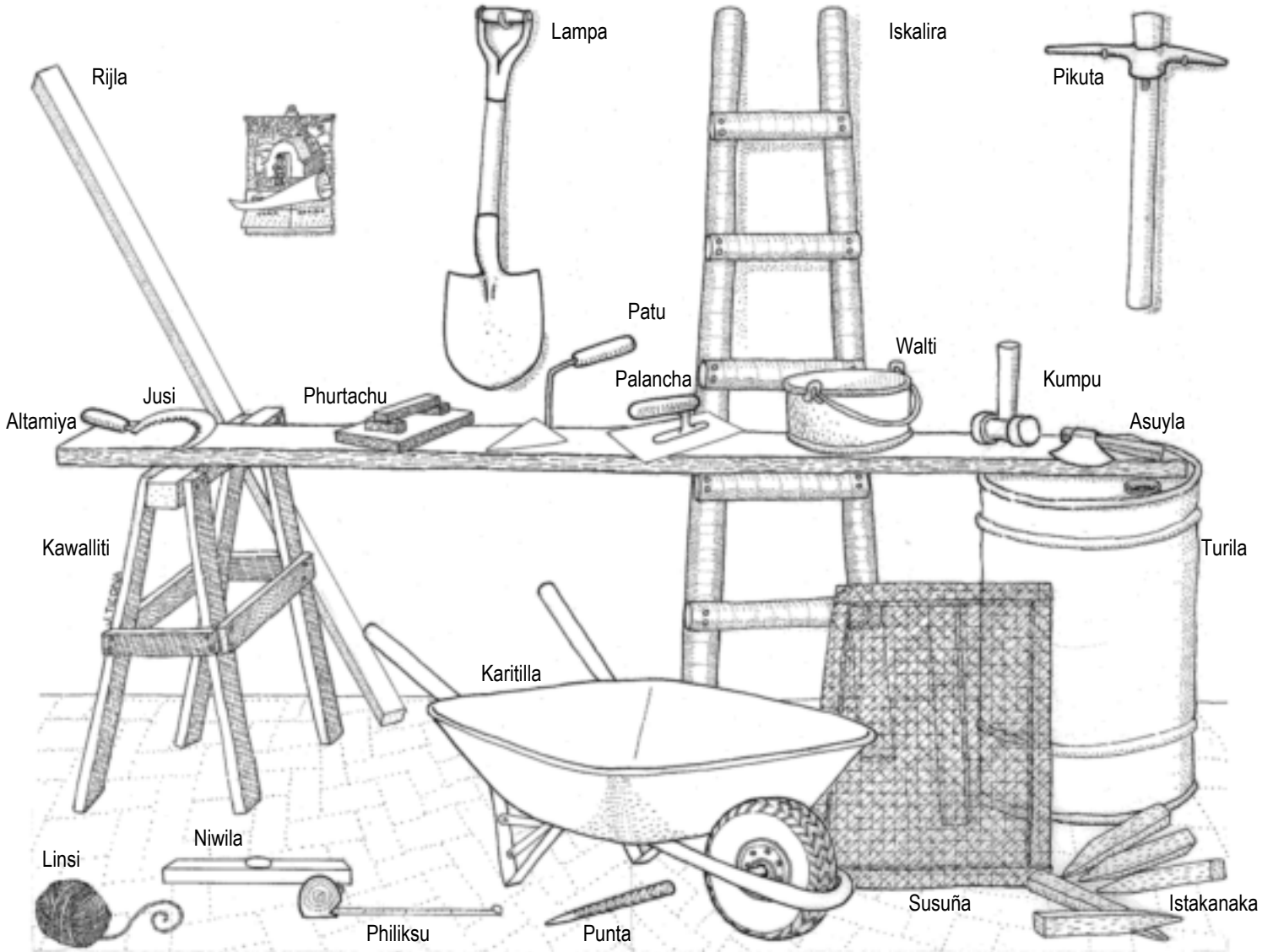




Lajla **3**

**Janira Lak'a Uta
utachkasa
luräwinaka**

Luta luraña jiramintanaka



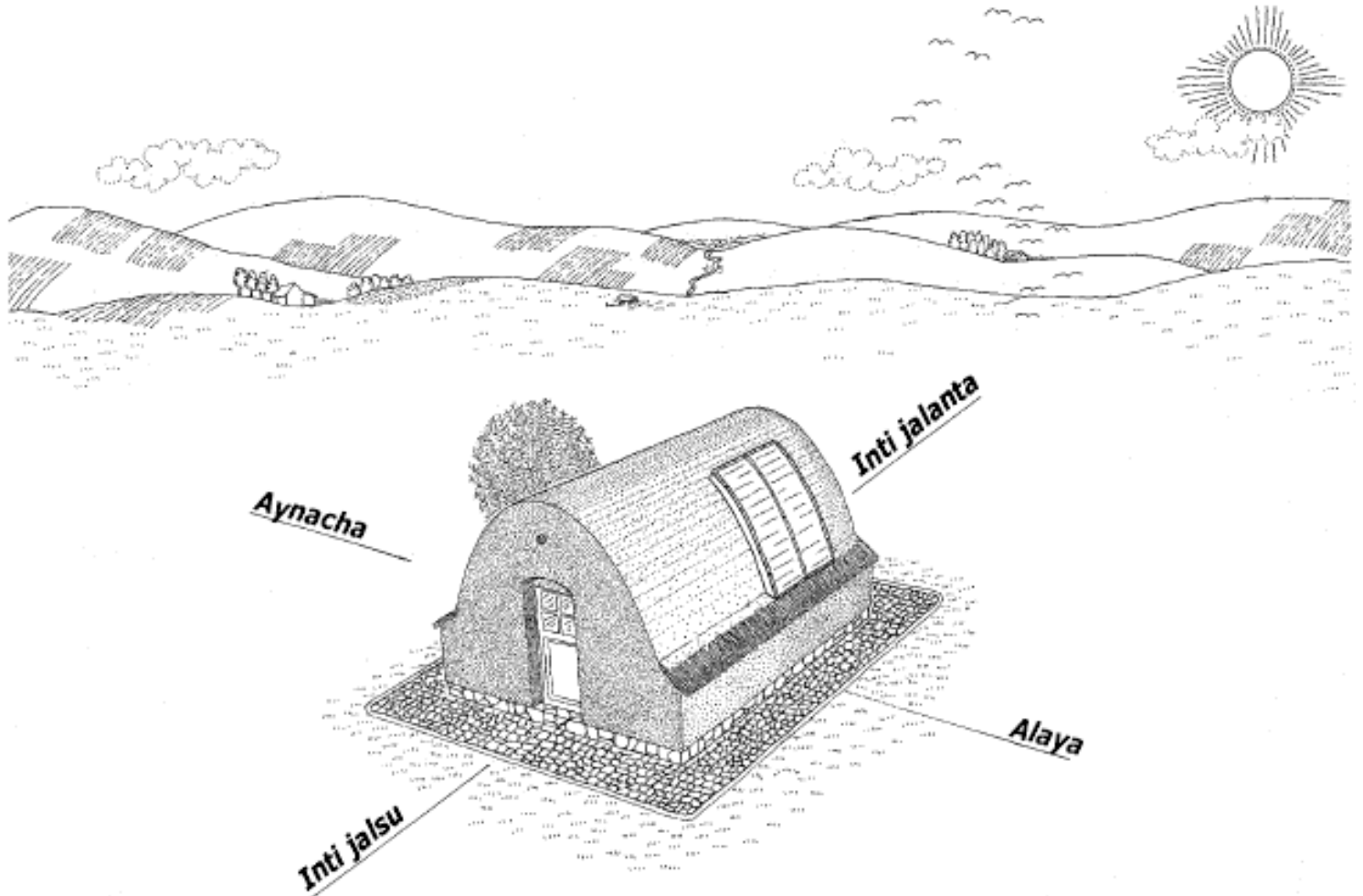
Uraqi chhijllt'äwi

1. Uraqi

Laq'a Uta lurañatakixa mä ch'ullqhi pampa uraquiwa chhijllaña, janiwa k'ink'u chiqanakasa, umana apaña chiqanakasa walikiti.

2. Inti lupi tuqi

Laq'a Utana wiskhalla tuqipaxa inti jalsuta inti jalanta tuqiri amuyatañapawa, ukhamata uka trombe pirqa sataxa alaya tuqiru uñtatäni, ukhamatraki lupi junt'uxa uruxa katuqatäni, arumaxa uta manqha junt'ucharakini.



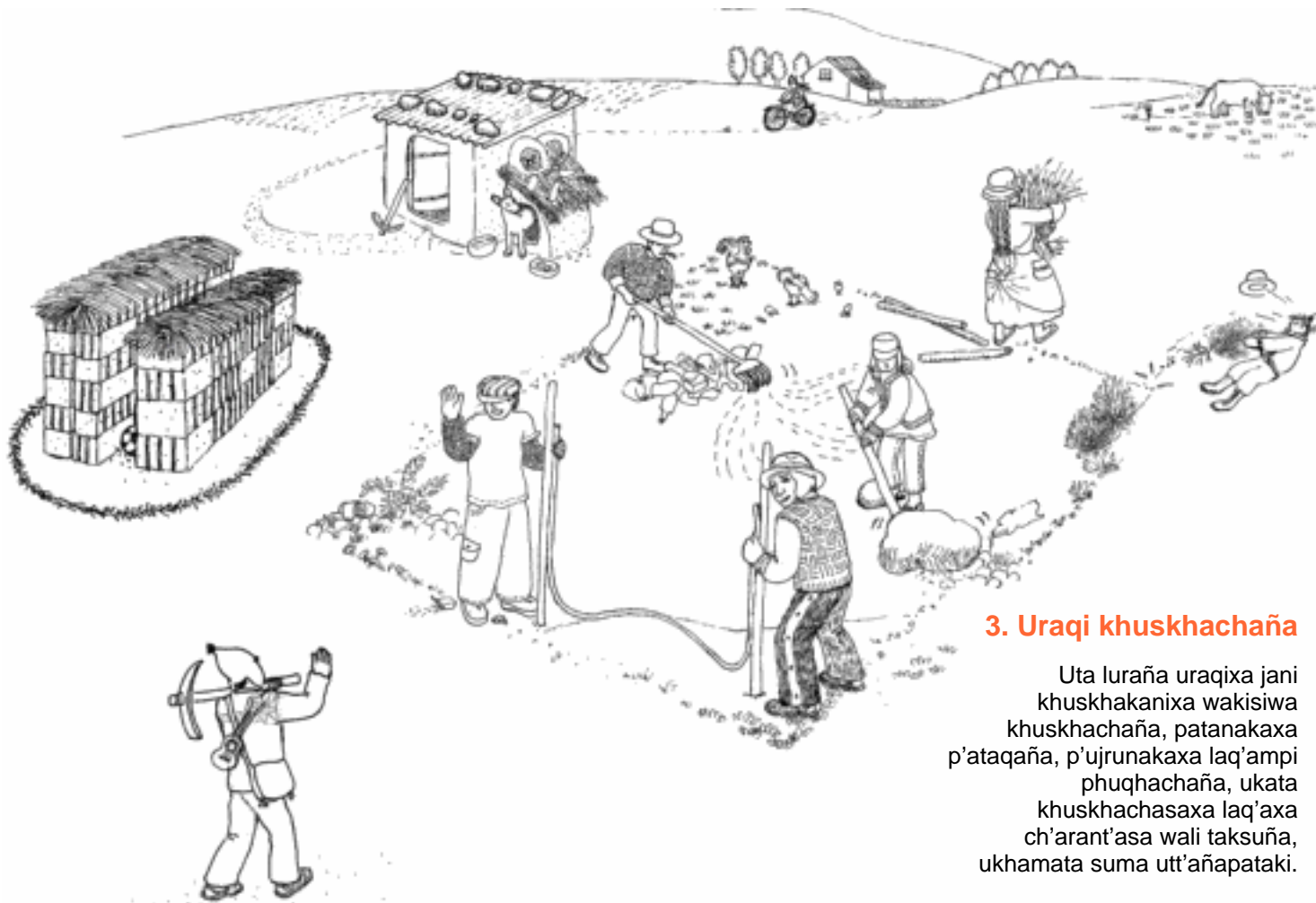
Nayraqata lurañanaka

1. Uta luraña jiramintanaka apthapiwi

Laq'a Uta luratakani uka jak'aruwa uta luraña jiramintanakaxa mä jisk'a imaña utaru apthapiña wakisi.

2. Uraqi q'umachaña

Janirara uta luraña qalltkasaxa Laq'a Uta luraña uraqitxa suma quranakasa qursuña, saphinakasa jik'iraña, t'unanakasa pichsuña.



3. Uraqi khushkachaña

Uta luraña uraqixa jani khushkakanixa wakisiwa khushkachaña, patanakaxa p'ataqaña, p'ujrunakaxa laq'ampi phuqhachaña, ukata khushkachasaxa laq'axa ch'arant'asa wali taksuña, ukhamata suma utt'añapataki.

A photograph of a brick wall. The bricks are light-colored and arranged in a standard running bond pattern. A black arrow is drawn on the image, pointing from the text 'Uta pirqaña' to a specific brick in the fourth row from the top. The brick is located in the second column from the left.

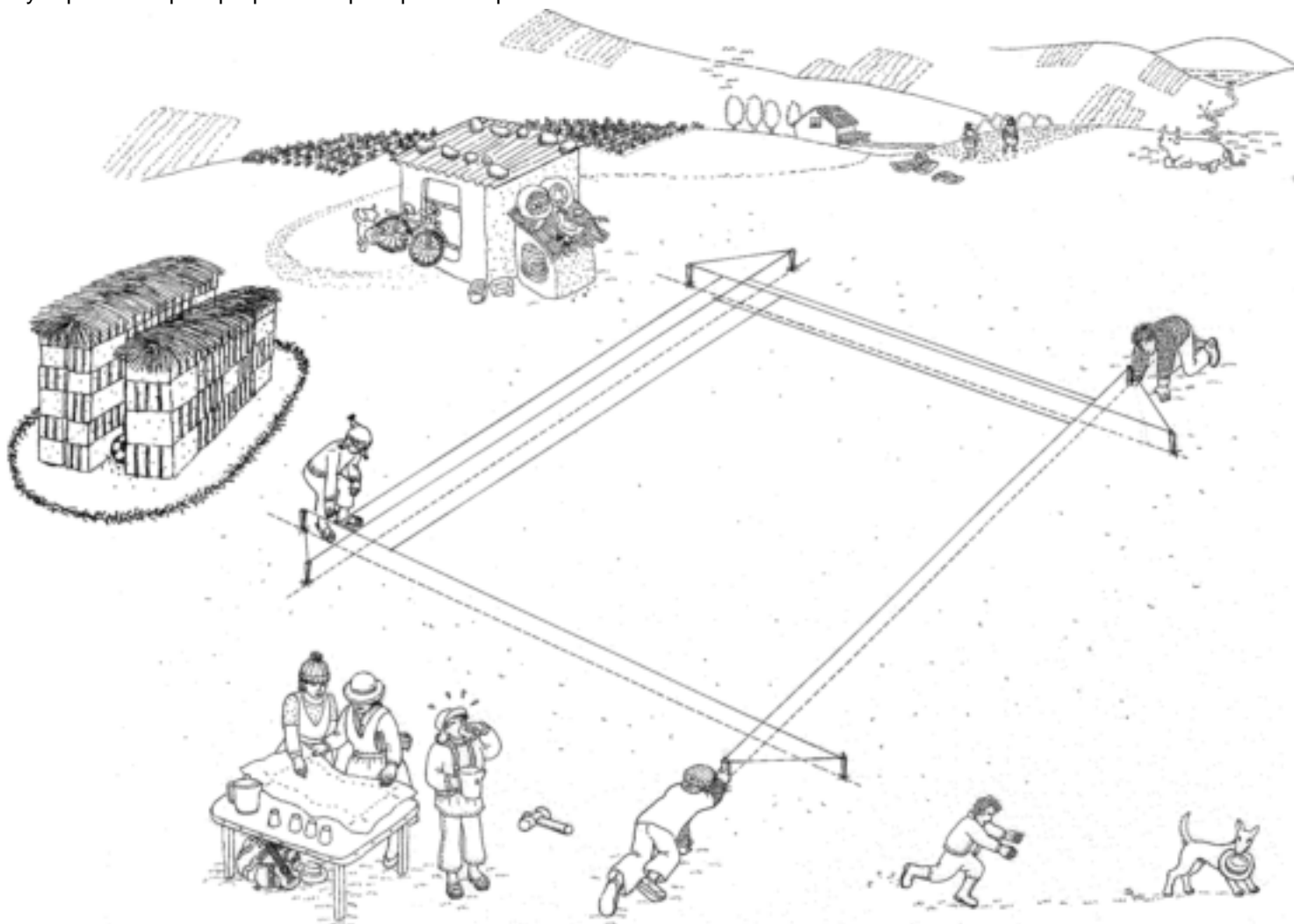
Lajla **4**

Uta pirqaña

Uta qalltäwi

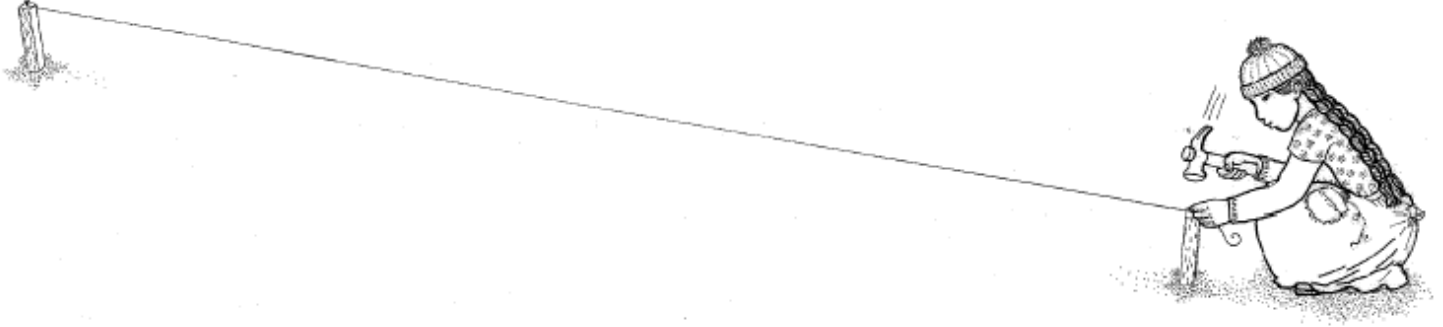
Pampa uraqi patxaruwa jilumpi jiyt'asawa Laq'a Utana simintupataki ukhamaraki pirqapataki chimpuña. Nayraqataxa anqäxa pirqana uñtapa tupusawa qalltaña.

Mä uta simintu suma chimpuñatakixa aka yänakawa wakisi: lawa ch'akurunaka, jilu, pachacha, wincha kuna.

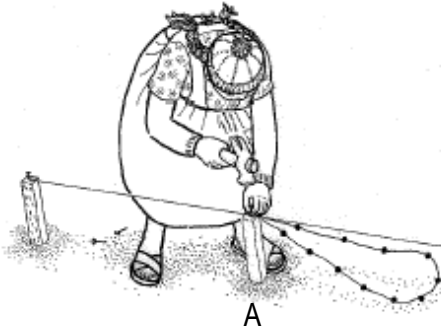


Uta luraña qalltañatakixa wakisiwa:

1. Nayraqataxa pä lawa ch'akuruwa uraqi pamparu liq'intaña, kawksuruya Laq'a Utaxa wiskhallächini ukhamarjama (inti jalsuta – inti jalantaru). Laq'a Utana tupupata sipanxa ch'akuruta ch'akururuxa 2 m jilpacharuwa ch'akurunakaxa liq'intaña.
2. Ukata aka pä lawa ch'akururu mä jiluwa niwilt'asa chint'aña.



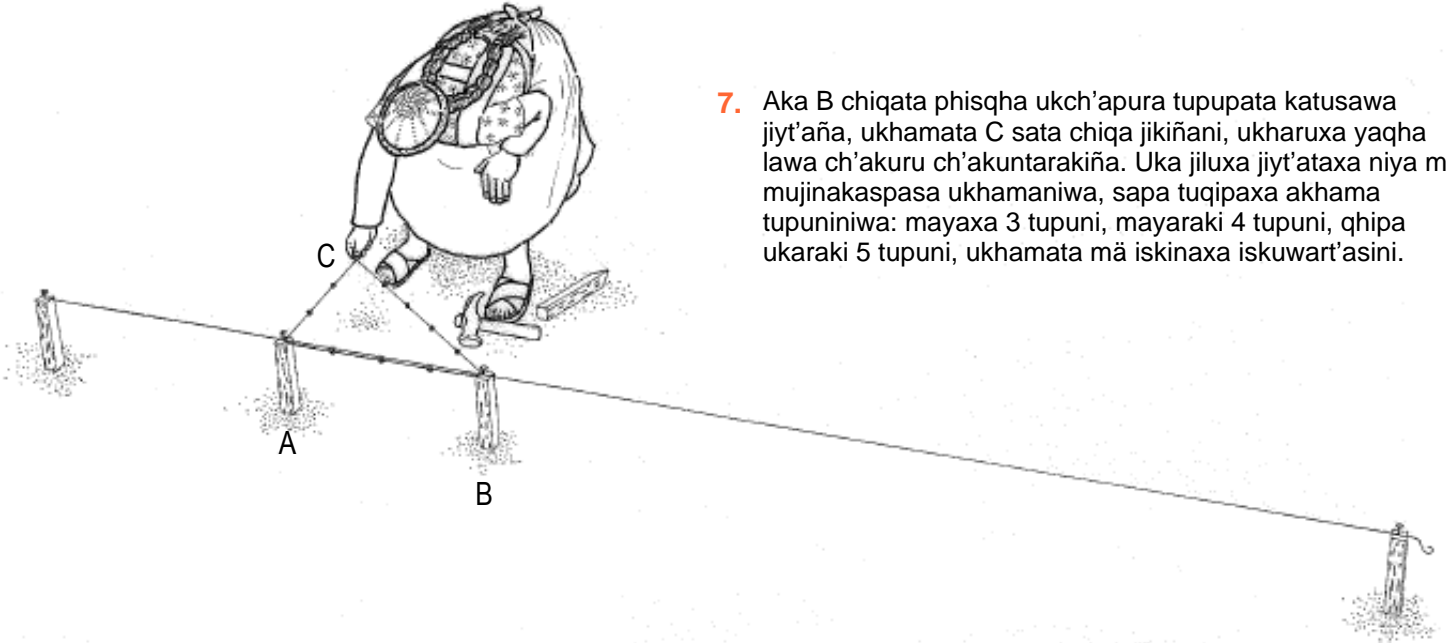
3. Mä ch'akuruta jiluru arktasa mä mitruwa tupt'aña, ukaxa A sata uñt'ataniwa, ukaxa utana mä iskinapaniwa, ukata wakt'ki ukharu mä ch'akurraki chimpüñapataki liq'intaña.
4. Akata iskuwara katjañatakixa, yaqha jiluru (12) tunka payani ukch'apura chinu chinu tupt'aña.
5. Aka 12 ukch'apura tupuni jiluna pä phuntapa katusina A sata ch'akururuwa chint'aña.



6. A sata ch'akuruta pusi ukch'apura tupu jach'a jiluru arktasa jiyt'aña, kawkhuruya wakt'chini ukharu yaqha ch'akurra ki ch'akuntaña, uka chiqaxa B satäniwa.

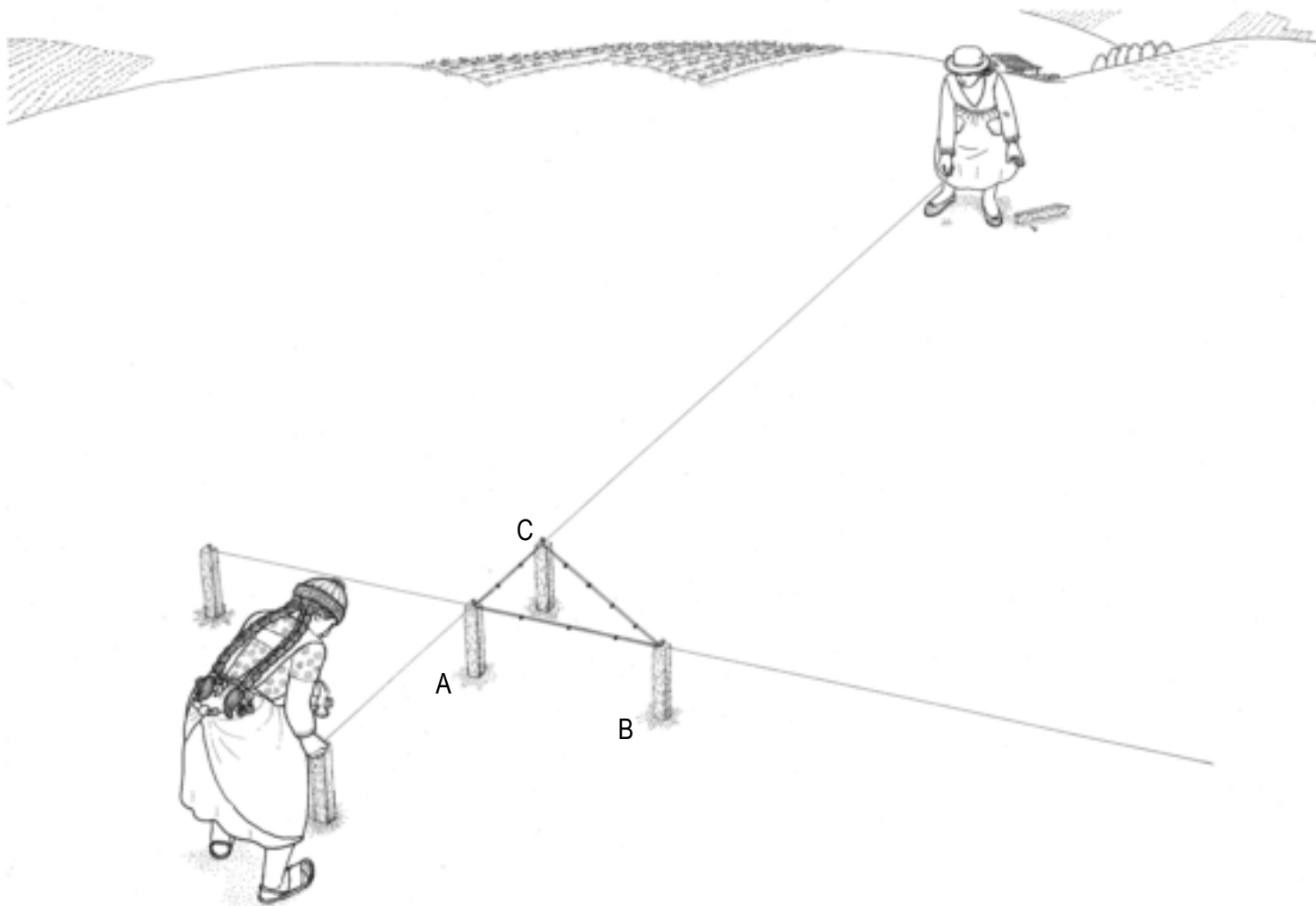


7. Aka B chiqata phisqha ukch'apura tupupata katusawa jiyt'aña, ukhamata C sata chiqä jikiñani, ukharuxa yaqha lawa ch'akuru ch'akuntarakiña. Uka jiluxa jiyt'ataxa niya mä mujinakaspasa ukhamaniwa, sapa tuqipaxa akhama tupuniniwa: mayaxa 3 tupuni, mayaraki 4 tupuni, qhipa ukaraki 5 tupuni, ukhamata mä iskinaxa iskuwart'asini.



8. A chiqäma ukhamaraki C chiqäma pasayasa yaqha jilu jiyt'aña, ukaxa palanu uñxatataxa, Laq'a Utana jisk'a tupupata mä juk'ampi jach'añapawa, ukata uka jiluxa ch'akurunakaruwa suma chint'aña.
9. A chiqata jilu jiyt'asa Laq'a Utana anqa pirqanakapataki marksuña. Jach'a pirqaxa inti jalsuta inti jalanti tuqiru jiyt'atañapawa.

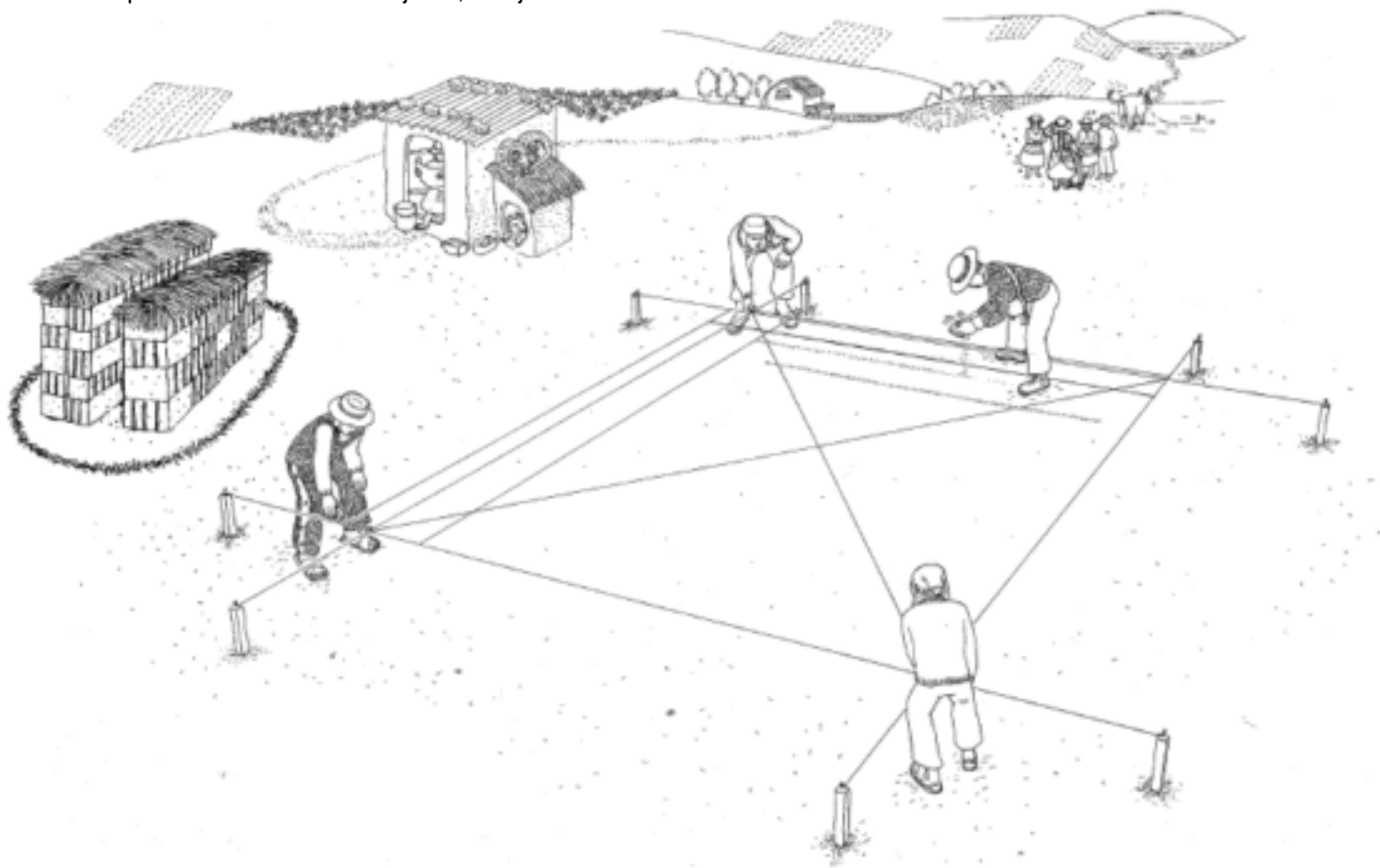
10. Suma marksusa tukuyasaxa aka A,B,C sata ch'akurunakaxa aptataxarakispawa.



11. Uka jiluru markhatanakaxa Laq'a Utana pä iskinapawa, mayni iskinanaka iskuwart'añatakixa uka kikparakiwa lurañaaxa wakisi. Ukhamata taqpacha iskinanakaxa utjxani, ukhamaraki pirqa anqa uñtaxa pirqañatakisa markhatäxani.
12. Uta simintutaki jiyt'atama walikiti janicha uka yatiñatakixa wakisirakiwa akhama luraña: iskinata iskinaruwa jiluxa jiyt'aña, maysa iskinanakaxa ukhamaraki, ukata uka paypacha jiluxa jaqthapitaxa kikpa tupuniñapawa.
13. Pirqataki jiyt'atäki uka jiluru uñtata yaqha jilunakawa purapaparu jiyt'añaraki, ukanakaxa palanuna qawqha thuruñapächi simintuxa ukhamarjama, uka jilunakaxa

suma jiyt'asaxa chint'añarakiwa.

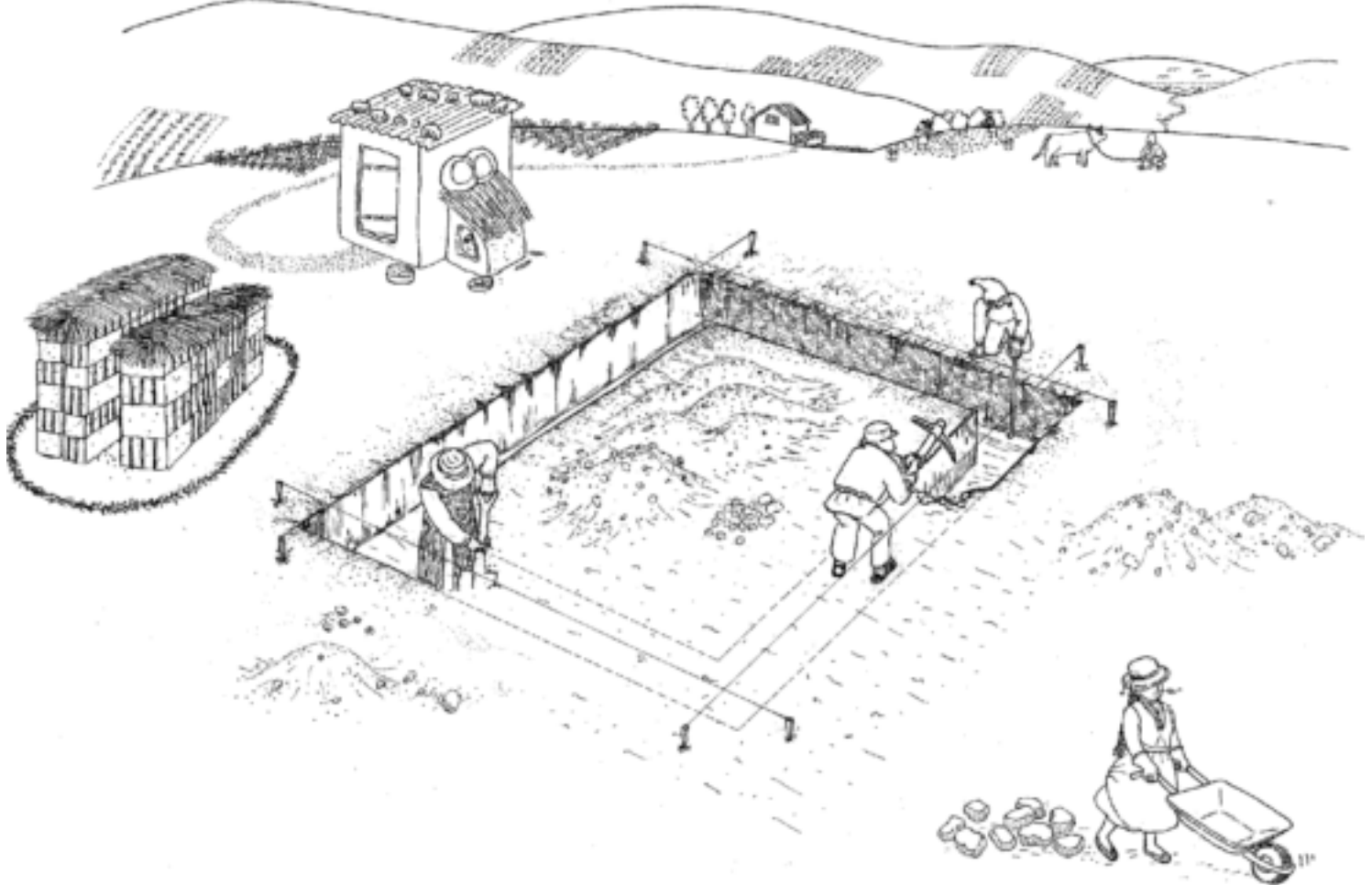
14. Ukata uraqi pamparu Laq'a Utana pirqapaxa qawqha thurüchiniya ukhamarjama simintutakiwa pachachampi taqpacha jiluru markhsuña.
15. Jilunaka chinuña ch'akurunakaxa mä mitru taqi tuqiru jilpachankañapawa, simintusa pata simintusa allsutäkani ukhaxa ukankaskañapakiwa.



Uraqi allsüwi

Sanjanakawa, simintu warantañatakiwa allsuña, manqharuxa niya 40 cm tupuniñapawa, thuru tuqiruraki niya 60 cm. tupuniñaparakikiwa. Akaxa juk'ampi manqhasa, aliqa patakisa uraqitjamarakiwa.

Lampampi pikumpiwa allsuñatakixa wakisi.



Allsuñatakixa wakisiwa:

1. Nayraqata jiyt'ata jilunakaxa apthapxañawa.
2. Uraqina markhatarjamawa simintutakixa sanjanakaxa allsuña, manqharuxa niya 40 cm. tupuniwa allsuña
3. uraqi allsutaxa manqharusa alayarusa khuskhakiñapawa.

Janiwa wakiskiti:

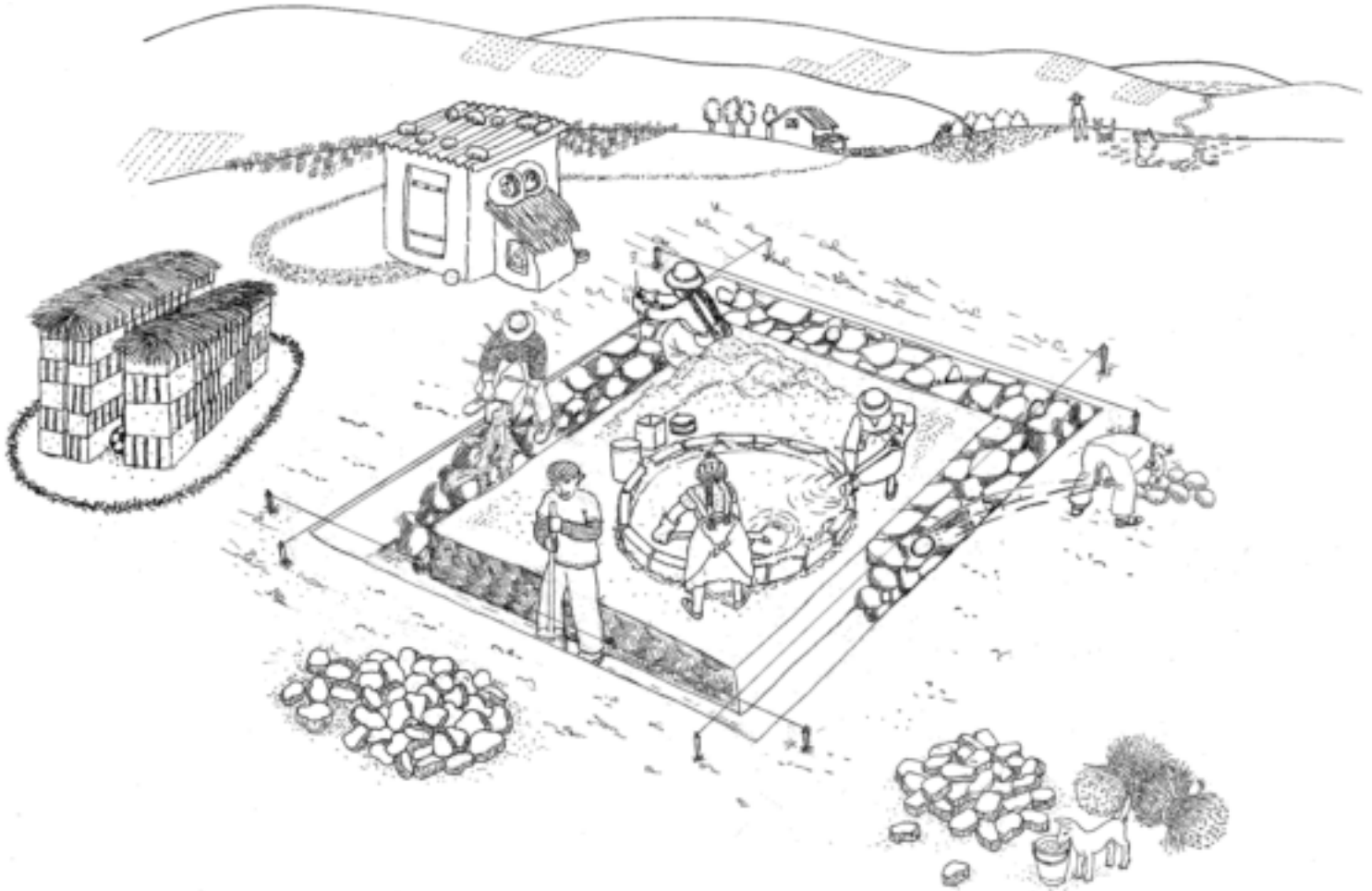
- Umampi sanjanakaru irpantaña, ukaxa uraqi phisjtayi.
- Allsuta laq'axa janiwa sanjanaka sinti jak'aru lampsuñati, pachpa sanjaruwa laq'axa kutintaspá, janirakiwa jank'a luraykistaspati.



Simintunaka

Simintuxa uraqi allsuta manqharu qalampi suk'antatañapawa, ukxaruwa pirqaxa sarxatañapaxa.

Simintuxa jach'pacha qalanakampi ñiq'impï luratañapawa.



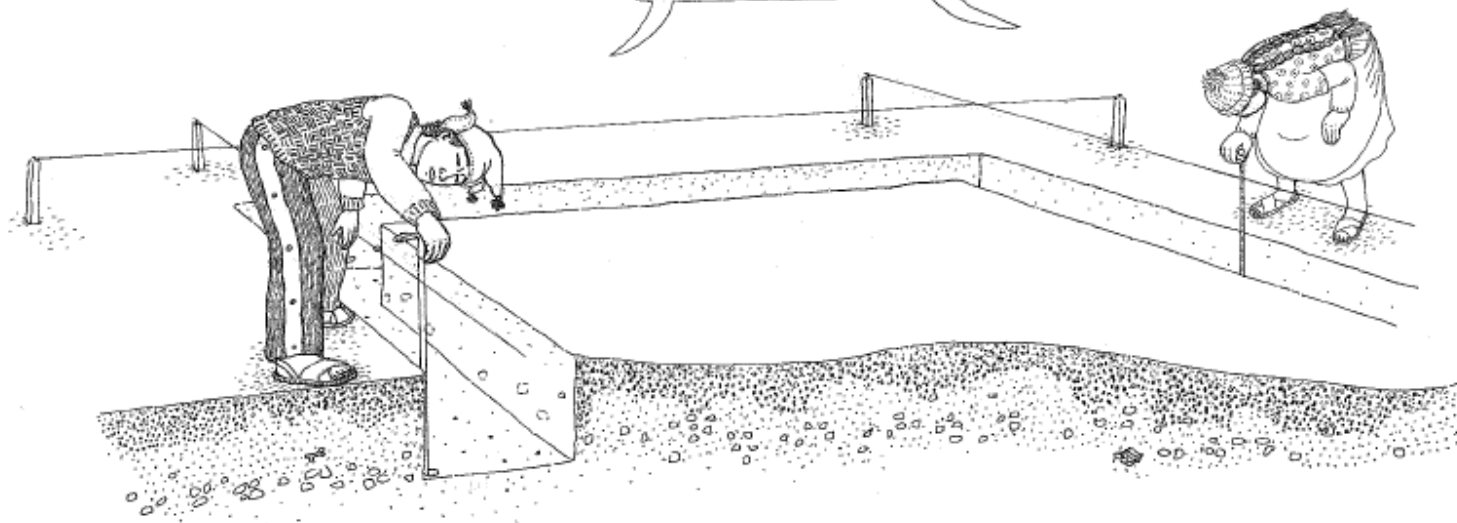
Simintu warantañatakixa wakisiwa:

1. Wasitata jilunaka jiyt'aña, ukampixa amuyañaniwa:

- Pulumarampi waytasa sanjaxe khuskha thuruti janicha.
- winchampi tupt'asa manqharuxa mä khuskha allsutakiti janicha, ukatakixa taqi tuqirakiwa tupt'añaxa wakisi.

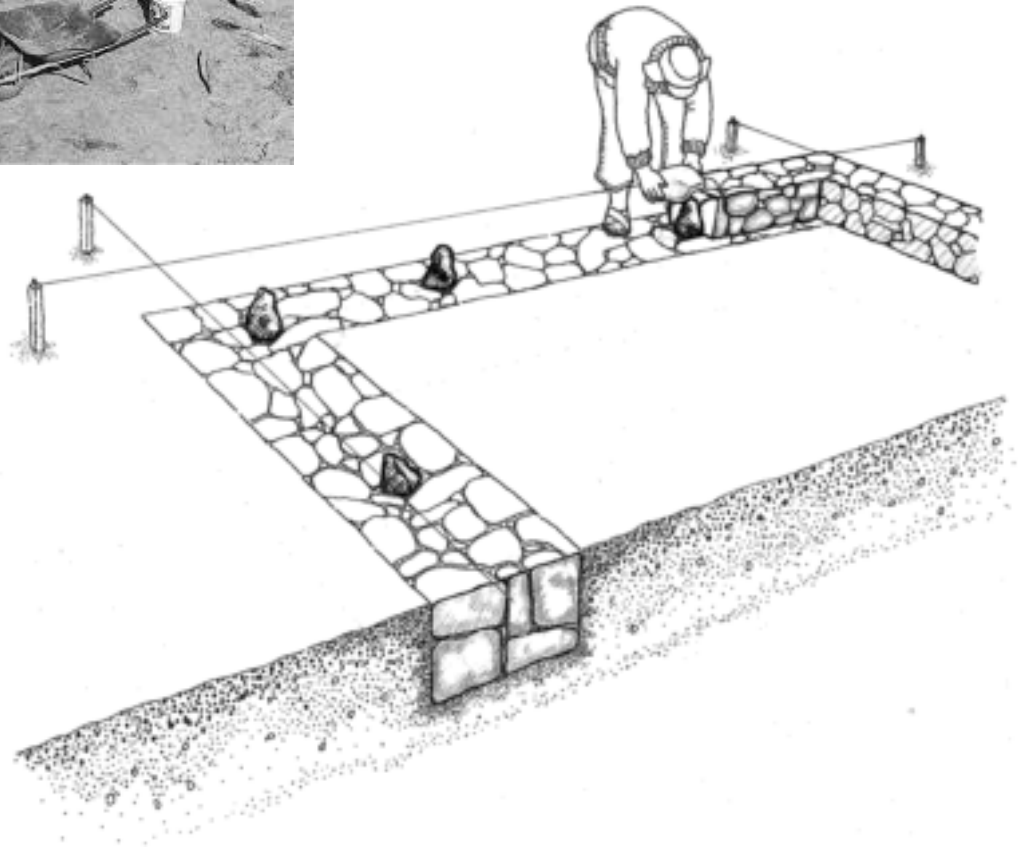


Jiluta manqharuxa kikkpaki
taqi tuqirusa tupt'aski





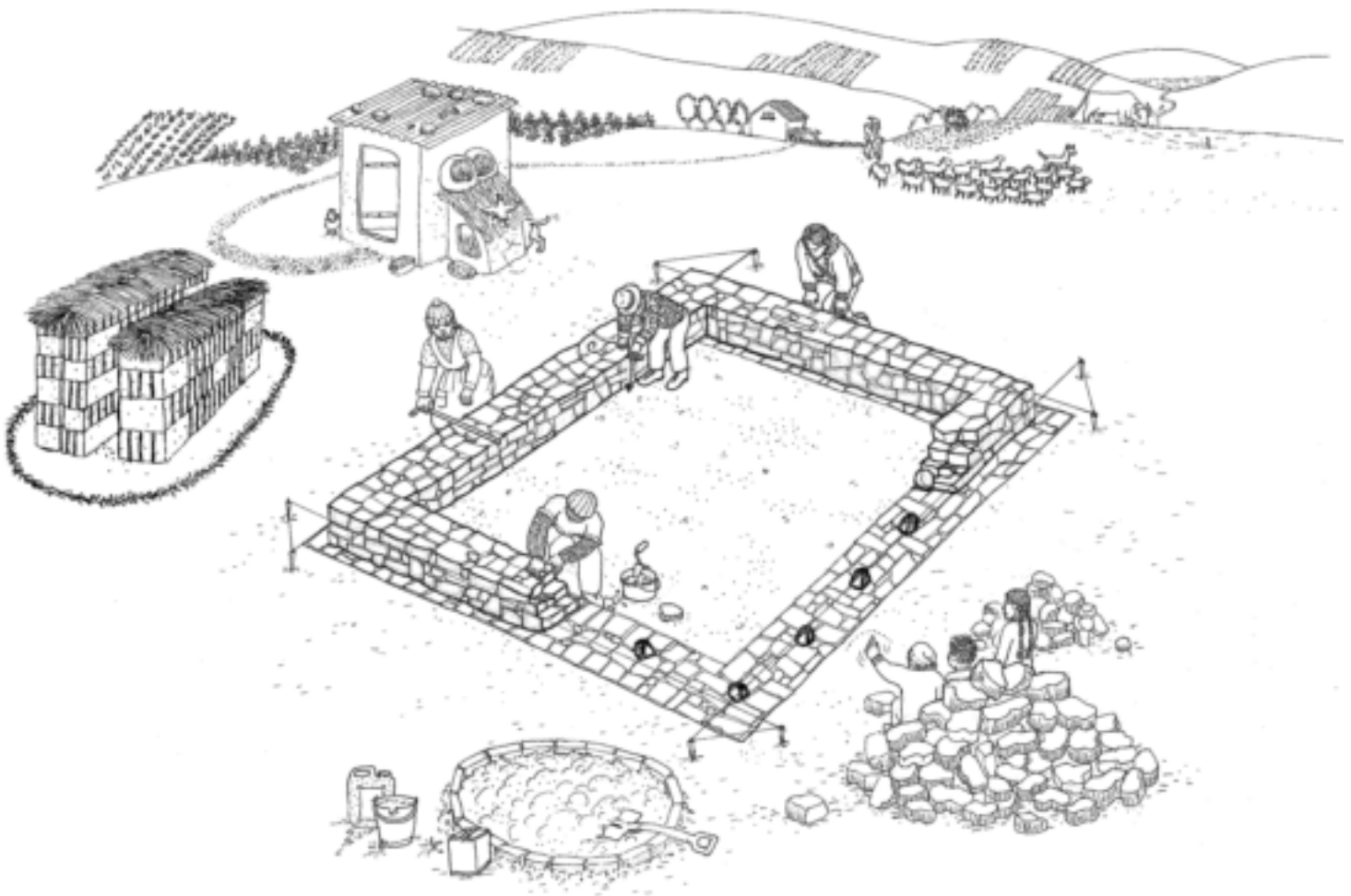
2. Sanjanakanxa qalanakaxa jiwaki patxaru patxaru suk'antaña, juk'ampi jach'pachanakaxa iskinanakampiru thiyanakampiru, suma utt'ayasa itnuqaña, p'iyanakaxa ñiq'impawa phuqhantaña. Qalanakaxa ch'arantasawa irantaña jani ukaxa niq'i uma q'ala wañsuyaspa.
3. Simintu warantaña tukuyasaxa sapa mitruru mä tantiypacha qalawa simintuta jilsuta jaytaña, ukaxa patxa simintumpi suma k'anthapiñatakiwa.



Patxa simintunaka

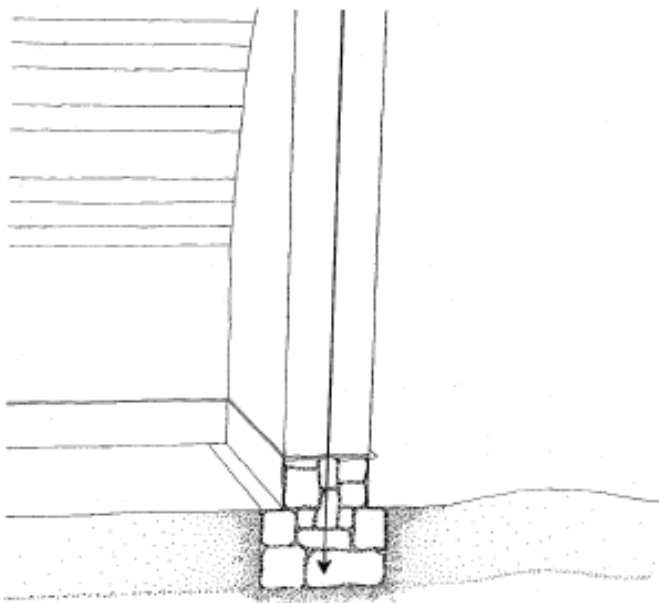
Aka pirqaxa simintu warantata patxankarakiwa, ukxaruwa pirqaxa sarxati, ukata aruwi pirqana thuruparjama luratäxiwa. Jani umaxa pirqa ch'arant'añapatakiwa.

Tantiyu qalanakampi ñiq'impï luratawa.

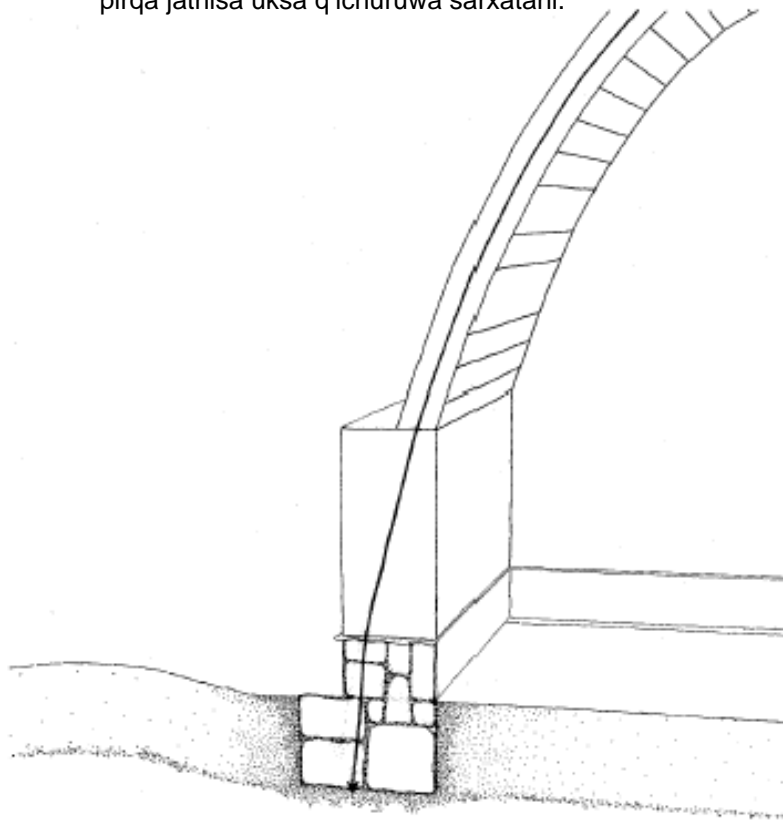


Patxa simintu pirqaxa siminturuxa jathi katuqatatjama mayja mayjaraki sarxati:

- Nayraxa pirqasa qhipaxa pirqasa simintu chika taypiparuwa takxatañaapa,, paypacha thiyaru mä 10 cm. tupt'asawa jaytaña, pirqa jathixa alayata aynacharuwa sayxatani.



- Ch'iqä pirqatakisa kupi pirqatakisa patxa simintuxa uta manqha thiya siminturuwa takxatani, anqa tuqiruxa niya 20 cm. tupt'atawa jaytaña., kunattixa pirqa jathixa k'umphu pirqa jathixa ukxa q'ichuruwa sarxatani.



Patxa simintu pirqatñatakixa wakisiwa:

1. Patxa simintunakaxa uta palanurjama luratañapatakixa wakisiwa wasitata jilunaka lawa ch'akurunakaru jiyt'aña, ukhamata pirqanakasa wakisiriparjama pirqatañapataki.
2. Patxa simintuxa pulumarampi niwilampi jilunakarjama pirqatañapawa. Qalanakaxa jiwaki patxaru patxaru suk'antatañapawa, juk'ampi jach'pachanakaxa iskinanakampiru thiyanakampiru, suma utt'ayasa pirqañawa, p'iyanakaxa ñiq'impwiwa phuqhantaña. Qalanakaxa ch'arantasawa irantaña jani ukaxa niq'i uma q'ala wañsuyaspa.

Patxa simintuxa mayja luratarakispawa, ukatakixa palanuna tuputanakaparjama tawlanakampi kajunt'asaxa lurañarakiwa.



Umata jark'aqäwi

Uma jark'aqäwixa patxa simintxaru uchañawa, Ukaxa jani umaxa pirqaru ch'arant'añapataki lurañawa.

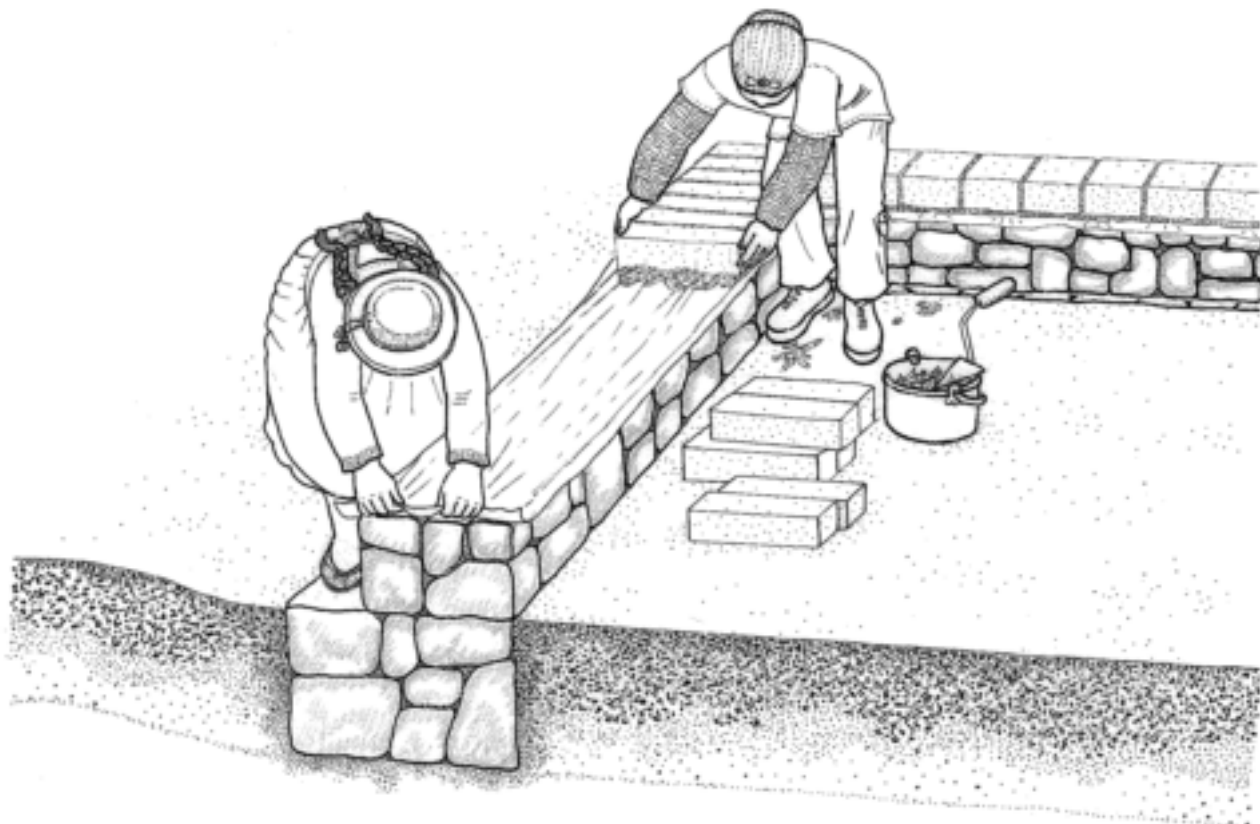
Naylunatawa.

Uma jark'aqäwi lurañatakixa wakisiwa:

Patxa simintu patxaru naylunawa uchaña, pirqata purapa thiyaru 5 cm tupuwa jiläñapa.

Umata jark'aqäwixa yaqha kasta luratarakispawa, akhama:

- q'añu asiytimi ñuxsuña.
- alkitaranampixa, kirusinampi umatatayasa, ñuxsuraksnawa.
- cartón asfáltico sata kartuna ucharaksnawa.



Pirqanaka

Pirqanakaxa aruwinakampi ñiq'impï pirqatawa, Laq'a Uta manqha qawqhch'asa uka suma qhananchi.

40x20x10 tupuni aruwinakampi ñiq'impï pirqañawa.

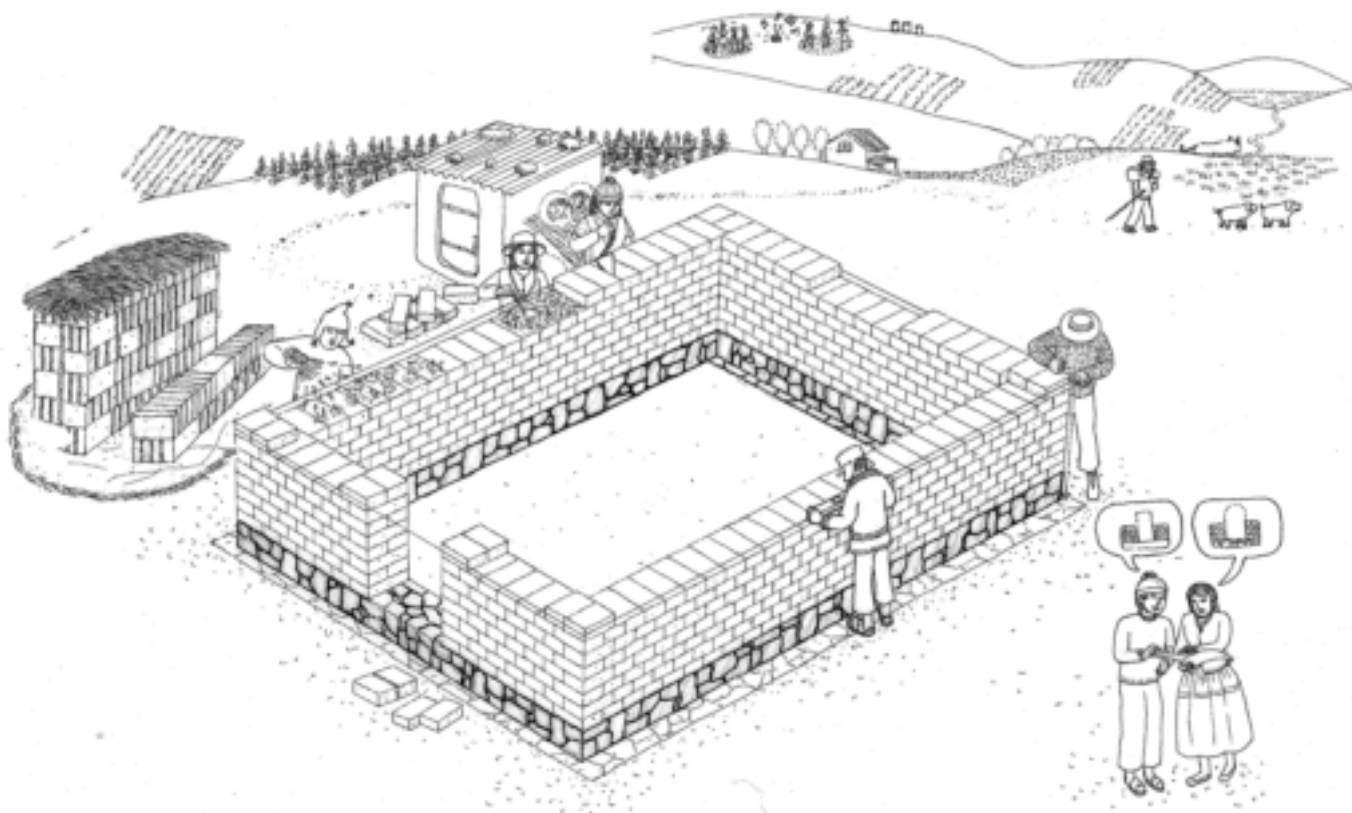
Ñiq'ixa pirqañatakixa akanakampiwa wakichaña:

- susuta laq'a
- khuchhuta jichhu

Sapuruxa mä mitruwa alayaru pirqaña, ukhamata jani ñiq'i juntanaka janiraru wañt'kipana jipt'aykaniti.

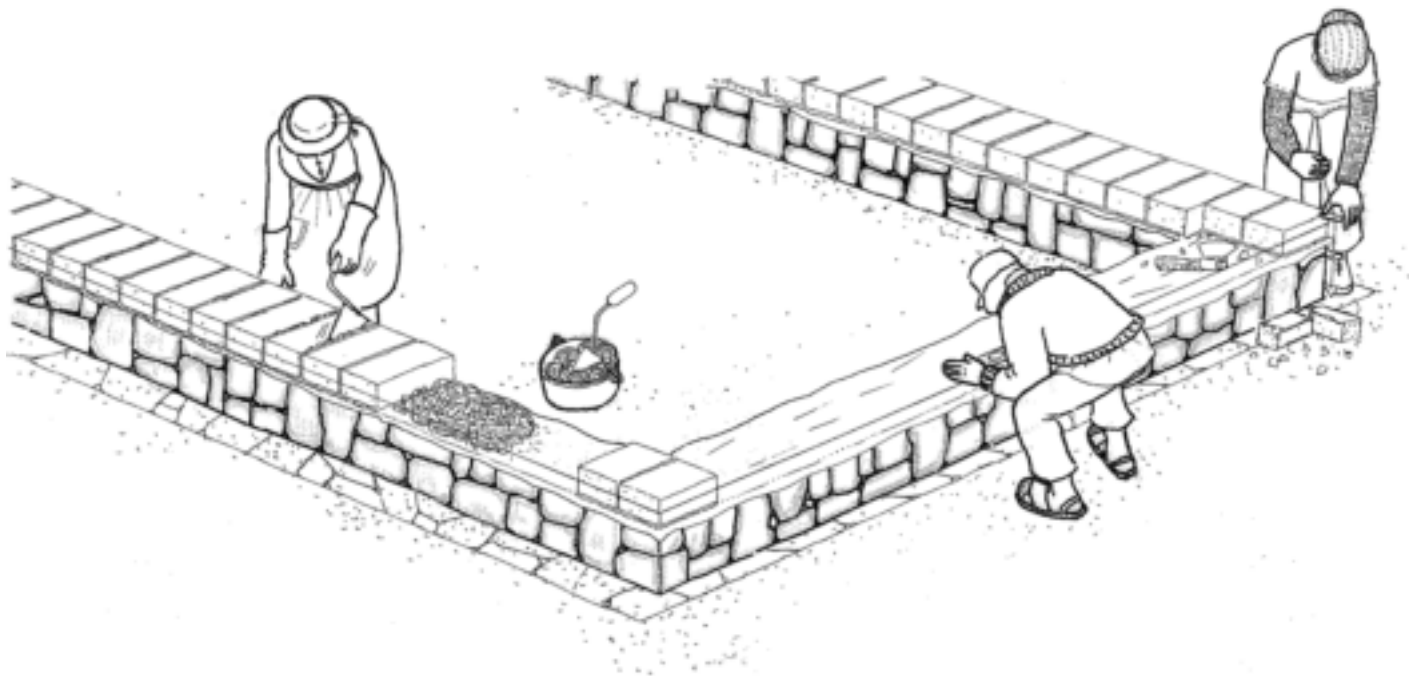
Aruwinakaxa pulumararjamawa suma k'anjata chiqaki pirqaña.

Ñiq'i juntanakaxa iranarusa alayarusa 1 cm thurpacha ñiq'iniñapawa.



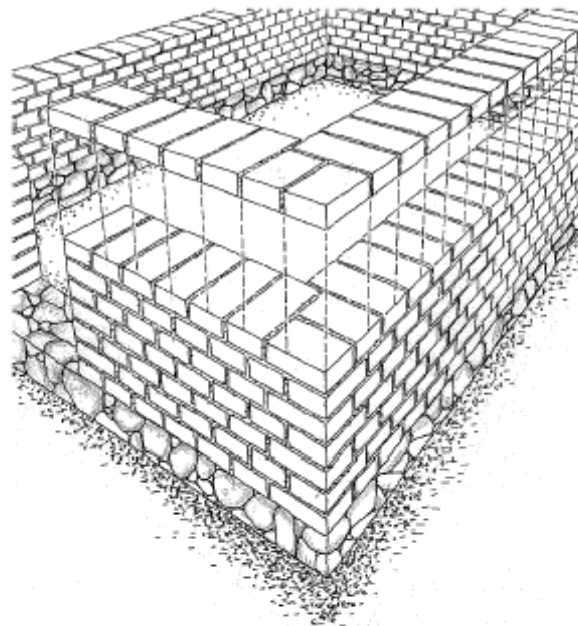
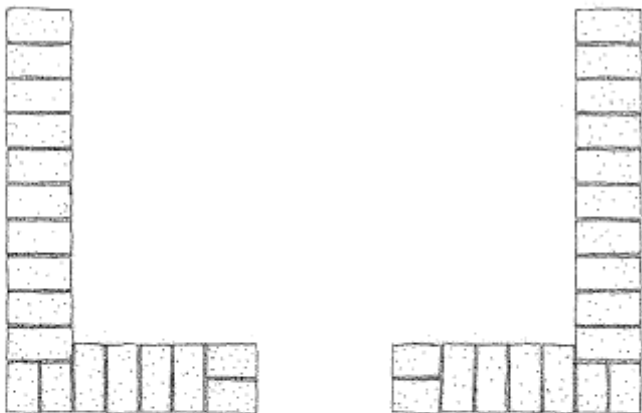
Pirqanaka waytañatakixa wakisiwa:

1. Maystranakawa suma niwilt'asa pulumarampi waytasa kuna sapa iskinaru apsusiña, maystratakixa aruwixa 1 cm. ñiq'xiruwa takxatayaña. Aka aruwinakaruwa jiluxa chint'aña, aruwinakaxa chiqaki sarañapataki. Ukaruwa aruwinakampi suma siqxatxaña, ñiq'ixa sapa kimsa aruwitakiwa uskuña, ukata juntanakaruxa ñiq'impirakiwa phuqhantaña.
2. Pirqa waytañatakixa ukhamawa sapa kuti luraña, suk'xatata aruwina pata ajanupa umampi ch'arant'asa ch'arant'asa, ukhamata juk'ampi suma katxasiñapatakisa, ñiq'i uma jani wañsuyañatakisa.



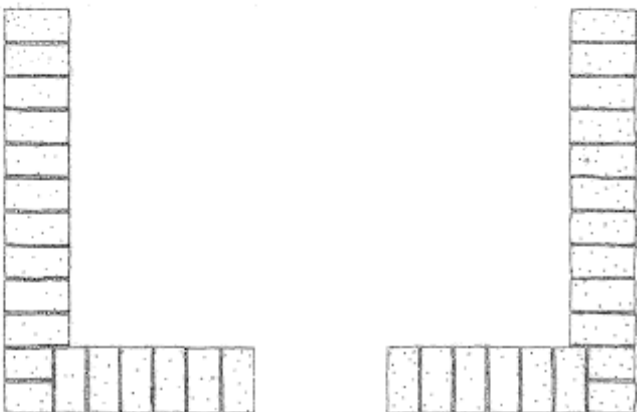
3. Pirqana aruwinaka k'anjañatakixa aruwiwa maysatjama maysatjama itxataña:

a) Iskinanakaxa pä $\frac{3}{4}$ khuchhuqata aruwiwa uchaña 30x20x10 cm tupuni, ukata mayakipata siqinakana uka aruwinakaxa pirqxataña.

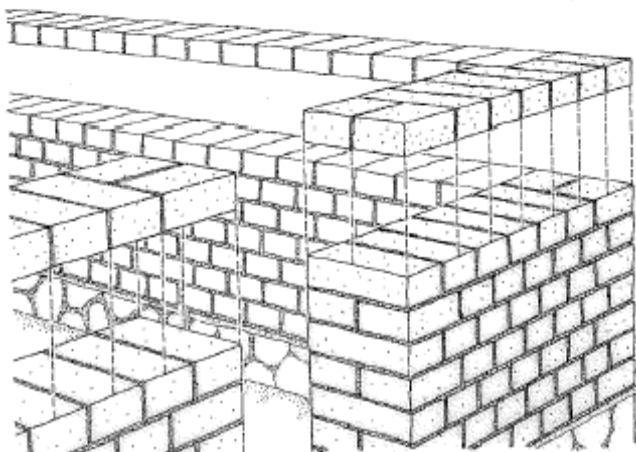


b) Punku iskinanakansa uta t'uxu iskinanakansa:

• Mä siqinxaxa pä $\frac{3}{4}$ khuchhuqata aruwiwa uchaña 30x20x10 cm tupuni, aruwina sarapata mayjt'ataruwa uchaña.



• Qhipa siqinxaxa aruwinakaxa ukch'pachanakawa uchaña 40x20x10 cm tupuni, aruwinakaxa saraparjamarurakiwa itxataña.



Umralanaka

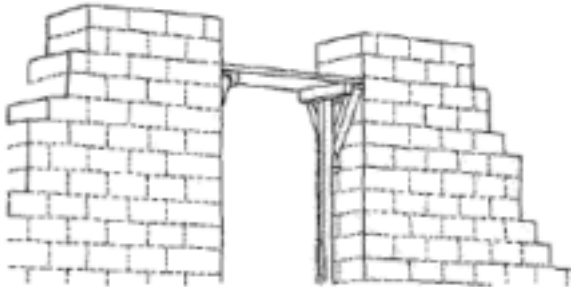
Ukaxa nayrāxa pirqana punkutaki qhipāxa pirqana t'uxutaki askiwa.

Ukaxa (40×20×10) tupuni aruwinakampi ñiq'impi luratañapawa.

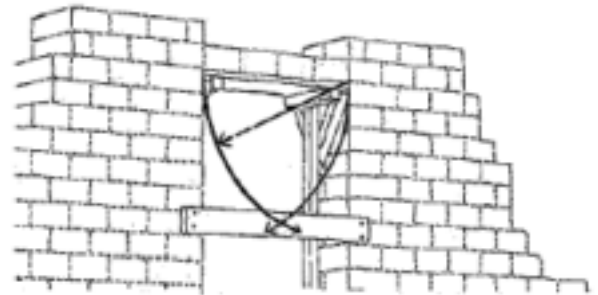


Umralanaka uskuñatakixa wakisiwa:

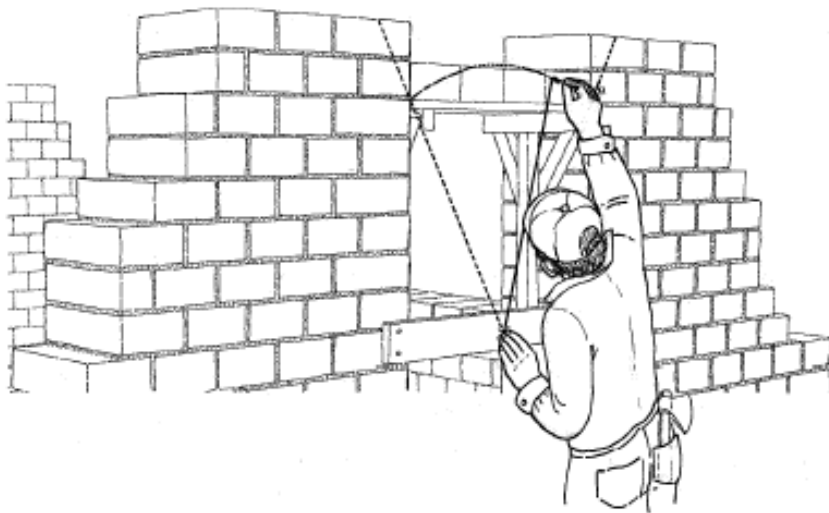
1. Pirqanaka pirqasaxa punkutakisa t'uxutakisa jaytañawa, altuta pä siqi aruwiwa jilakipayaña.
Ukata mä lawaru puntalanakampi tikiljayasawa wakichaña, jani ukaxa uka ch'usäwjaru aruwimpiwa pirqantaña, kawkhakamaya punkusa t'uxusa wakt'chi ukhakama.



2. Ukata umrala qalltaña mä iskinata katusaxa mä chika muyuwa luraña, maysa iskinatxa uka kikparakiwa yaqha chika muyuxa luraña, ukata kawkhanti uka pä chika muyuxa kurusjasipxixa ukhawa chimpt'aña.
3. Aruwimpiwa tawla pataru pirqxataña, umrala suma yäniñapataki.



4. Uka pä chika muyuxa kurusjasipxixa uka chiqaxa, akanaka chimpuñatakiwa wakisi:
- umralana chika muyupa chimpuñataki, ukaxa mä pitampiwa jiyt'aña, mä phuntaxa uka kurusjataruwa uchaña mayaraki kawkhanti punku umrala qalltkani ukharuraki, ukata muytayasawa suma chimp't'aña.
 - sapa iskinana umralaxa jiwaki alt'añapa.



5. Aruwinakaxa umralana muytaparjamawa k'uthaqaña, ukhamaraki uka pä siqi pirqaxa umrala pirqxatañatakixa k'uthaqañarakiwa.



6. Uka muytampi uka alt'awimpi jikisaxa ñiq'i uchasa aruwiwa itxataña, juntanaka jisk'a qalanakampi chillptasa.

Umralaxa chika taypiruwa tukuyaña, qhipqhipa aruwixa k'uthaqasa k'uthaqasa phuqhatakiwa uchaña.

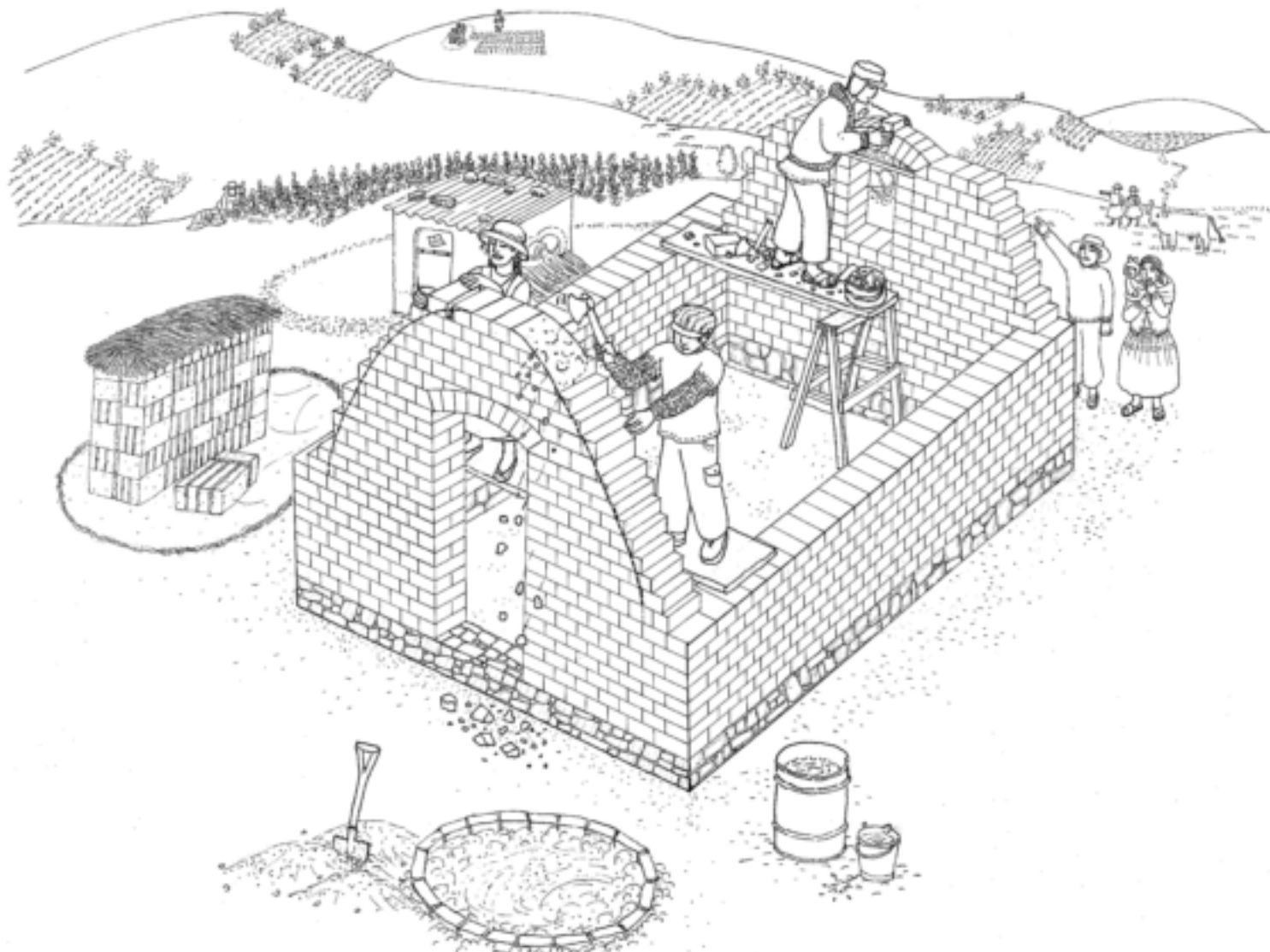
7. Tawlasa, puntalasa, jani ukaxa aruwi pirqkatatasa aptxañawa, janira ñiq'i wañt'kipana.



Catenario pirqa

Laq'a Utana muyta uñtani pirqanakapawa.

Uka lurañatakixa akhama tupuni 40x20x10 cm aruwinakampi ñiq'impawa munasi.



Catenario pirqa lurañatakixa wakisiwa:

1. Aka pirqanakaxa palanuna luratarjamawa luraña, punku umralanaksa t'uxu umralanaksa amuyasa.
2. Catenario pirqa lurañatakixa nayraqataxa yaqha pirqana uka kikpa luraña, akhama:
 - a) Aka yaqha pirqaru mä jiluwa pä chiqaru liq'katasa warkuktayaña. Jilu jiyt'atata mä chiqata yaqha chiqaruxa 3 mitru tupuwa utjañapa.
 - b) Aka jiluna chikapa katusaxa (1.50 m) aynacha tuqiruwä pulumarampi uka catenariaxa chimp'taña, niya (1.80 m) tupuniru.
 - c) Mä ch'arana phalana mä punthapawa jiluna qalltaparu katt'ayaña, ukata maysa punthampirakiwa uka catenaria satana chimpuparuwa yant'asa yant'asa wakt'ayaña (1.80 m) tupuparjama, ukxaruxa uka kimsa chiqaxa suma wakt'anixa suma katt'ayataxarakiniwa.
 - d) Uka 3 mitruni jilxa pä chikataruwa jaljaña, uka chikatanaka yaqha chikatanakarurakiwa jaljaña, 16 chiqanakaru jaljañkama. Sapa chiqaxa suma

chimp'tataxä utana kikpa lurañatakixa askini.

- e) Aka jalja chimpunakata warkuqtata ch'arana phalaru kurusjayañkama pulumarampiwa waytaña, sapa chiqana tupupa suma qillqaqasa.
3. Laq'a Utana, uka muyucht'ata pirqapana kawkhanti catenaria pirqaxa qalltki ukaru jiluwa jiyt'aña, uka catenaria pirqaxa kimsa mitru tupuniñapawa.
4. Aka kimsa mitruni tupu chikatata chikatata 16 ukch'apura chiqanakaruwa jaljaña, sapa mayaxa suma chimp'taña.
5. Aka jalja chimpunakata alayarurakiwa pachpa pirqana markhsuña, kunjamatixa catenariana luratäkana ukhama.
6. Chimp'uta chiqanaka suma mayacht'aña, catenariaxa suma uñstañapataki.
7. Ukata ukhamarjamawa aruwinakaxa k'uthaqañasa jani ukaxa phuqhachañasa.



Karina

Ukaxa jisk'a aruwinakampiwa siqxataña, alayaruxa 15 cm tupuni, thurutxa 25 cm tupuniraki. Ukaxa Laq'a Utana uka muyta pirqaparuxa pirqaxataña. Ukxaruwa k'umphuxa utachxatatani.

Ukaxa 25×15×6 cm tupuni jisk'a aruwinakampi ñiq'impixawa pirqaxataña.

Karina lurañatakixa wakisiwa:

1. Nayraqataxa paypacha thiyaru pulumarampi waytasa ñiq'impixawa kuna mä jisk'a aruwi suma utt'ayaña, ukata ukhama 7 jisk'a aruwiwa ukch'apura jaypacharu karina

maystrataki itxataña.

2. Uka 9 jisk'a aruwinakaxa mä jilumpixawa alaytuqita jiyt'aña, ukaxa karina mä khushhaki sarañapatakiwa.
3. Karina lurañatakixa ñiq'impixawa jisk'a aruwinakaxa suma utt'ayaña, paypacha tuqita pirqañaxa qalltaña, alaya chika taypiru tukuyañataki. Uka maystrataki uskuta jisk'a aruwinakaxa pirqasa pirqasaxa apaqxañarakiwa.



K'umphu pirqa

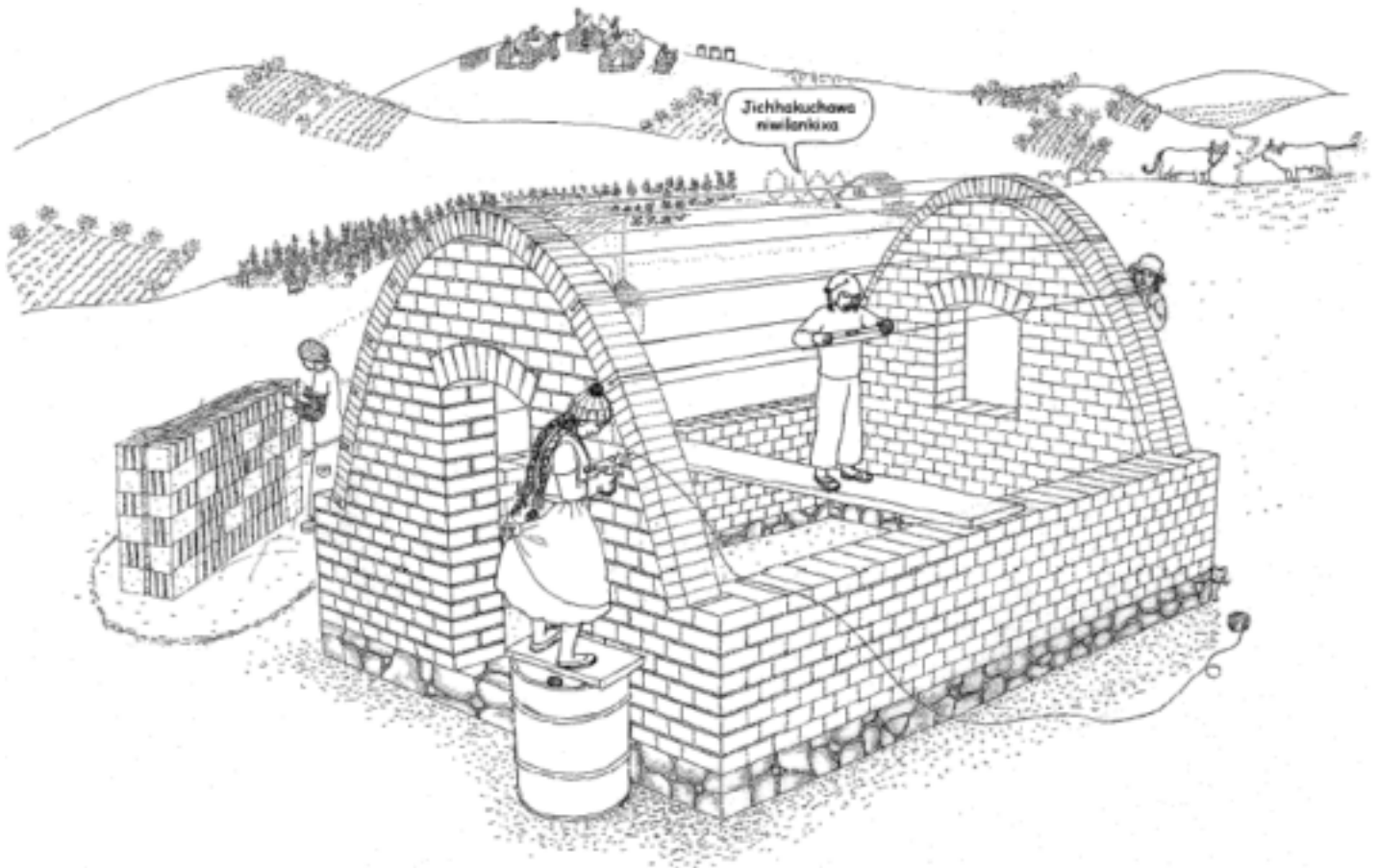
K'umphu pirqaxa pachpakiwa sayt'i, jani kuna tikiljanakani, thurupaxa 15 cm tupuniwa, jisk'a aruwinakampiwa luraña, alt'atawa pirqaña, Laq'a Uta pirqanakaparu ukhamaraki catenario sata pirqaru arimt'ata.

25×15×6 cm tupuni jisk'a aruwinakampi ñiq'impawi luraña.

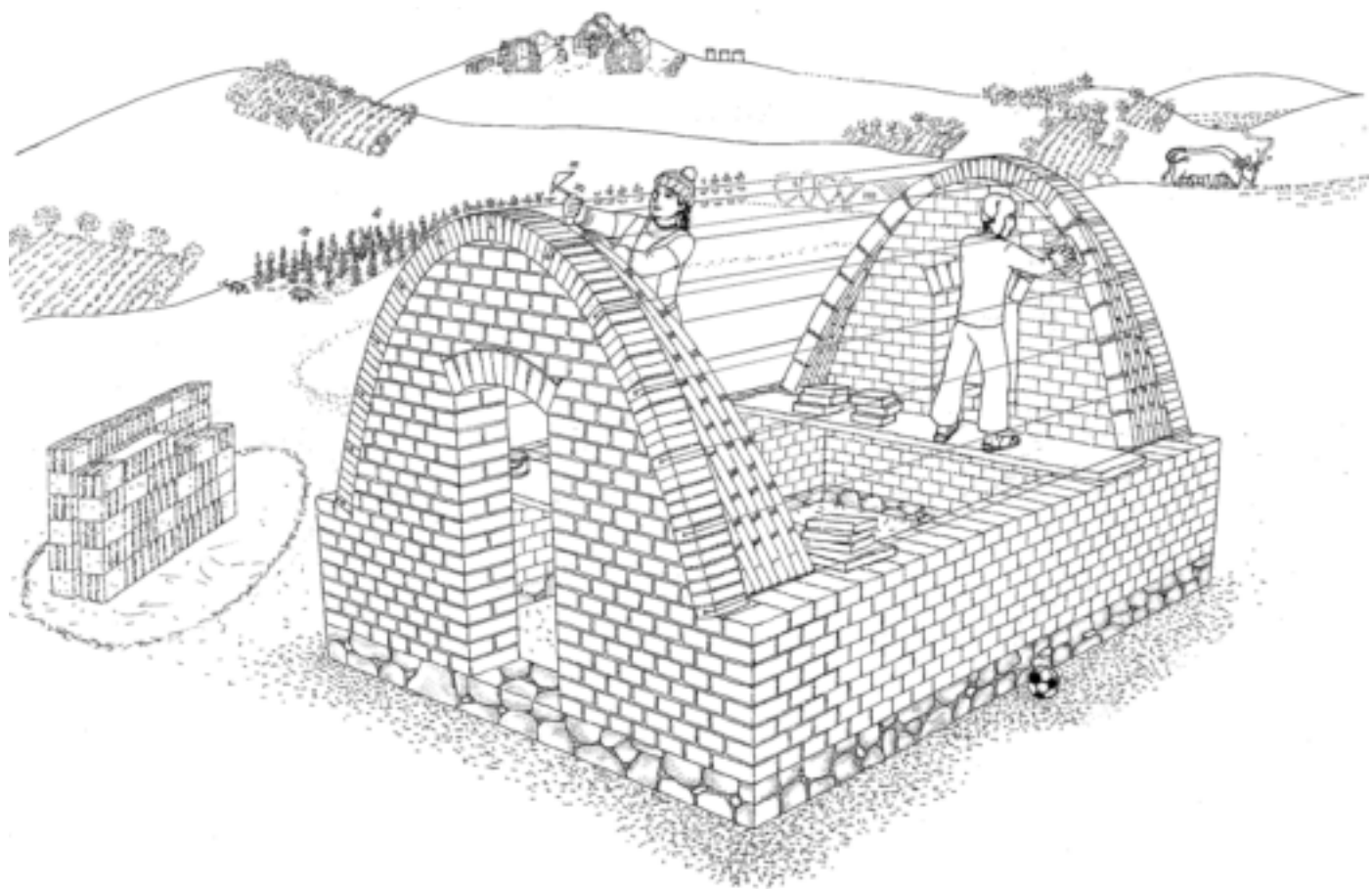
Mayaki paypacha tuqita k'umphu pirqa pirqañaxa qalltaña, chika taypiru tukuyañataki. Jani jitthaptañapatakixa mä urunxa mä mitrukiwa pirqaña.

K'umphu pirqa pirqañatakixa wakisiwa:

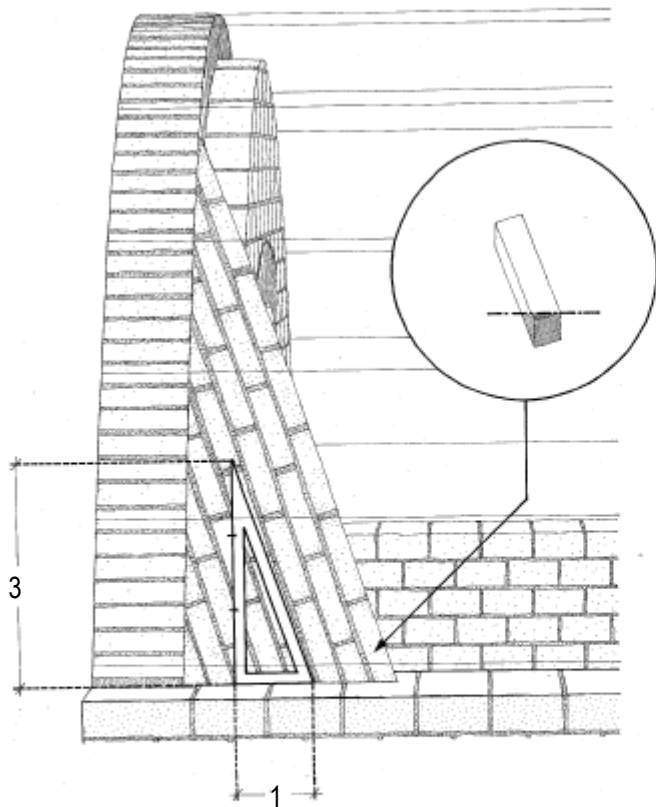
1. K'umphuxa suma khuskhaki sarañapatakixa mä karinata mayni karinaruxa jilunakawa niwilt'asa jiyt'aña, sapa jiluxa 50 cm jaypacharuwa jiyt'aña (7 jisk'a aruwi).



2. Jilunaka suma amuyasa, uka kikpa alt'ata pirqa k'anjasa k'anjasawa mayni aruwi siqinakaxa pirqaña.



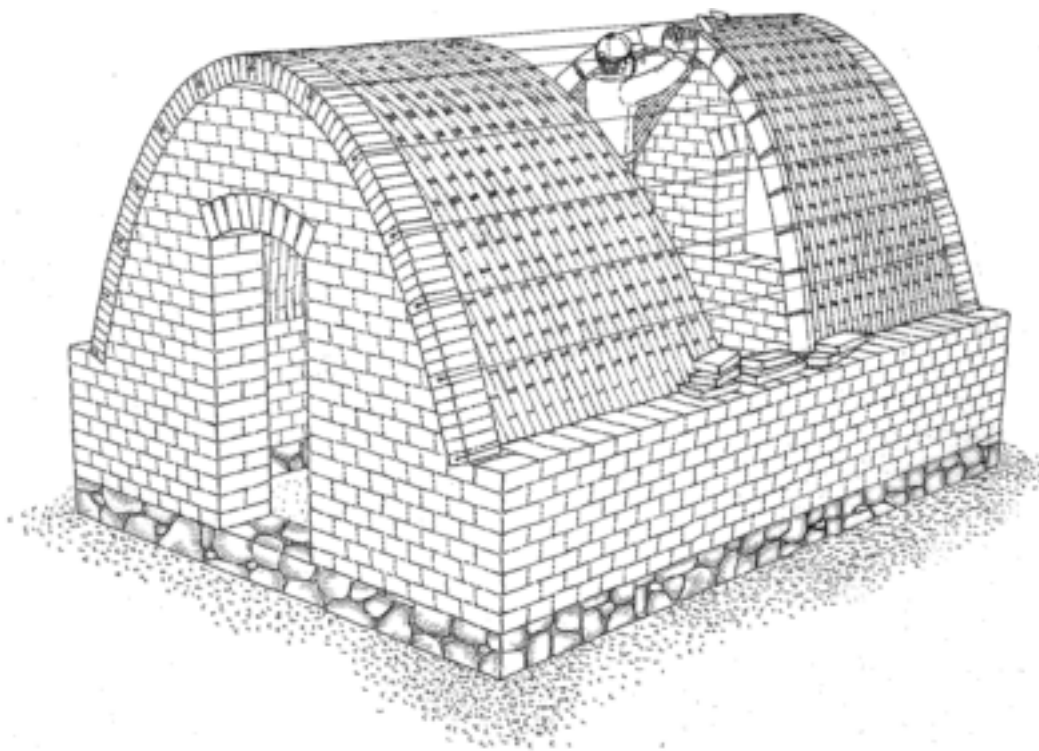
3. Alt'ata pirqa lurañatakixa akhamawa amuyaña: pampa tuqiruxa mä chiqawa uta pirqaru sarxatañapataki wakisi, alayaruraki kimsa kikpa chiqawa karinaru sarxatiri wakisi.
4. Sapa siqinxá nayriri alt'ata jisk'a aruwixa pirqaru takxatañapatakisa karinaru saykatañapatakisa wakisiriparjamawa k'uthaqaña.



5. Sapa siqina nayriri jisk'a aruwixa yaqha chika jisk'a arumpi maykipawa makhatañapa, ukhamata pirqaxa suma k'anjasinixa.

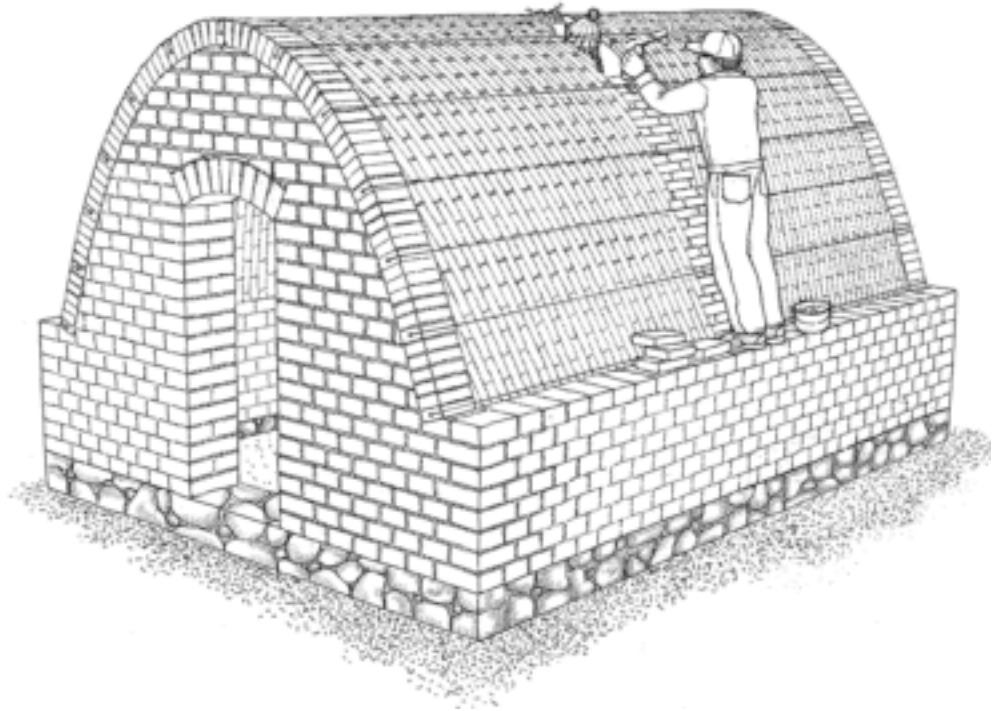


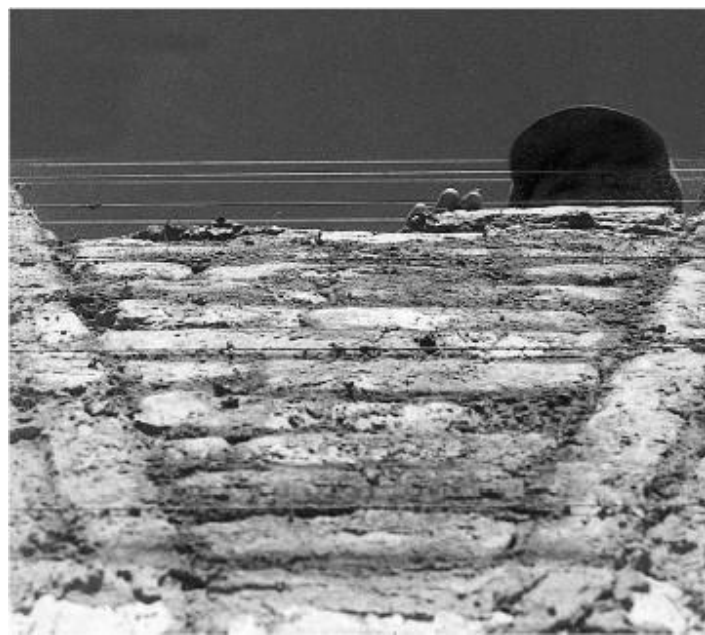
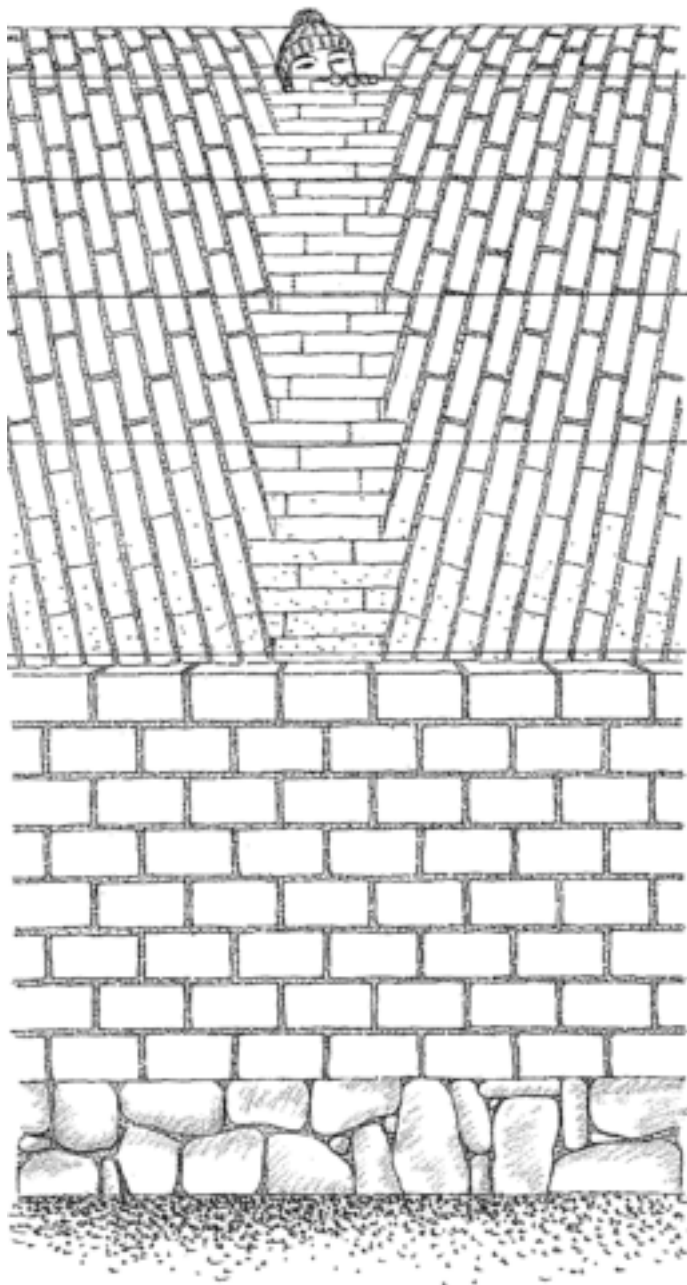
6. Uka siqinakaxa jisk'a aruwinaka ñiq'i patxaru itxatasa, aynacharusa thiya tuqirusa suma liqt'asawa utt'ayaña, nayriri siqiru suma lip'katañapataki. Uka siqixa k'umphu pirqa chika taypiruwa tukuyaña, ukata yaqha siqixa qalltañaraki.
7. Ukhama mayni siqinakaxa tukuyañkama luraña, uka k'umphu pirqaxa chika taypina niya mä jisk'a aruwi mantañapkamawa luraña.





8. Aka chiqana k'umphu pirqaxa jist'thapiña jani ukaxa puqsuña, ukatakixa winkt'atawa jisk'a aruwinakaxa uchaña, k'umpxata kikipawa luraña, puraparu niya yaqha jisk'a aruwi siqi mantañapkama, ukhama purapa chiqana luraña, ukhamata k'umphu pirqaxa luraña, chika taypina tukuyañkama.





A photograph of a brick wall with a curved arrow pointing to a specific brick. The bricks are light-colored and arranged in a standard pattern. The arrow is black and curves from the bottom right towards the center-left.

Lajla **5**

Instalañanaka

Lupi junthu katuqaña

Trombe pirqa sataxa lupi junth'u uta manqharu katuqañatakiwa. Ukaxa Laq'a Uta pirqana inti tuqiru uñtata (alaya) luratawa. Uka pirqaxa ch'iyarata samichsuta pirqaru mä qhana mantayiri t'alpha yämpi k'umphxatatawa, uka yäxa uruxa intina junth'u lupipa katuqi arumaxa uka junth'upa uta manqharurakiwa irpanti.

Ukatakixa palastiku t'alpha kalamina, simintumpita jirumpita wakichatawa, jisk'a aruwinakampi ch'iyara samichirimpi lurataxa utjarakiwa.

Trombe pirqaxa anqa pirqanakasa k'umphu pirqasa ñiq'impí suma lluchsuña tukuyasawa luraña.



Trombe pirqa sata lurañatakixa wakisiwa:

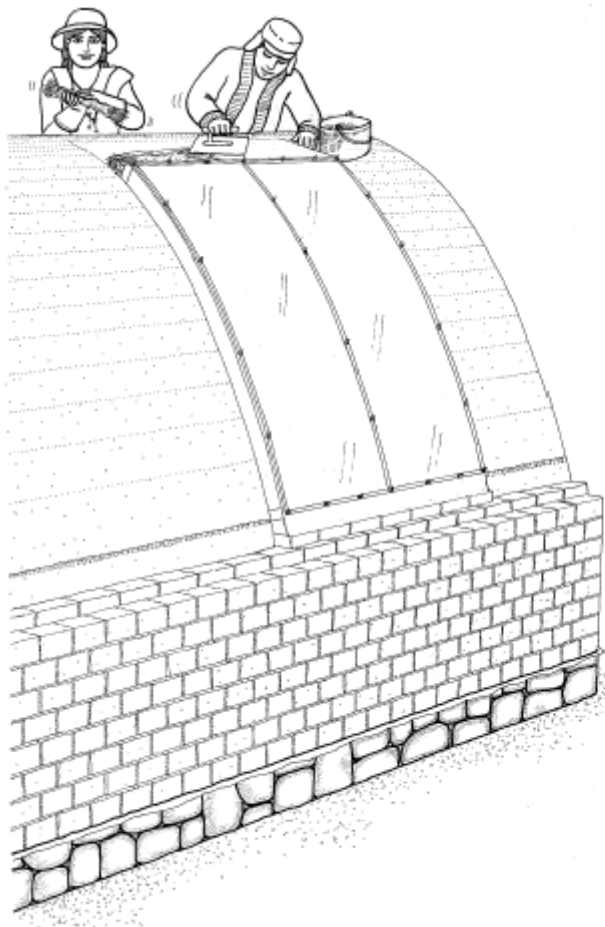
1. K'umphu pirqa patxaruxa alaya tuqiru uñtata t'uxjama lurata yäwa sayt'ayaña, palanuna kawkhankkiti ukhamarjama.
2. Uka apxatata t'uxjama lurata yäna aynacha tuqipaxa suma niwilt'aña, ukata ukhakama, uka yä suma takxatañapatakixa jisk'a aruwinakampi pirqkatasawa phuqhachaña.
3. Uka t'uxjama lurata yä uka jisk'a aruwinaka pirqata pataruwa takxatayaña, wakisinixa ñiq'impisa kuna p'iyanka phuqhachakiraksnawa.
4. K'umphu pirqanxa, t'uxjama lurata yä manqhaparuxa pusi jisk'a piyawa luraña, sapa mayaxa 4" (4 puljara) tupuni, payaxa alayana payaraki aynacha tuqina, q'ala p'iysuña uta manqhakama. Aka p'iyanakaruxa uka PVC sata 4" tupuni phusanakawa uchaña, khuchhuqata wutilla uskuraksnawa, jani ukaxa ñiq'impisa lluch'sukiraksnawa.
5. K'umphu pirqanxa, t'uxjama lurata yä manqha pirqaruxa ch'i yara samimpiwa suma samichsuña.



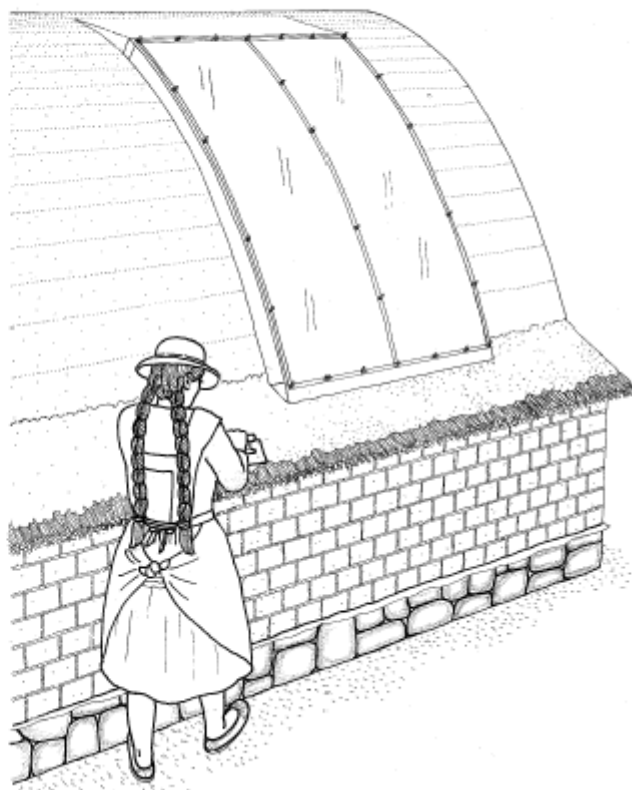
6. Jisk'a aruwimpi pirqataxa, uka t'uxjama lurata yä, suma takxatañapatakixa wakisirjamawa k'uthaqañaraki, ukxaruwa palastiku t'alpha kalamina sarxatani.
7. Ukata palastiku t'alpha kalamina apxataña, suma katuñapatakixa kunjamatixa uka t'uxjama lurata yänxa p'iyanakaxa utji ukhamarjamawa muytpacha p'iyaraña, ukata jiru palatino sunchumpi pirnunakampi kunawa suma katuyaña. Janira uka palastiku t'alpha kalamina suma uchkasaxa muytpacha q'ala lluparaña, janiwa p'iyanakaxa utjañapakiti, jani ukaxa, uka junt'u katuqataxa anqarukiwa mistxaspa, uka lluparañatakixa wakicharksnawa ñiq'impí, t'awrampi, phurumpi, ukhama.



8. Uka k'umphu pirqata patata jallu uma trombe pirqaru jani mantañapatakixa uma jark'aqiriwa luraña, p'iyanakaruxa ñiq'impj jichhumpiwa lluparaña, uka patxaruxa ñiq'impjwa suma lluch'irasa llusk'achaña.



9. Qhiparuxa paypacha jach'a pirqanaku umata jark'aqiri kurawawa luraña. Trombe pirqa chiqanxa jisk'a aruwinaka patxaruwa wayllaqa kurawawa luraña, niya jach'a wayllaqa kurawäkisa uka kikpa

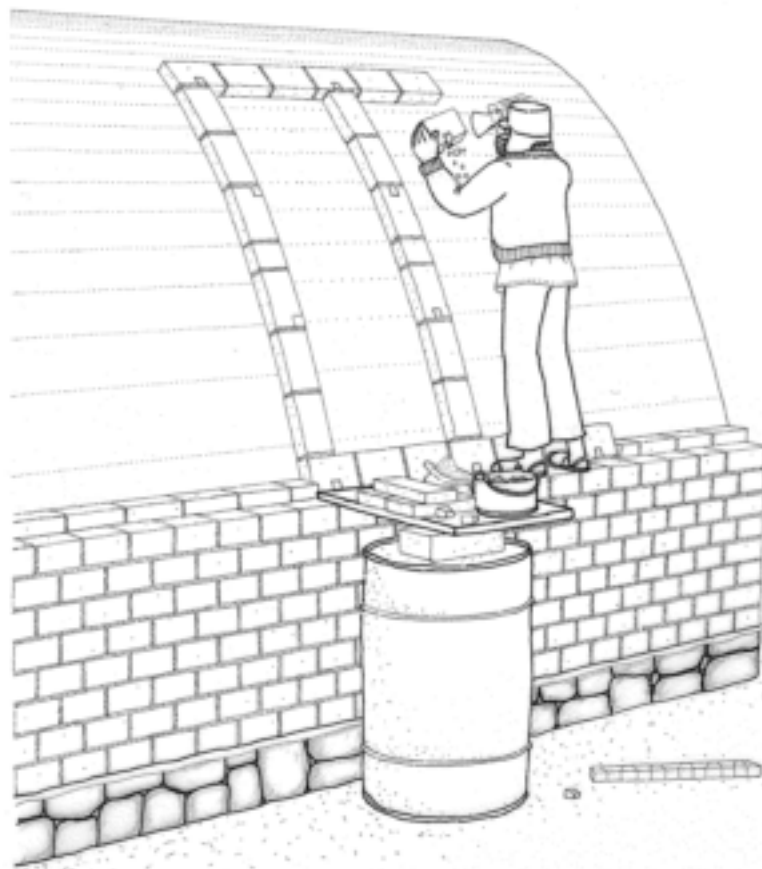


Uka t'alpha kalamina uskuñatakixa yaqha kasta lurañaxa utjarakiwa, ukatakixa jisk'a aruwinakawa uka k'umphu pirqa pataru pirqkataña.

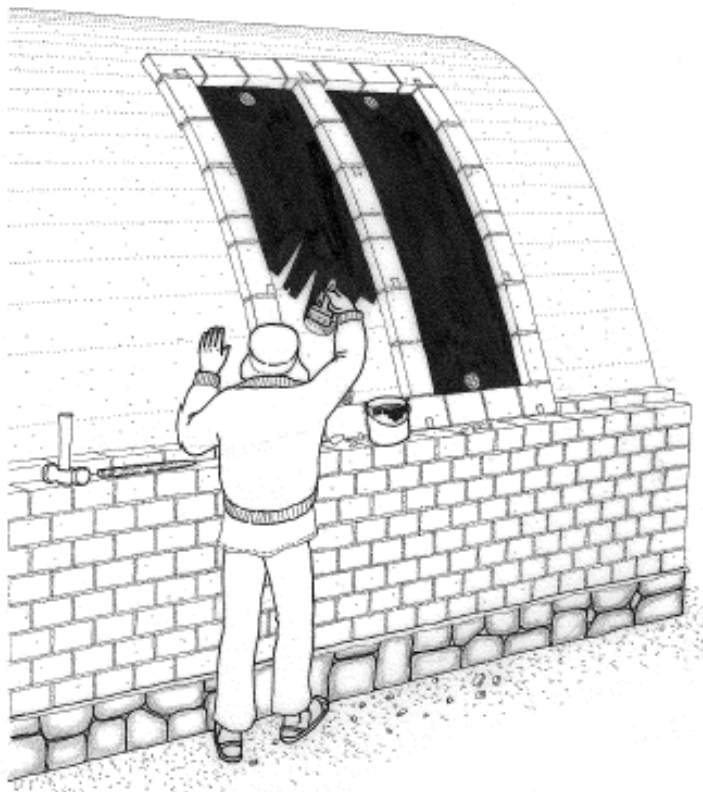
Uka lurañatakixa nayraqataxa anqa pirqawa ñiq'impí suma lluch'irañaraki.

Uka lurañatakixa wakisiwa:

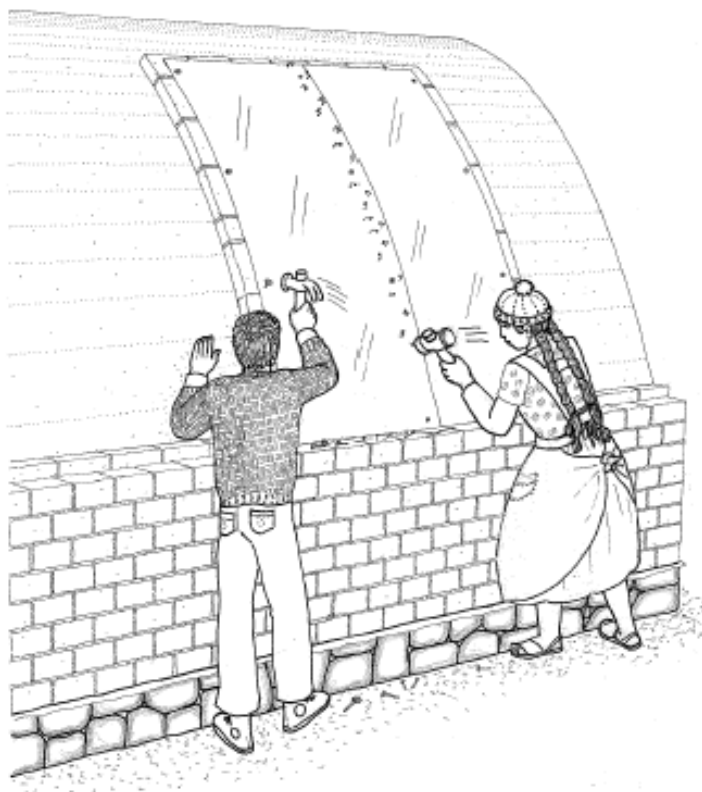
1. Palanunxa kawkharuya wakt'chi uka amuyasawa akhama uka t'alpha palastiku kalamina uchaña:
 - K'umphu pirqaruxa jisk'a aruwinakawa winkt'ataru suk'xataña, thuruta 15 cm tupuni, warutuqiruraki 1.50 m tupuni.
 - Aka jisk'a aruwi siqiru takxatata alaytuqiruxa kimsa jisk'a aruwi siqirakiwa suk'xataña, payaxa thiyanakaru mayaraki chika taypiru, thuruta 15 cm tupuni, warutuqiruraki 2.05 m. tupuniraki.
 - Ukata alaytuqinraki jisk'a aruwinakaxa aka t'uxjama uñtata phuqhachañataki winkt'ata tuqiru siqt'asa uchaña.
2. Aka t'uxjama pirqataru jisk'a lawa takunakawa uchaña, ukxaruwa uka t'alpha palastiku kalamina liq'xataña, uka takunakaxa akhama tupuniñapawa (5x5x5), ukaxa maysatuqixa jach'pacha ajanuni, maysaraki jisk'pacha ajanunikiraki, jach'pacha ajanuxa pirqa manqhankañapawa, jisk'a takunaka uchañatakixa uka jisk'a aruwinakaxa k'utharañarakiwa, takuta takuruxa niya 50 cm. jayankañapawa, uka takunakaxa pachachampiwa suma lluch'intaña.



3. K'umphu pirqatanxa, t'uxjama lurata yä manqhaparuxa pusi jisk'a p'iyawa luraña, sapa mayaxa 4" (4 puljara) tupuni, payaxa alayana payaraki manqha tuqina, ukaxa q'ala p'iysuña, uta manqhakama. Aka p'iyanakaruxa uka PVC sata 4" tupuni phusanakawa uchuña, khuchhuqata wutilla uskuraksnawa, jani ukaxa ñiq'impisa lluch'sukiraksnawa.
4. K'umphu pirqatanxa, t'uxjama lurata yä manqha pirqaruxa ch'iyara samimpiwa suma samichsuña.



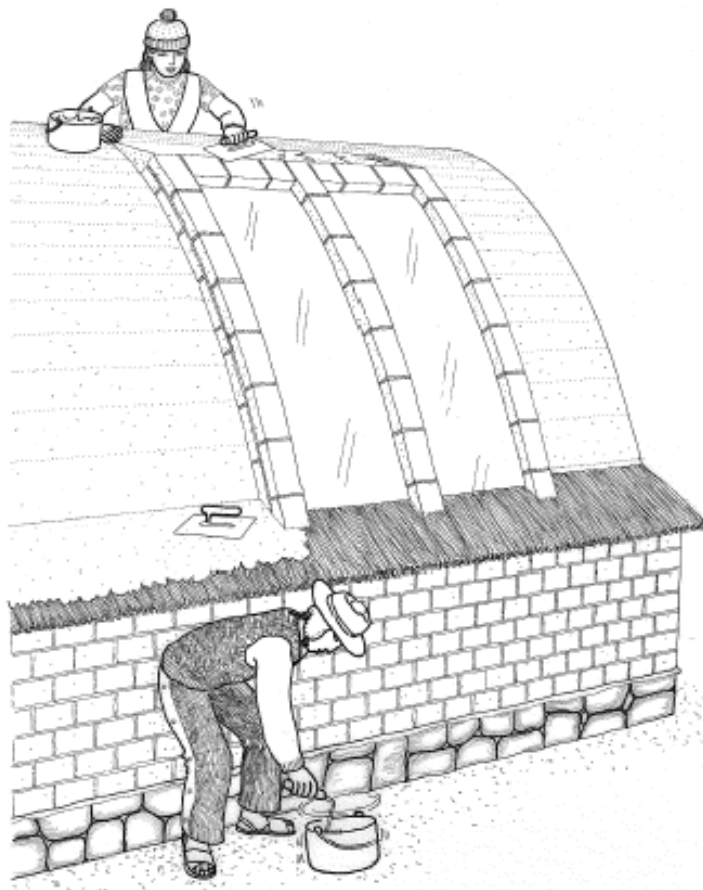
5. P'iyanakasa suma tukuyata, t'uxjama lurata pirqa manqhasa ch'iyara samimpi samichsutaxa, t'alpha palastiku kalamina liq'xatxaña, kalamina kalawumpiwa takunakaru liq'xataña.
6. Alaytuqiru uñtata chika taypi jisk'a aruwi siqiruxa paypacha kalamina sarxatañapa, ukaruxa kalawunakaxa janiwa taqpacha liq'intañakiti, mä juk'a jilt'ayañawa, ukata k'awt'ayañawa, ukxaruxa mä siqi jisk'a aruwimpiwa sarxatañapa.



7. Ukata payiri jisk'a aruwi siqiwa pirqxataña, patāxankki ukarusa alaytuqiru sariri kimspacha aruwi siqirusa. Aynachankirikiwa jani pirqxatatakaniti, ukaxa kurawa wayllaqa uchañatakiwa wakisi. Ukhama pirqxatataxa uka trombe pirqaxa wali suma lluch'intatāxiwa, jani samanasa mistkiri.



8. Uka k'umphu pirqa patata jani jallu uma trombe pirqaru mantañapatakixa uma jark'aqiriwa luraña, p'iyanakaruxa ñiq'impí jichhumpiwa lluparaña, uka patxaru ñiq'impíwa suma lluch'iraña.
9. Qhiparuxa paypacha jach'a pirqanaku umata jark'aqiri wayllaqa kurawawa luraña. Trombe pirqa chiqanxa jisk'a aruwinaka patxaruwa wayllaqa kurawaxa lurañarakiwa, niya jach'a wayllaqa kurawasa luratāki uka kikpa.





Thaya mistu mantayiri

Laq'a Uta alaytuqi uñta pirqapana mä jisk'a p'iyawa utji, ukaxa uta manqhana mak'ipata yatinyañataki ukhamaraki samananka turkañatakiwa wakisi.

Laq'a Uta manqhana jaqixa ikktana ukhaxa samana turkãwixa wali askiwa.

Thaya urunakanxa uka jisk'a p'iyaxa llupantañawa, jani uta manqhankiri junt'uxa anqaru mistuñapataki.

Uka p'iyatakixa PVC sata 4" tupuni phusawa walixa.

Uka thaya mistu mantayiri p'iya lurañatakixa wakisiwa:

- a) Ukatakixa Laq'a Uta uñta pirqapana, chikataypi alaytuqipana, niya 30 cm tupuni k'umphu pirqata aynacharu, mä 10 cm. tupuni jisk'a muyu p'iyawa luraña.
- b) Uka p'iyaru PVC sata 4" tupuni phusawa uchaña, uka phusaxa llupañaniñapawa. Ukxaruxa ñiq'impiswa thiyanakaxa suma lluch'iraña. Uka PVC phusa jani utjipanxa wutilla khuchhurata uskuraksnawa, ñiq'impikisa suma lluch'irakiraksnawa.





Lajla 6

Laq'a Uta
q'umachaña

K'umphu pirqa ñiq'impí lluch'suña, umata jark'aqaña

Laq'a Uta k'umphu pirqaxa kimsa ampara ñiq'impíwa suma lluch'suña, sapa amparataki ñiq'ixa mayja mayja wakichañarakiwa.

Pirqanaka ñiq'impí lluch'irañasa umata jark'aqañasa askiwa, jallu umanakata, chhijchhi umanakata, khunu umanakata Laq'a Utana k'umphu pirqapasa jani yanqhachatañapataki.

Ukatakixa laq'ampi, jichhumpi asnu phurumpi kunawa ñiq'ixa wakichaña. Tunasa pinka utjipanxa ukampixa walirakiwa.

Sapa ampara lluch'irañatakixa k'umphu pirqaxa umampiwa ch'arant'aña.

K'umphu pirqa ñiq'impí lluch'irañatakisa umata jark'aqañatakisa wakisiwa:

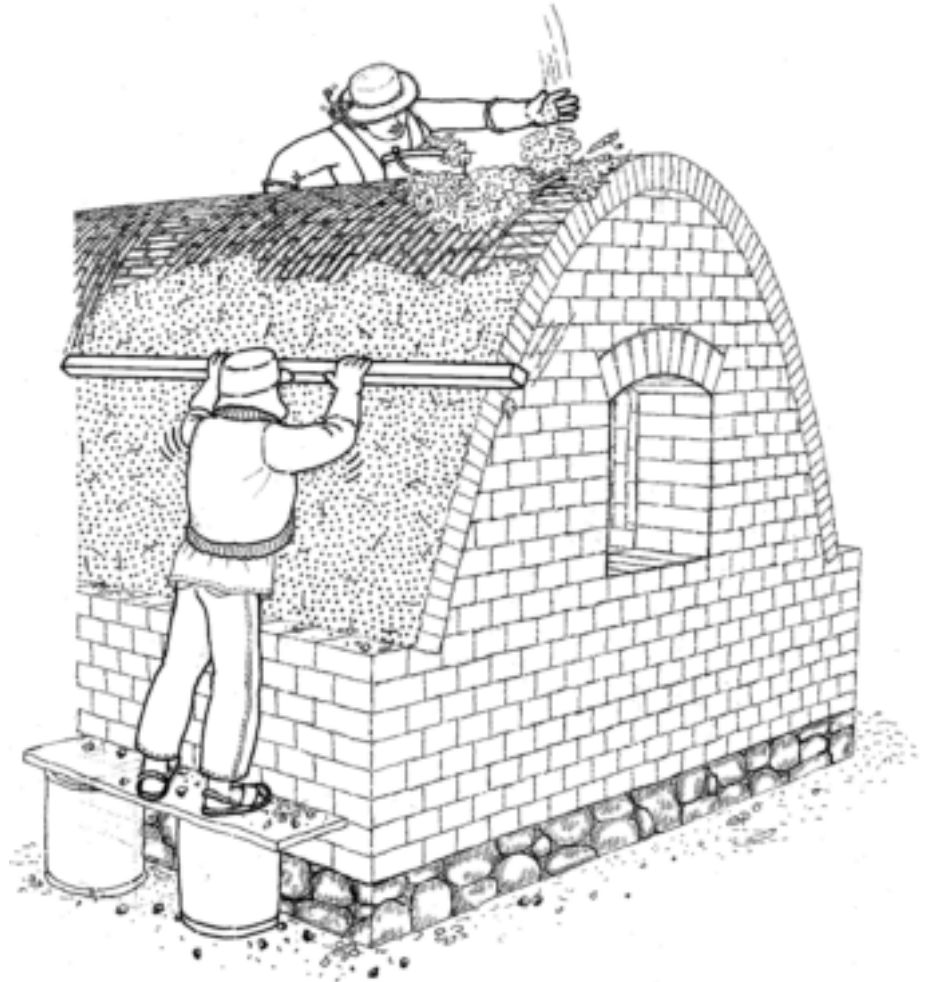
1. Jisk'a aruwi jikthaptanakaxa suma pichsuña ukhamaraki kalawumpi uka k'umphu pirqa taqituqiru rixsuña.



2. Nayriri ampara ñiq'ixa ch'amampiwa k'umphu pirqaru lluch'intaña, ukatakixa ñiq'ixa akhama wakichaña:

- Susuta laq'a (2 tupu)
- Khuchhutu jichhu (1 tupu)

Aka nayriri ampara ñiq'ixa niya 2 cm thuru tupuniwa sarxatañaapa, ukata rijlampiwa suma khuskhachaña.



3. Purapa karina patxaru pulumart'asa 1.5 cm thuru tupuni ñiq'i takunakawa uchaña, alaytuqiru qalltañataki maya, tukuyañatakiraki maya, uka taypina 7 takuraki niya kikpa jaypacharu uchaña, ukanakaxa maystratakiwa wal'ini.
4. Takunaka uchaña tukuyasaxa jilunakawa mä karinata mä karinaru jiyt'aña. Rijlt'aña jani ch'amañapatakixa janiwa sinti jayanakaru uchañati (1.50 m tupuruxa wal'ispawa).

Takunakana thurupaxa chika taypi maystratakixa ukhamarakiñapawa.

5. K'umphu pirqana saraparjamawa ñiq'i takunakaxa khuskhachaña, ukhamata uka lluch'irataxa pay'iri ampapa ñiq'itakisa uma jark'aqiri lluch'itatakisa wali askirakini.
6. Pay'iri ampapa ñiq'ixa mayirjama lurañarakiwa, maystranakarjama ñiq'impisuma phuqhachaña. Uka ñiq'ixa akhamawa wakichaña:

- Susuta laq'a (8 tupu)
- Khuchhuta jichhu (2 tupu)
- Asnu phuru (2 tupu)
- Tunasa pinka imata uma (3 tupu)

Aka ampapa ñiq'ixa rijlampiwa suma aski pariñapataki maystranakarjama khuskhachaña.

7. Tunasa pinka imata umaniñatakixa, pinkaxa ch'axtañawa ukata mä simanawa imaña.

- 1 tupu tunasa pinka
- 1 tupu uma

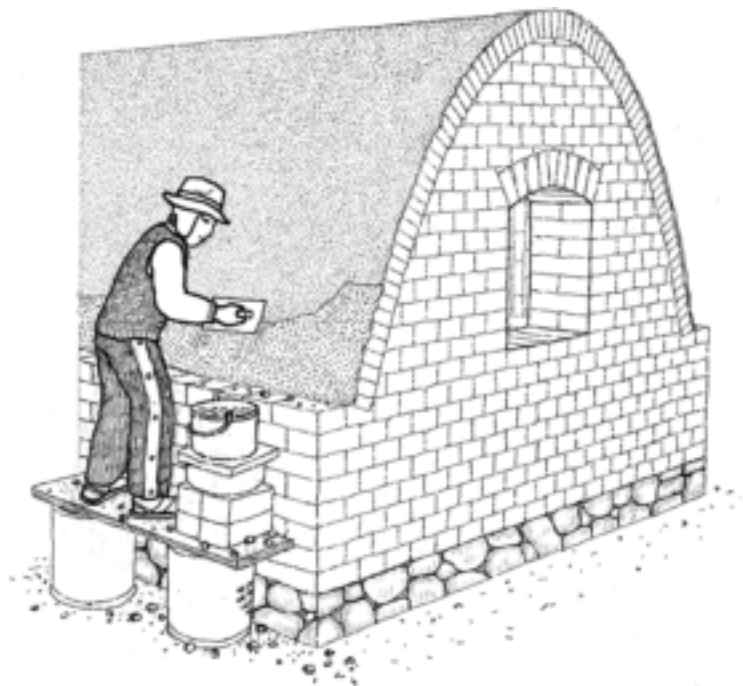
Aka pinka umaxa ñiq'i wakichataru warxataña.



8. Kimsiri ampara ñiq'ixa palanchampi wali ch'amampi limt'asawa luraña, k'umphu pirqa patxaru mä khuskha sarañapataki (niya 0,5 cm thuru tupuniñapawa). Uka ñiq'ixa akhamawa wakichaña:

- Susuta laq'a (2 tupu)
- Susuta asnu wanu (1 tupu)
- Tunasa pinka imata uma (1 tupu)

Ukhama lluch'ita k'umphu pirqaxa, jallu umansa khununsa jarirataxa sapa mara jani ukaxa sapa pä marawa suma lluch'ikipaña.



Laq'a Uta k'umphu pirqaxa ñiq'impí suma lluch'irañatakisa, uma jark'acaqñatakisa ñiq'i inturtarumpixa luratarakispawa.

Ñiq'i inturtaxa ñiq'ita t'alpha wiskhallanaka wakichatawa, niya 60 cm t'alhpacha tupuniñapawa. Ukanakaxa aynachatuqita qalltasina alaytuqiruwa tukuyaña.

K'umphu pirqanakaru purapa tuqita qalltasa mayakiwa tuksuña.

Lurañatakixa wakisirakiwa:

1. K'umphu pirqaxa patxaru ñiq'iwa mä 60 cm. tupuru uchaña, aynachatuqita qalltasiña alaya tuqiru tukuyañkama.
2. Uka ñiq'i patxaruxa jani saphini jichhuwa sayt'ataru siqt'ata suma uchaña,
3. Jichhu patxaruxa ñiq'irakiwa sarxatañapa uka pata suma khushhachañataki.

Uka ñiq'ixa niya 1.5 cm thuruñapawa, ukxaruxa rijlampiwa suma khushhachaña.

4. Ukhama Laq'a Utana k'umphu pirqana uka inturtaru sataxa luraña.
5. Patxapa suma q'umachañatakixa ñiq'ixa palanchampiwa ch'amampi limt'aña, ukhamata uta k'umphuxa khushhaki saranixa, uka ñiq'ixa 0.5 cm tupu thuruñapawa. Ñiq'ixa akhamarakiwa wakichaña:

- Susuta laq'a (2 tupu)
- Susuta asnu phuru (1 tupu)
- Tunasa pinka uma (1 tupu)

Uka lluch'irata k'umphu pirqaxa, jallu umansa khununsa jarirataxa sapa mara jani ukaxa sapa pä marawa suma lluch'ikipaña.





K'umphu pirqa yaqha lluch'ikipäwinaka:

- K'umphu pirqaru ñiq'impí suma lluch'irasaxa jichhuxa niya 5 cm thuruwa suk'xataña.

Jichhuxa t'alpharu suk't'aña, niya 60 cm pamparu tupuni, ukata uta k'umphuna ñiq'impí lluch'suta pataruwa jichhuxa uchaña, aynachatuqita qalltasaxa alaytuqiruwa tukuyaña. Purapa tuqita mayaki qalltaña, khuskhaki sarañapawa wali amuyaña.

- K'umphuta pataruxa mayampi 45° winkt'atawa jisk'a aruwinakaxa suk'xataña, q'ala muytpacha, suma utt'añapatakixa ñiq'impíwa q'ala L'aqa Uta k'umphu patxaruxa lluch'irañaraki.

Aka jisk'a aruwinaka patxaruxa umata jark'aqañatakisa pä ampara ñiq'iwa suma lluch'xataña

Mayiri amparatakixa ñiq'ixa akhamawa wakichaña:

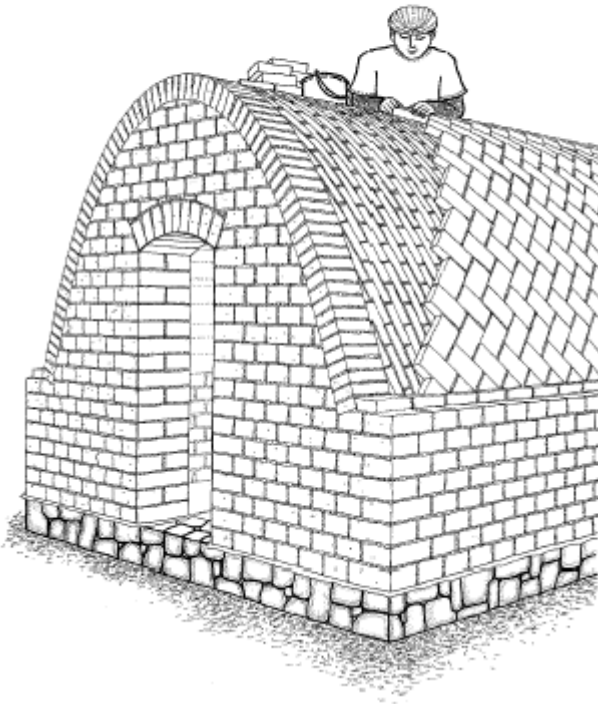
- Susuta laq'a (8 tupu)
- Khuchhuta jichhu (2 tupu)
- Asnu phuru (2 tupu)
- Tunasa pinka imata uma (3 tupu)

Uka ñiq'i lluch'xatasaxa rijlampiwa khuskhachaña.

Payiri amparatakixa ñiq'ixa akhamarakiwa wakichaña:

- Susuta laq'a (2 tupu)
- Susuta asnu phuru (1 tupu)
- Tunasa pinka imata uma (1 tupu)

Uka ñiq'i lluch'xatasaxa palanchampiwa suma llusq'aki khuskhachxaña.



Uta manqha pirqanaka lluch'iraña

Uta manqhäxa pirqanakxa wakichata ñiq'impwiwa pä ampära suma lluch'iraña.

Laq'a Utana k'umphu manqhäxa pirqa suma khushchachañatakiwa, ukhamaraki jani jank'a thanthstañapataki.

Ukatakixa laq'ampi, jichhumpi asnu phurumpiwa aski. Tunasa pinka ukawkanakana utjipanxa, tunasa pinkana umapaxa askirakiwa.

Pirqanaka sapa kuti lluch'irañatakisa k'umphu pirqa lluch'irañatakisa umampwiwa mä juk'a ch'arant'aña.



Pirqanaka lluch'irañatakixa wakisiwa:

1. Pirqa juntanakaxa suma pichsuña, ukhamaraki pirqanaksa k'umphu pirqsa kalawumpiwa rixsuña.

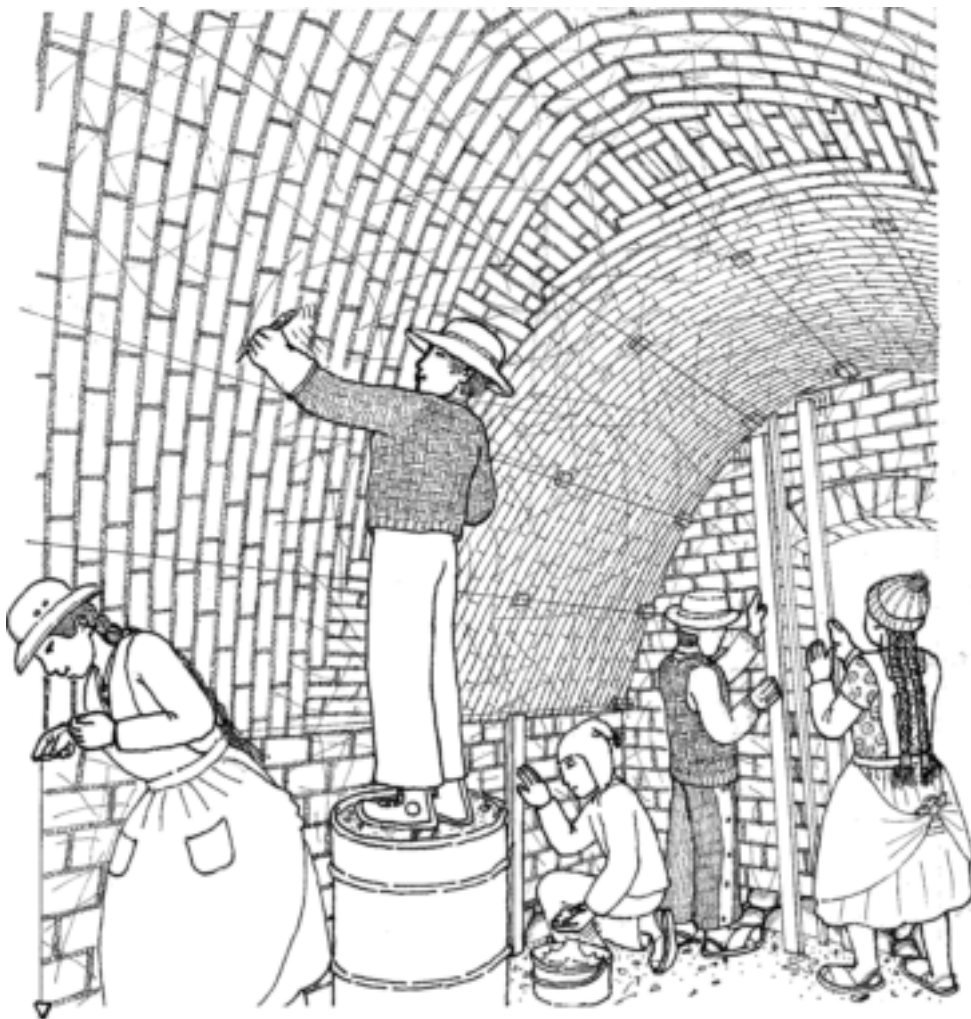
2. K'umphu pirqana purapaparu pulumart'asa 1.5 cm thuru tupuni ñiq'i takunakawa uchaña, mayaxa qalltañataki mayaraki tukuyañataki, uka taypina 7 takurakiwa niya kikpa jaypacharu uchañaraki, ukanakaxa maystratakiwa askini.

3. Takunaka uchaña tukuyasaxa jilunakawa mä thiyata mä thiyaru jiyt'aña. Rijlt'aña jani ch'amañapatakixa janiwa sinti jayanakaru uchañakiti (1.50 mts tupuruxa walispawa).

Takunakana thurupaxa chika taypi maystranakatakiwa walirakini.

4. K'umphu pirqana saraparjamawa ñiq'i takunakaxa luraña, ukanakaxa maystratakiwa walini, ukhamata uka lluch'irataxa jiwa khuskhakirakini. Uka maystranakaxa jilumpi jiyt'asa pulumart'asaxa pirqanakkamawa sarañapa.

Nayraxa pirqansa qhipaxa pirqansa maystranakawa thiyanakaparu uchaña, ukhamaraki punku chiqansa t'uxu chiqansa maystranakxa apst'aña, pulumarampi jilumpi jiyt'asa.



5. Nayriri ampara ñiq'ixa ch'amampiwa k'umphu pirqarusa aliqa pirqanakarusa lluch'intaña, ñiq'ixa akhama wakichatañapawa:

- Susuta laq'a (4 tupu)
- Jisk'aru khuchhutu jichhu (1 tupu)

Aka nayriri ampara ñiq'ixa niya 2 cm. thuru tupuniwa sarxatañapa, ukata rijlampiwa maystranakaparjama suma khuskhachaña.



6. Payiri ampara ñiq'ixa ch'amampi limt'asa palanchampiwa suma khuskhaki k'umphu pirqaru lluch'iraña, (niya 0.5 cm thuru tupuni). Uka ñiq'ixa akanakampiwa wakichaña:

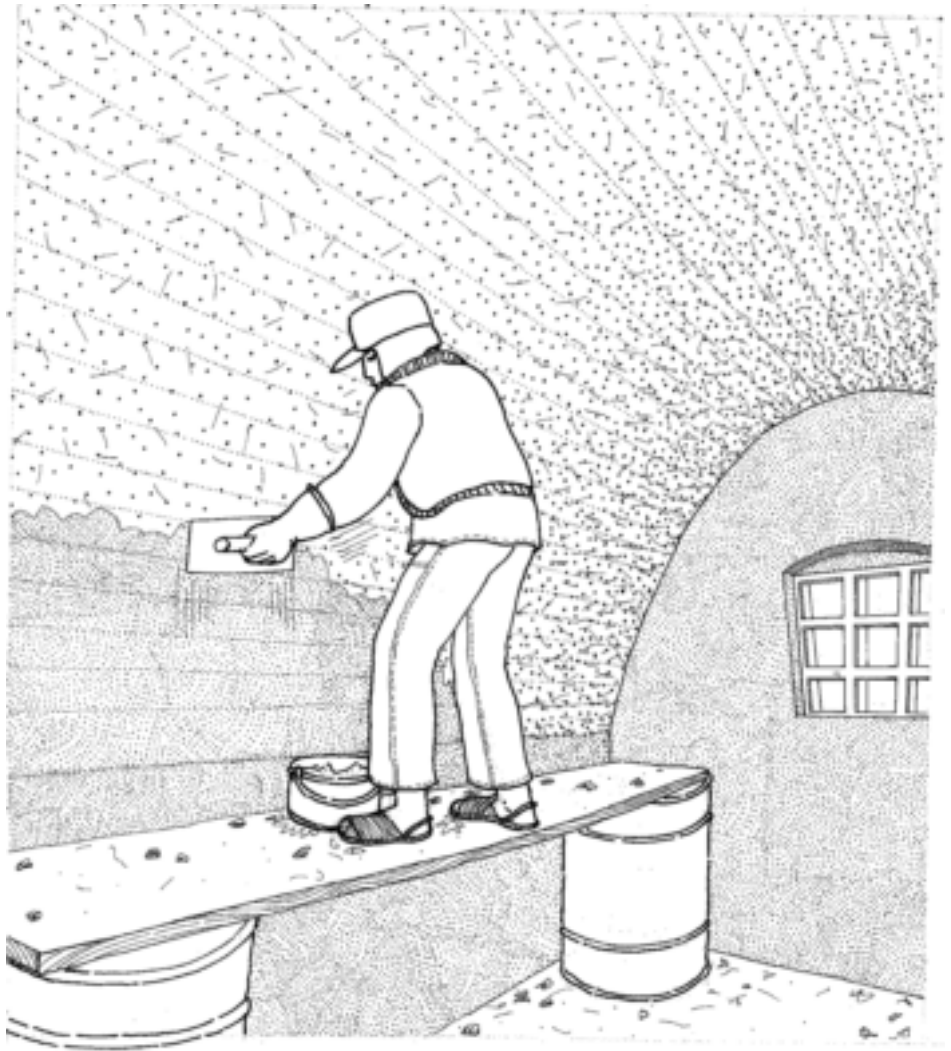
- Susuta laq'a (2 tupu)
- Asnu phuru (1 tupu)
- Tunasa pinka imata uma (1 tupu)

Aka ñiq'iru pachachampisa q'atawimpisa q'umachañataki yapt'araksnawa.

7. Tunasa pinka imata uma jikiñatakixa, pinkanakaxa ch'axtañawa, ukata mä simanawa imaña:

- 1 tupu tunasa pinka
- 1 tupu uma

Aka pinka umaxa ñiq'i wakichataruwa warxataña.



Uta anqa pirqanaka lluch'iraña

Laq'a Utana anqa pirqanakapaxa kimsa ampara ñiq'impixa suma lluch'iraña, sapa amparataki ñiq'ixa mayja mayja wakichañarakiwa.

Aka Laq'a Utana pirqanakapa ñiq'impixa lluch'irañaxa umata, jallu umata, chhijchhi umata, khunu umata jark'afañataki, jani pirqanaka jarirañapakiwa.

Ukatakixa laq'ampi, jichhumpi, asnu phurumpi kunawa ñiq'ixa wakichaña. Tunasa pinka utjipanxa ukampixa walirakiwa.

Patxa simintumpi pirqa qalltachiqanpixa uma jalaqawa suma luraña, jani jallu umasa aliqa umanakasa pirqaru ch'arant'añapataki.

Sapa ampara lluch'irañatakixa pirqanakaxa umampixa ch'arant'aña.

K'umphu pirqa ñiq'impixa lluch'iraña tukuyasaxa pirqanakawa lluch'irañaraki.

Pirqanaka ñiq'impixa lluch'irañatakixa wakisiwa:

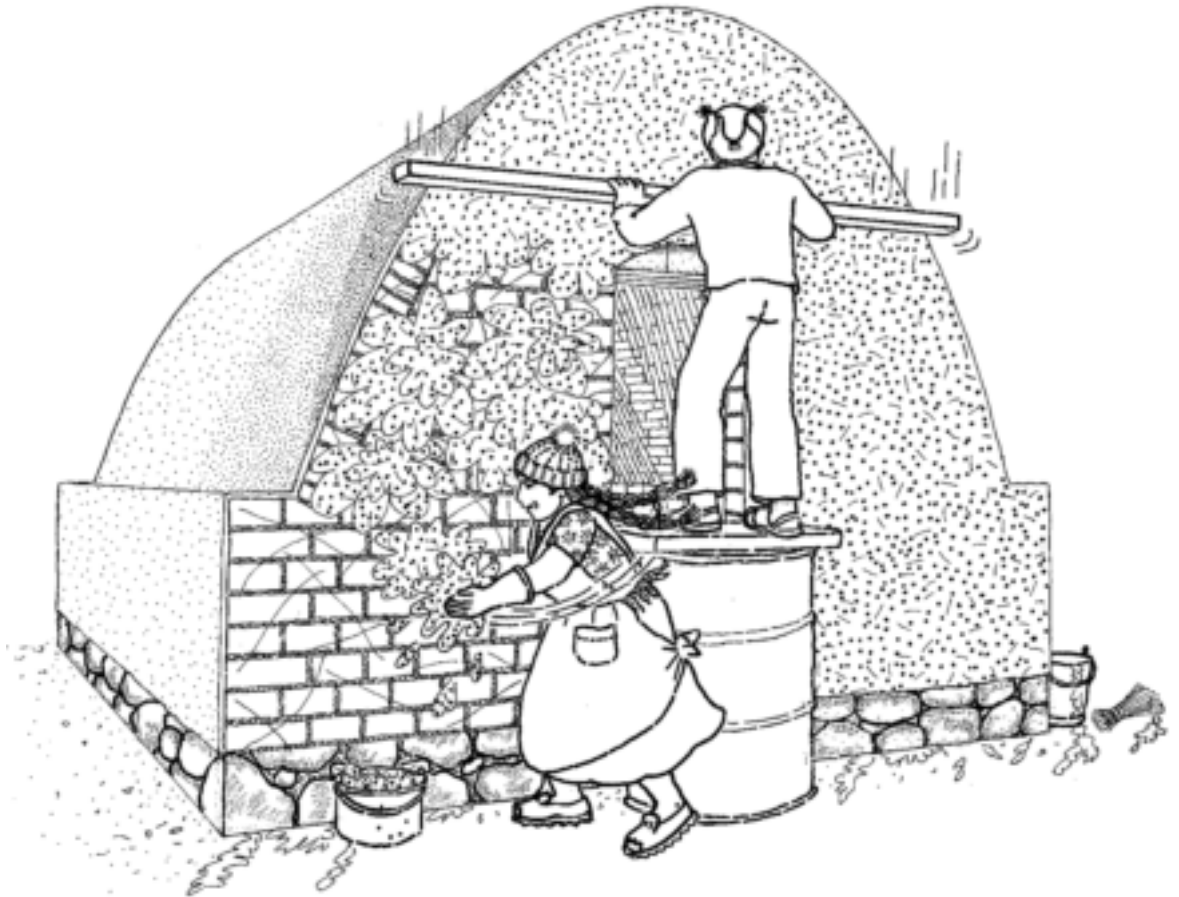
1. Aruwi jikthapiwinaka suma pichsuña, ukhamaraki kalawumpi uka pirqanaka taqituqiru rixsuña.



2. Nayriri ampara ñiq'ixa ch'amampiya ch'arant'ata pirqanakaru lluch'xataña, patjaja suma khuskhachaña, ukatakixa ñiq'ixa akhama wakichañawa wakisi:

- Susuta laq'a (2 tupu)
- Khuchhuta jichhu (1 tupu)

Aka nayriri ampara ñiq'ixa niya 2 cm thuru tupuniwa sarxatañapa, ukata rijlampiya suma khuskhachaña.



3. Aka tukt'ayata pirqaru pulumart'asa 1.5 cm thuru tupuni ñiq'i wiskhallanakawa uchaña, ukanakaxa maystratakiwa askini, ukhamata pirqanakaxa mä khushkaki uñtasiñapataki.

4. Maystranakaxa pulumarampi pulumärt'asawa thiyanakaru uchaña, ukata taypi maystranakaxa rijlt'aña jani ch'amañapatakixa janiwa sinti jayanakaru uchañakiti (1.50 m tupuruxa walispawa). Laq'a Uta uña pirqapansa qhipäxa pirqapansa maystranakaxa thiyanakaruwa uchaña, punku chiqansa t'uxu chiqansa ukhamarjamarakiwa maystranakaxa uchasiña.

5. Pay'iri ampara ñiq'ixa mayirjama lurañarakiwa, maystranakarjama ñiq'impawa suma phuqhachaña. Uka ñiq'ixa akanakampawa wakichaña:

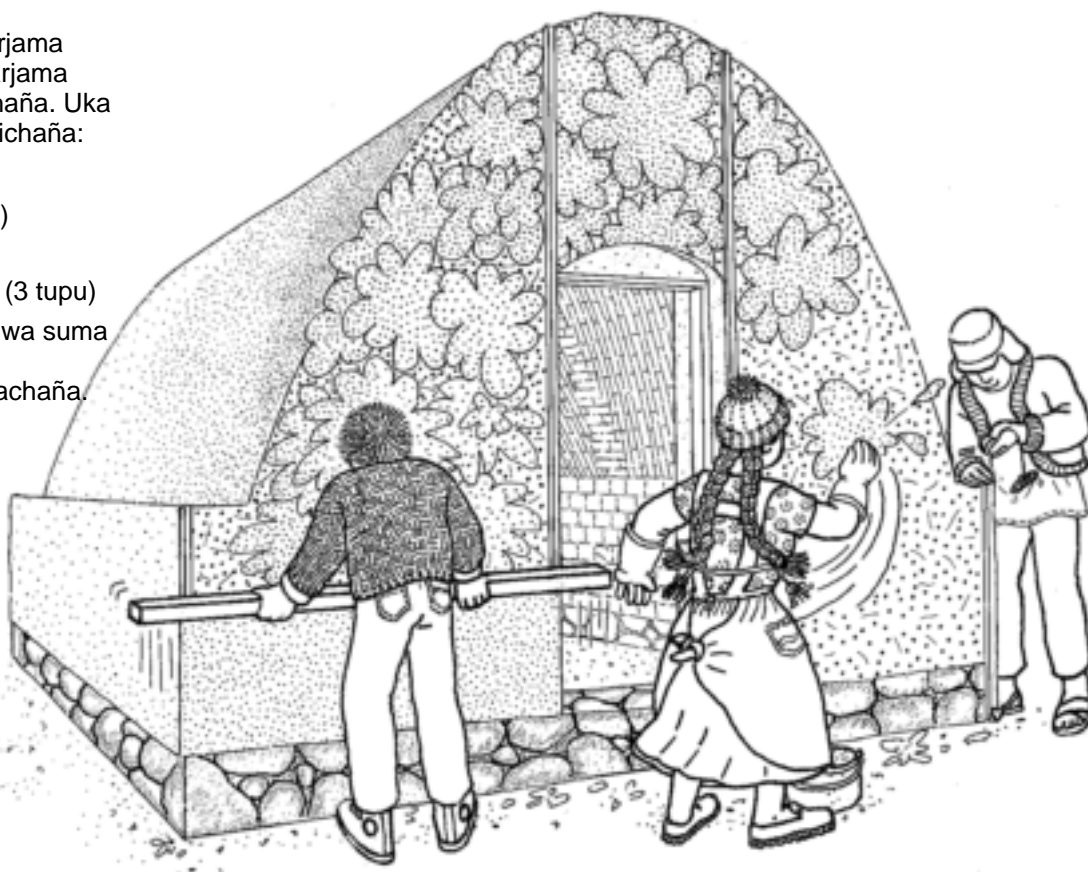
- Susuta laq'a (8 tupu)
- Khuchhuta jichhu (2 tupu)
- Asnu phuru (2 tupu)
- Tunasa pinka imata uma (3 tupu)

Aka ampara ñiq'ixa rijlampiwa suma aski parijuñapataki maystranakarjama khushkachaña.

6. Tunasa pinka imata uma jikiñatakixa, pinkanakaxa ch'axtañawa, ukata mä simanawa imaña.

- 1 tupu tunasa pinka
- 1 tupu uma

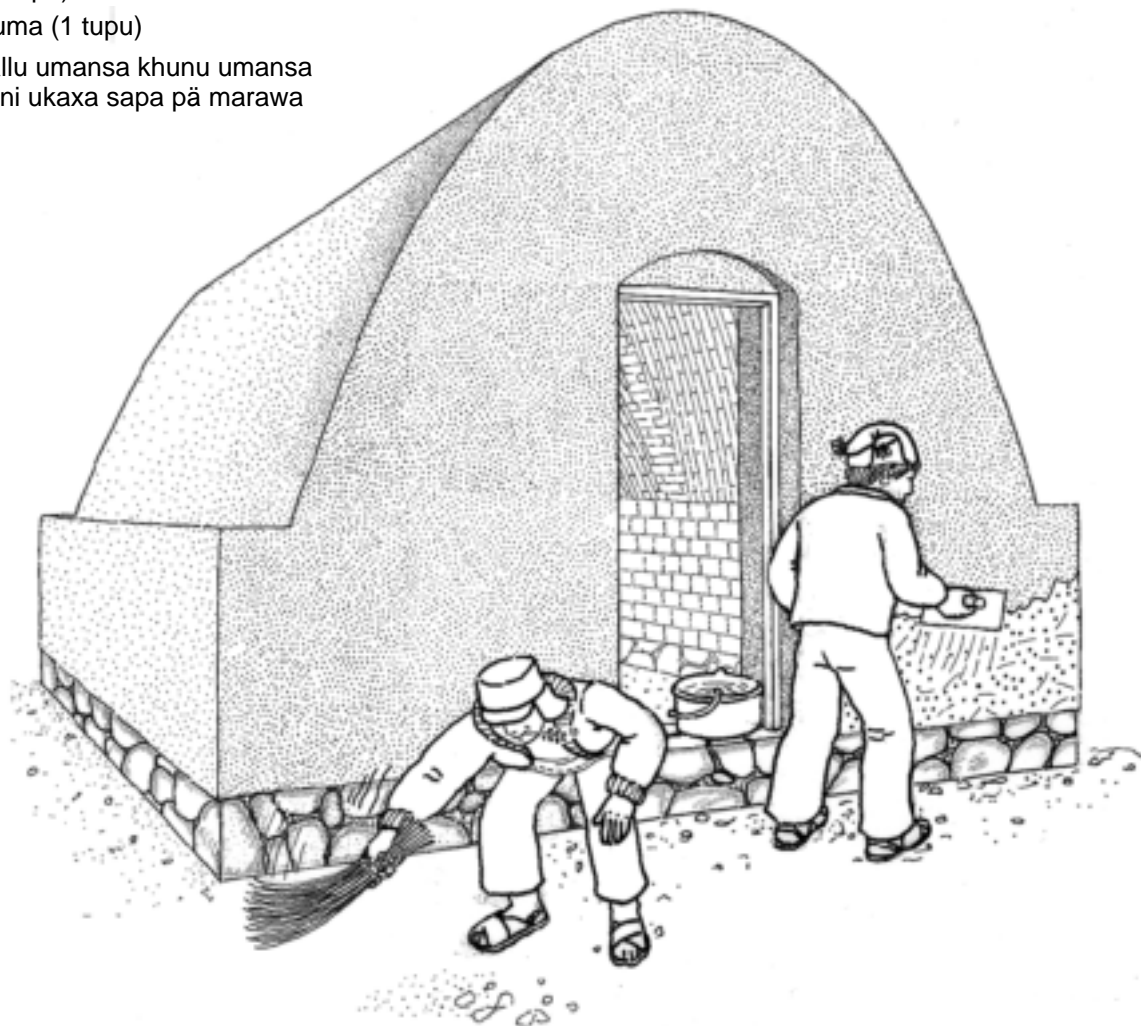
Aka pinka umaxa ñiq'i wakichataruwa warxataña.



7. Kimsiri ampara ñiq'ixa palanchampi wali ch'amampi limt'asawa luraña, k'umphu pirqa patxaru mä khuskha sarañapataki (ñiq'ixa niya 0,5 cm thuru tupuniñapawa). Uka ñiq'ixa akhamawa wakichaña:

- Susuta laq'a (2 tupu)
- Susuta asnu wanu (1 tupu)
- Tunasa pinka imata uma (1 tupu)

Aka lluch'ita pirqaxa, jallu umansa khunu umansa jarirataxa sapa mara jani ukaxa sapa pä marawa suma lluch'ikipaña.



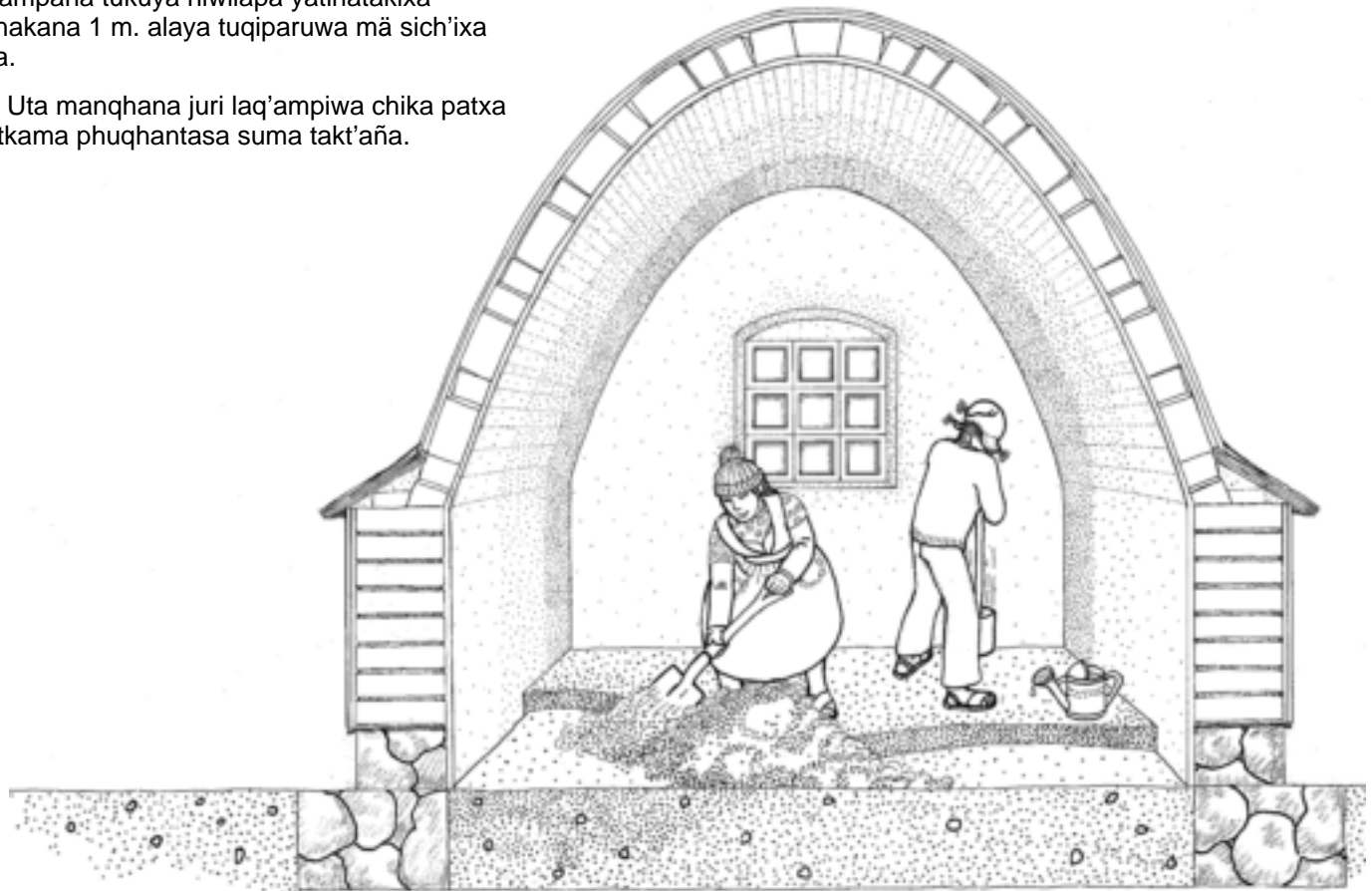
Uta manqha pampa q'umachaña

Ukaxa Laq'a Uta manqha pamparu suma takt'añawa.

Ukatakixa susuta laq'awa askiraki, asnu phurumpi, alkitaranampi, q'añu asiytimpi jani ukaxa linasa asiytimpi kittataxa walirakispawa.

Uta manqha pampa takt'añatakixa wakisiwa:

1. Uta pampana tukuya niwilapa yatiñatakixa pirqanakana 1 m. alaya tuqiparuwa mä sich'ixa luraña.
2. Laq'a Uta manqhana juri laq'ampiwa chika patxa simintkama phuqhantasa suma takt'aña.



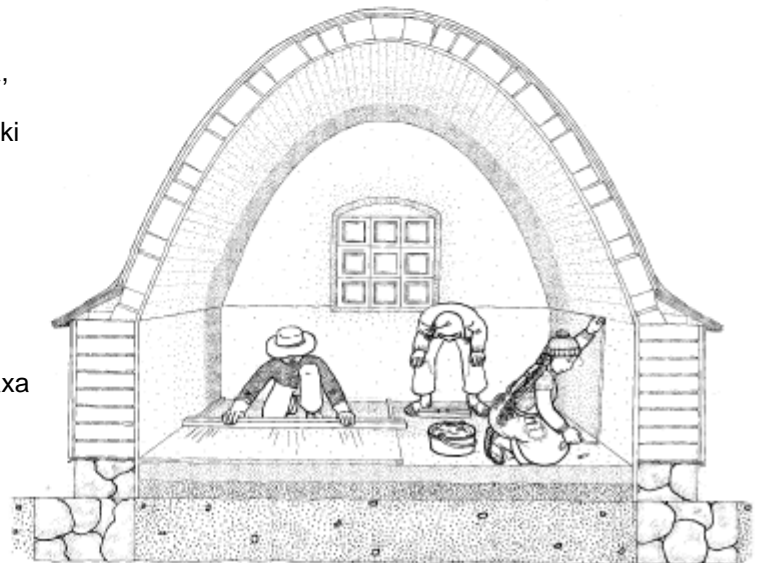


3. Mayampi susuta juri laq'axa patxa simintkama phuqhantaña, ukata ukharu suma takt'añaraki.

4. Pirqana sich'itata ma mitruwa aynacha tuqiru tupt'aña, ukata uta pampa suma niwilt'asa, ukharuwa maystranakaxa apsuña, payaxa thiyanakana, mayaraki chika taypina.

5. Ukata llusk'aki lurañatakixa ñiq'iwa wakichaña susuta laq'ampi umampi, maystranakarjamawa suma phuqhachaña, takt'aña, rijlampiwa khuskhachaña, palanchampirakiwa suma llusk'aki tukuyaña.

Aka ñiq'iruxa asnu phurumpi, alkitranampi, q'añu asiytimpi jani ukaxa linasa asiytimpi uchaña. Akanakaxa wali ch'ullqhiñapataki ukhamaraki jani laq'a sartañapakiwa aski.



Jani uraqixa mak'iñapatakixa nayraqataxa qalampi suk'antasawa liqsuraksnaxa, ukxaruwa laq'ampi suma takt'asksnaxa.

Gambote lärillumpixa uta manqha pampa q'umacharaksnawa.

Uka lurañatakixa wakisiwa:

1. Laq'a Uta manqha pampa suma juri laq'ampi phuqhantasa takt'aña, mä lärillu mantkiri jaytasa.
2. Pirqana sich'ixa rixt'atäki ukampiwa pampaxa yäpa suma khuskhati janicha uka yatsnaxa.
3. Ukata Gambote lärilluxa suma k'ik'i suk'suña, janiwa ch'usa chiqanakaxa utjañapakiti.
4. Mä juk'a susuta laq'awa warxataña, ukampixa kuna jisk'a piyanakasa suma phuqhanchataxani.

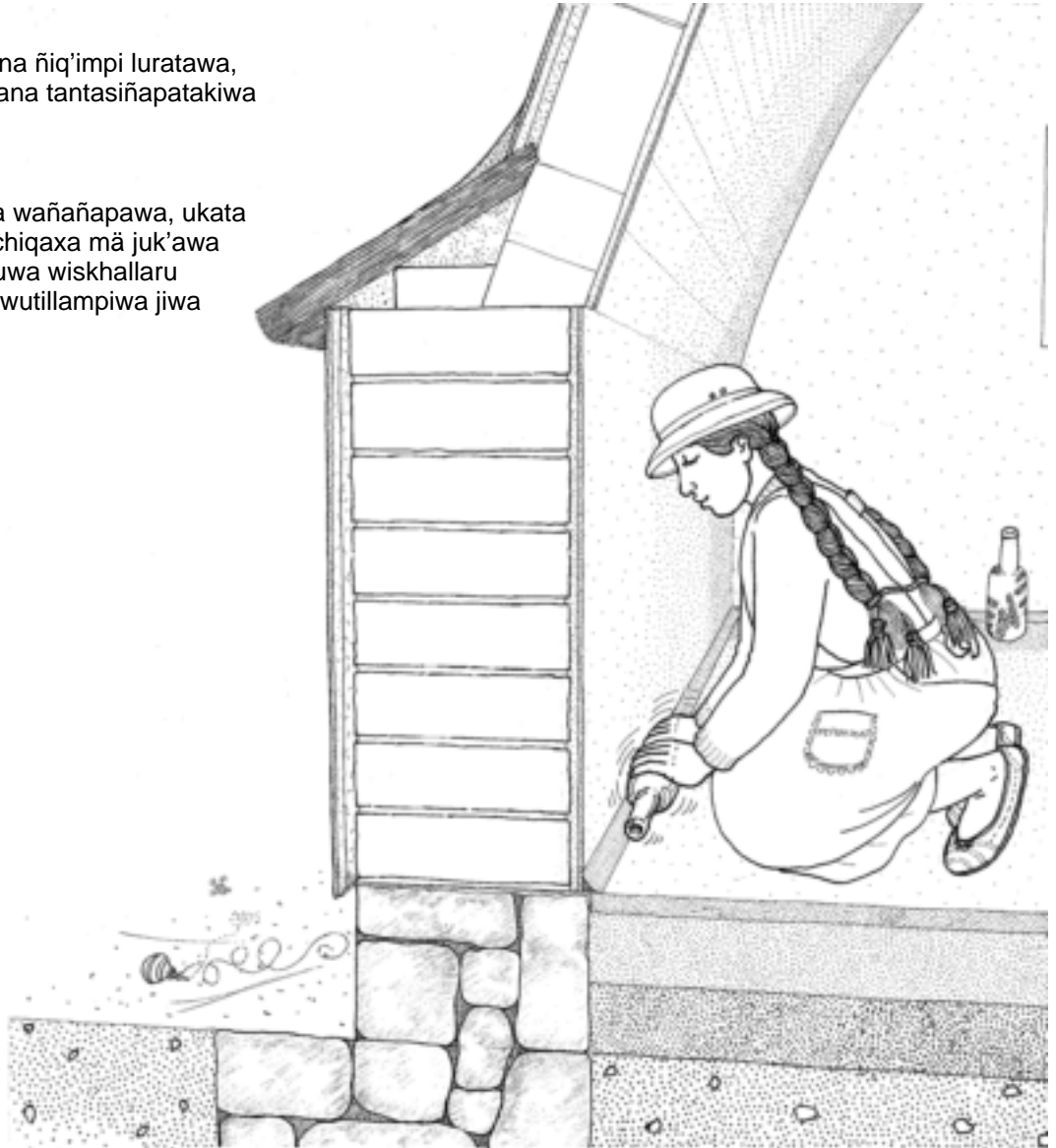


Sukalunaka

Sukaluxa pirqana aynacha chiqapana ñiq'impï luratawa, ukaxa jani t'unanaka uka iskinanakana tantasiñapatakiwa aski.

Sukalu lurañatakixa wakisiwa:

Uta pampasa pirqa lluch'itasa suma wañañapawa, ukata pirqampi uta pampampi jikiski uka chiqaxa mä juk'awa k'utsuña ukata ch'arañit'aña. Ukxaruwa wiskhallaru phalt'ata ñiq'iwa uchaña, ukata mä wutillampiwa jiwa muyuki uka ñiq'ixa tukuyaña.



Wayllaqa kurawanaka

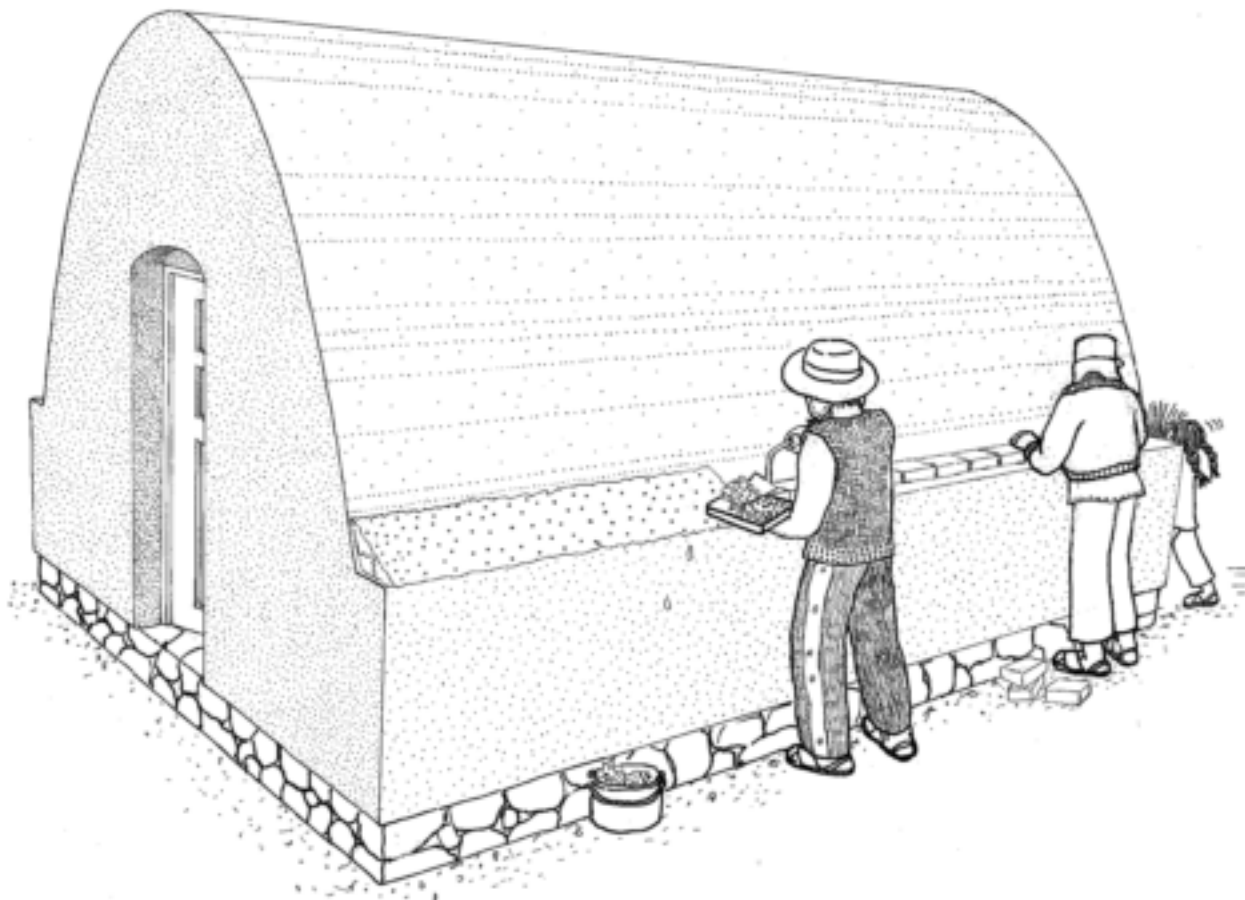
Wayllaqa kurawaxa jichhuta wakichatawa, pirqa patanaku ukhamaraki uta t'uxu manqharu kunawa uchaña.

Wayllaqa kurawaxa pirqanaka jallu umata, chhijchita jani ukaxa khunu umata jark'aqañatakiwa. Ukhamata uka pirqanakaxa jani yanqhachasiñapataliwa.

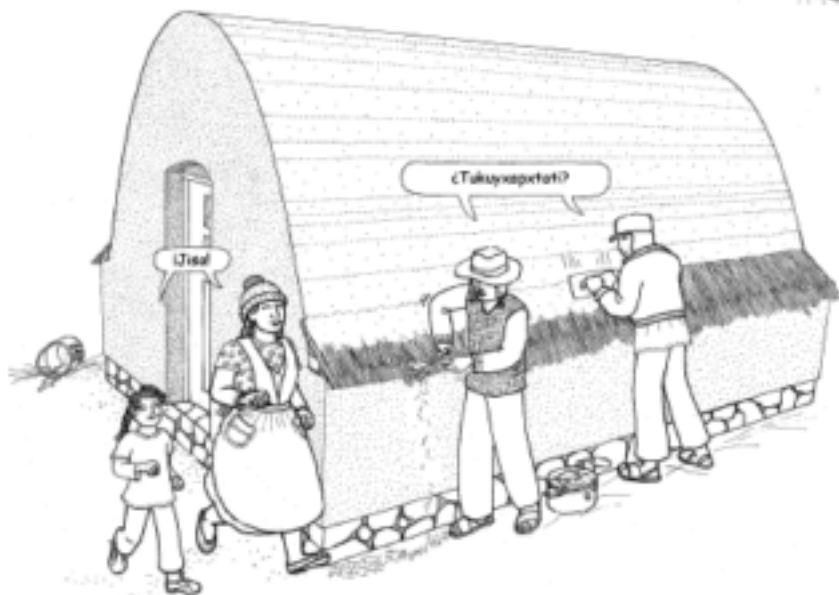
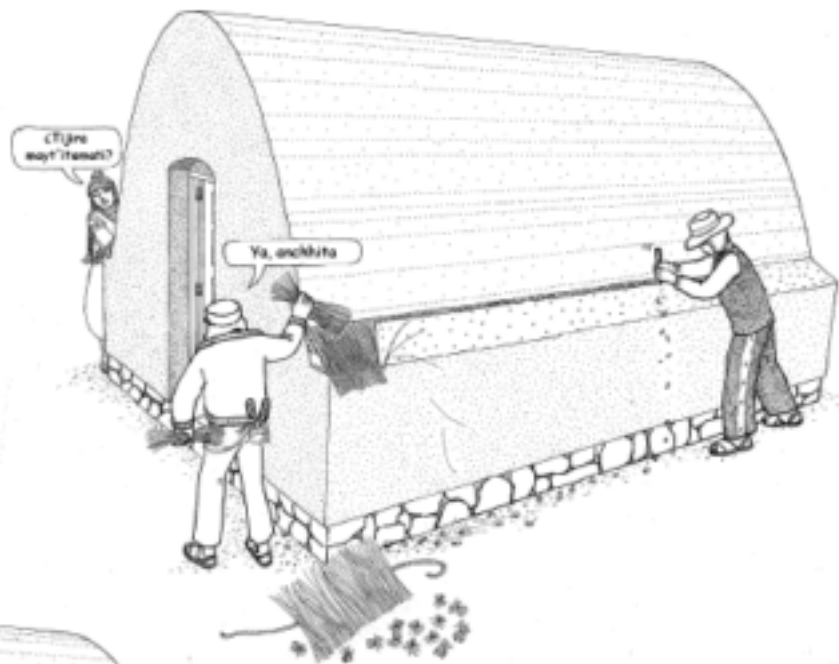
Wayllaqa kurawaxa jisk'a aruwimpi, ñiq'impipi jichhumpi kunawa luraña.

Kurawañatakixa wakisiwa:

1. Pirqa pataru ñiq'iwa uchaña, ukxaruxa jisk'a aruwinakaxa winkt'ata suk'xataña.
2. Ukata ñiq'impipiwa phuqhachaña, k'umphu pirqata aliqa pirqanaka tuqiru, ukaxa jiwa alt'atañapakiwa.



3. Alt'ata chiqampi k'umphu pirqa chiqampi jiskiskisa ukhaxa mä jisk'a wiskhalla p'iyawa k'utsuña, ukharuwa jichhuxa kurawataki mantaña.
4. ñiq'impi jani saphini suma suk'st'ata jichhumpiwa, uka jisk'a p'iyata qalltasa uka alt'ata pirqaru kurawxataña.



5. Kurawpata ñiq'ixa palanchampiwa suma llusk'aki khushkachaña, jani unxtkiri tukuyaña. Taqi tuqiwa suma ñiq'impi palanchampi phuqhachaña.
6. Jilarata jichhuñakaxa tijirampiwa khuchhuraña.

T'uxuna kurawapa lurañatakixa wakisiwa:

1. T'uxuna pampa aruwinakata chikatapata anqa tuqiruwa mä aruwixa jiwa alt'ataki k'uthaqaña. Ukharuwa kurawaxa sarxatañapa.
2. Jani saphini jisk'a chinunaka jichhuwa (niya 7 cm. tupuni) ñiq'impí kittasa ukachiqaru uchaña.



3. Ñiq'iwa ch'amampi uka kurawa pataru uchaña. ukata phurtachumpiwa suma khuskhachaña.



4. Uka kurawa pataru ñiq'iwa uchaña, ukata ch'amampiwa limt'aña, mä khuskhaki suma llusk'aptayañataki.

Utjipanxa wayllaqa kurawxa aliqa gambote läriillumpi simintupi luratarakispawa. Läriilluxa winkt'ata mä juk'a alt'atawa uchaña.

Uka wakichata ñiq'ixa juk'ampi ch'ullqhiñapatakixa asnu phurumpi, alkitaranampi, q'añu asiytimpi jani ukaxa linasa asiytimpisa yapt'araksnawa.



Karpintiriya

Ukanakaxa punkumpi t'uxunakampiwa, lawata luratawa jani ukaxa simintumpita jirumpita wakichatawa. Uknäma uta manta misttanxa, ukhamaraki anqarusa uñtastanxa.

Laq'a Utana anqäxa pirqapsa manqhäxa pirqanakapsa janira ñiq'impï suma lluch'irkasawa ukanakaxa uchaña.

Wakichata karpintiriya

Ukaxa t'uxutakiwa wakichata, lawa lantixa simintumpita jirumpita luratawa, (0.29 x 0.29 m) tupuniwa.

T'uxutakixa 9 kajunjatjama luratawa, kimsata kimsata siqt'asawa uchaña.

Uka t'uxutaki wakichata uchañatakixa wakisiwa:

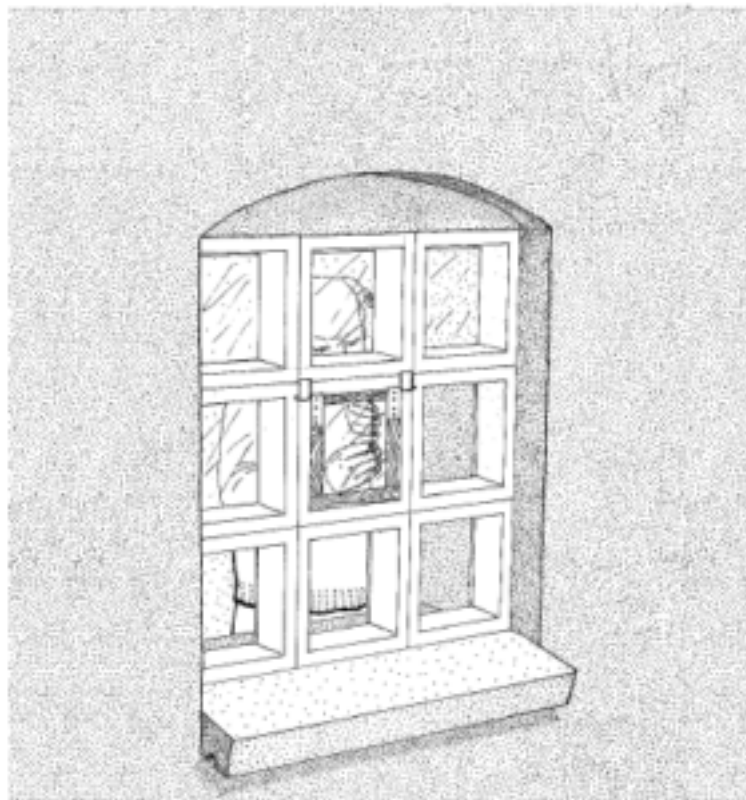
1. Maya tupu simintumpi 5 tupu ch'allampiwa t'uxunaka utt'ayañatakixa misklaxa wakichaña, uka wakichata simintuxa t'uxutaki jaytata pamparuwa uchaña, ukxaruwa may'iri siqi t'uxuxa uchaña, mä siqixa kimsa jisk'a t'uxuniwa. Ukata alayaru uñtata juntanakaxa simintumpirakiwa phunqhachaña.
2. Aka patxaru wakichata t'uxunakana jisk'a larqaparuxa 6 mm tupuni jurita lurata warillawa uchaña. Ukaxa simintumpiwa lluch'it'aña, ukaxa jiruxa, pirqaru lluch'inatata chhaqhantañapatakixa, mä 5 cm tupuwa paypachatuqiru jiläña.



3. Ukxaruxa payiri siqiwa uchañaraki, uka kikparaki yaqha jiru warillawa uka t'uxunakana jisk'a larqanakaparu uchaña, ukata simintupi pirqaru lluch'intaña.



4. Kimsiri siqimpiwa uta t'uxuxa phuqhachaña, ukata umralampita t'uxumpita utjiri phusaxa mä jisk'a aruwimpiwa chikataypixa phuqhachaña, thiyanakaparakı ñiq'impı, manqhatsa anqatsa ñiq'impı suma khuskhachaña.
5. Ukata Lak'a Utana uka chiqanaka manqhasa anqasa suma ñiq'impı lluch'irasına tukuyjasaxa, lawata lurata t'uxurakiwa pallalla qhispinakani uskxaña.





Punku marku uchañatakixa wakisiwa:

1. Marku alaytuqirusa, ch'iqa tuqirusa, kupi tuqirusa 4" tupuni kalawuwa mä jilarata liq'intaña, ukanakaxa pirqaru suma katxaruñatakiwa aski.
2. Punku uskuñatakixa kalawunaka mantañapatakixa pirqawa mä juk'a k'utsuña, aynachtuqirusa uka kikparakiwa punku suma sayantañapataki pirqaxa k'utsuña.



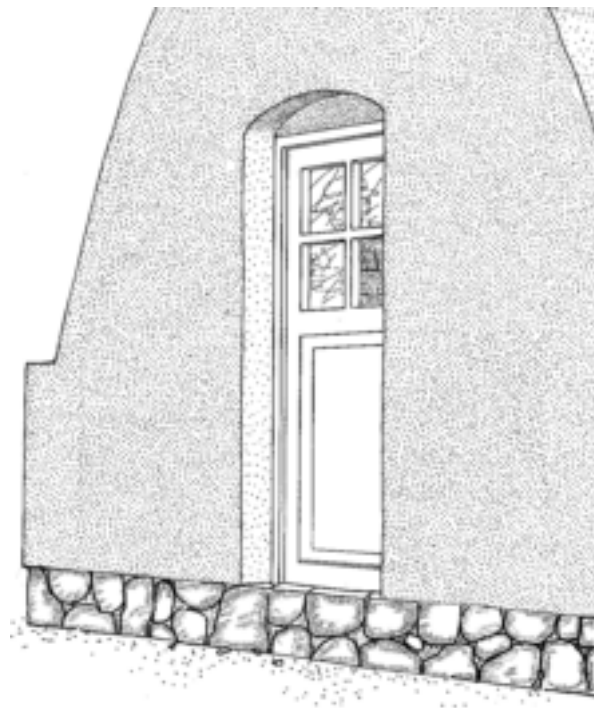
3. Punkuxa pulumart'asa niwilt'asawa uchaña.
4. Ukata p'iyana chhaqhtayañatakisa punku suma katuñapatakisa pachachampiwa suma lluch'irxaña.



Punku jist'añaxa Laq'a Uta suma q'umachaña tukuyasawa uskxaña.

Punku jist'aña uskuñatakixa wakisiwa:

1. Punku jist'añaxa suma sipillsusawa markuparu waykatxaña, punkuxa suma jist'kattañapasa jist'aqtañapasa.
2. Punku suma uchasaxa turnillunakampiwa markuru sumraki q'iwkatxaña.



Saminchaña

Saminchirixa Laq'a Uta pirqanaksa k'umphu pirqsa jiwa samini lurañatakiwa, ukaxa ñiq'impí lluch'irasina suma tukuyasawa saminchaña.

Saminchirix a q'atawimpi umampiwa luraña.

Laq'a Uta manqha pirqanaka saminchañatakixa wakisiwa:

1. Saminchaña umaxa akhamawa wakichaña:
 - 2,5 kilu q'atawi
 - 10 litru umaMä tunka uruwa uka saminchiri umaxa imaña.
2. Pirqa lluch'itaxa kawkhanakaya jani sumächi ukkhanakaxa suma khuskhacht'aña. Wakischi ukaxa lijampi phiskhsusa, jani ukaxa masillampisa p'iyanakaru jawt'asa pirqanaka khuskhacharaksnawa.
3. Pirqanakarusa k'umphu pirqarusa saminchiri umaxa walja kutiwa jawq'suña, maya saminchasaxa wañt'añapkama mä juk'a suyt'añawa, wañt'ipana mayampi jawq'suñarakiki, munatasa samiru puriñkama.



Yaqha luräwinaka

Asira

Uta q'umachaña tukuyasaxa asira sata mä jisk'a thakhiwa uta muytpachana luraña, uka jisk'a thakhixa mä 30 cm pampa tupuniñapawa.

Aka asiraxa uta simintunaka uma ch'ach'irinakata jark'aqañatakiwa.

Uka asiraxa qalampi suk'sutañapawa, uta pirqata qalltasa, uma jalaqañapataki, anqatuqiru mä juk'a alt'ata lurañawa.

Uka asira tukuyaruxa uma irpaña mä jisk'a larqa qalata luraraksnawa.

Q'ala q'umachäwi

Laq'a Uta q'umachaña tukuyasaxa q'ala lawanakasa, t'unanakasa, k'urphanakasa ukhamaraki jilt'iri matiryalanakasa anqaru apsxaña, ukata q'ala suma pichsxaña.

T'uxu pallalla qhispinakasa punkusa suma jariqxaña.

Janira utjiri mantkasaxa uta manqhaxa suma q'umaki pichsxatañapawa.

Ikiña

Ikiña luraraksnawa, ukatakixa pampaxa aruwimpita patxaxa lawampitawa luraña.

Uka lurañatakixa wakisiwa:

1. Qhipäxa pirqampiru trombe pirqani jach'a pirqampiru k'uchunchatawa mä wiskhälla pampaxa aruwinakata priqaña. Ukaxa anchuruxa 0.90 m tupini sayt'ururaki 1.90 m tupuniwa kimsa siqi aruwimpi pamparu tilt'aña.
2. Uka patxaruxa tawlanaka jani ukaxa tawata jiwaki ikiña kikpa aythapitawa uskuña, ukxaruxa kulchunawa uskxañaraki.

Isi imaña

Isi imañatakixa jisk'a aruwinakata luraraksnawa, akaxa Laq'a Utaru mantañaxa uka k'uchunkañapawa.

Uka lurañatakixa wakisiwa:

1. Uta pamparuxa anchuta 0.8 m tupuni sayt'ururaki 0.95 m tupuni wiskhällpacha pä siqi jisk'a aruwinakampiwa tilt'aña. Ukaxa uta nayraxa pirqampiru arimatawa luraña.
2. Uka wiskhällxaruxa, isi imañatakixa, mä jisk'a pirqawa jisk'a aruwinakampi alayaru waytaña.
3. Mä 1.60 m tupuni jisk'a pirqaytkasaxa mä juch'uspacha lawata uka jisk'a pirqana chika taypipampiru Laq'a Utana jach'a pirqapampiru lluch'intata uchaña, ukaxa isinaka.



AHSA - Asentamientos

Humanos Sostenibles en el Altiplano, es un proyecto que ejecuta construcciones sostenibles y planificación de desarrollo. Es realizado en colaboración entre la ONG boliviana SAHB y la ONG danesa DIB. El proyecto es financiado por la Secretaría de Desarrollo del Gobierno de Dinamarca–DANIDA.

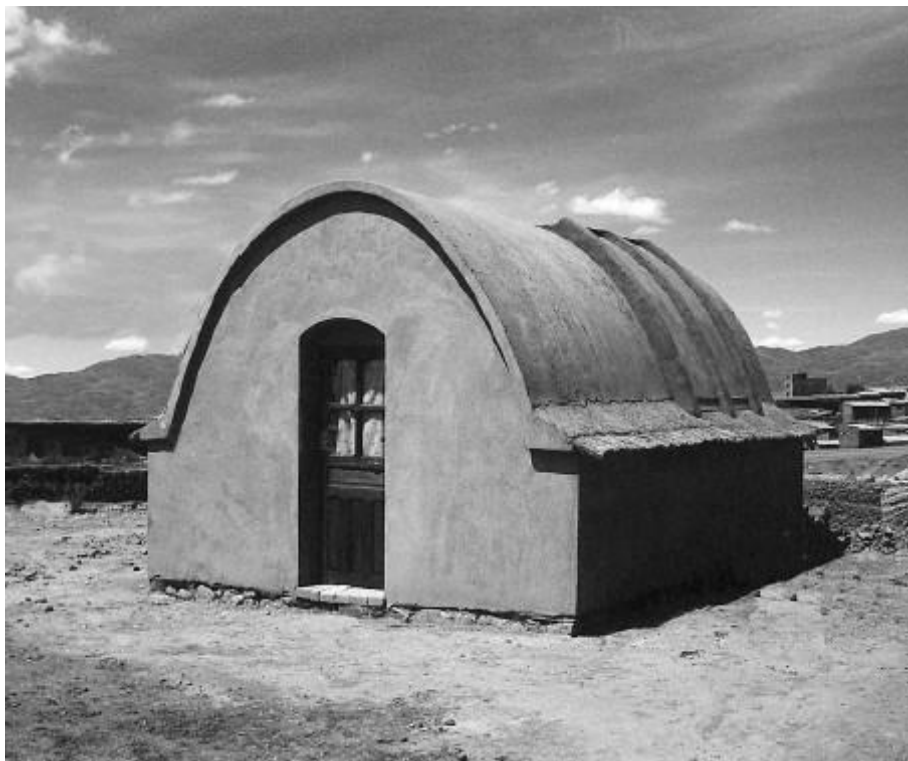
Para mayor información dirigirse a:



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