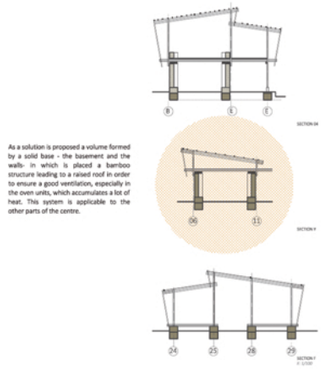
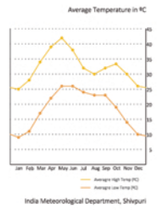


As a solution is proposed a volume formed by a solid base - the basement and the walls- in which is placed a bamboo structure leading to a raised roof in order to ensure a good ventilation, especially in the oven units, which accumulates a lot of heat. This system is applicable to the other parts of the centre.

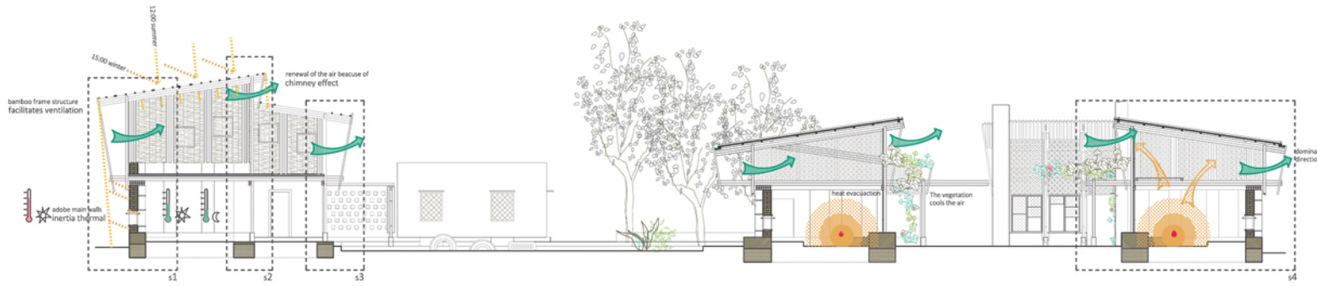
SUBTROPICAL CLIMATE

SUMMER: April-June; **30-43ºC**
MONZOON: July-September; **24-34ºC**
WINTER: October-March; **14-27ºC**

Shivpuri has a cool and dry climate .The hot weather starts from about the middle of April and lasts up to mid of May. During this period Shivpuri remains hot with the average high of 40°C while the low stays around 30°C. By the end of June or by the 1st week of July, the monsoon breaks and the weather becomes cool, through humid. The rains are over generally by end of September. The winter months, on the other hand, remains cool and comfortable enough for the people.

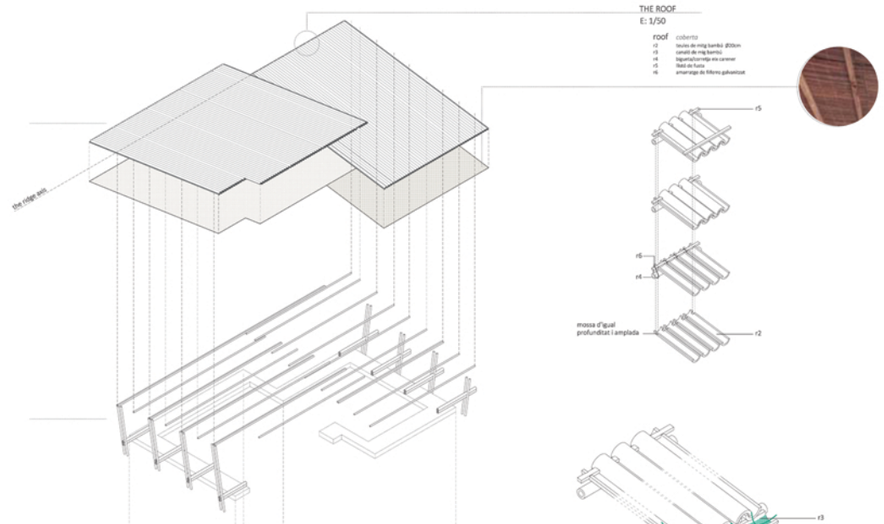


India Meteorological Department, Shivpuri



CLIMATIC PARAMETERS
E: 1/100

THE ROOF
E: 1/50



THE ROOF
LA COBERTA

THE JOISTS AND TIES
LES BIGUETES I TIRANTS

THE BEAMS AND PILLARS
LES BIGUES I PILARS

THE BAMBOO FRAME STRUCTURE
L'ESTRUCTURA DE BAMBÚ

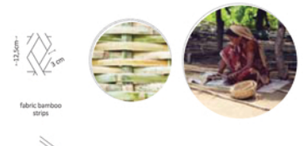
THE STRAP
EL CÈRCOL

THE WALL
EL MUR

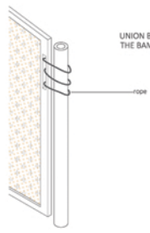
THE FOUNDATIONS AND THE BASE
ELS FONAMENTS I EL SOCOL

THE OVEN, THE CHEMENEY AND THE BENCH
EL FORN, LA XEMENEIA I EL BANC

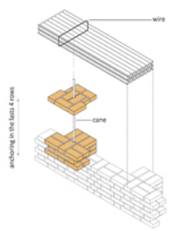
THE ENCLOSURE



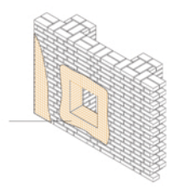
UNION BETWEEN THE CARPRENTRY AND THE BAMBOO PILLARS



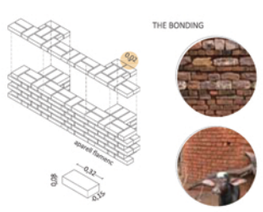
UNION BETWEEN THE WALL AND THE STRAP

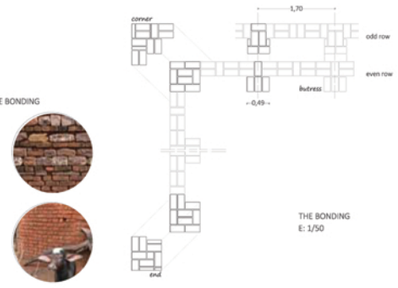


REINFORCMENTS IN CORNERS AND OPPENINGS

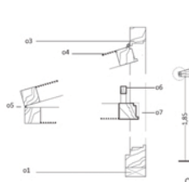


THE BONDING



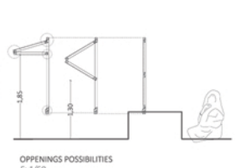


THE BONDING
E: 1/50

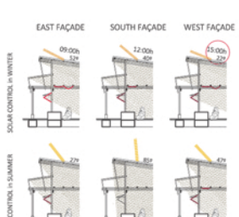


CARPENTRY DETAIL
E: 1/10

oppenings *obertures*
o1 premarc de fusta, 4x7 cm
o3 carpinteria de fusta de *sheesham*
o5 frontissa
o4 finestra abatible amb acarat de teixit de bambú.
o7 massa per a ancorar de finestra



OPPENINGS POSSIBILITIES
E: 1/50



E: 1/200

TECHNICAL ESPECIFICATIONS
ESPECIFICACIONS TÈCNIQUES

roof *coberta*
r1 encanyissat de bambú
r2 teules de mitg bambú Ø30cm
r3 canaló de bambú Ø20cm
r4 bigueta eix carener

bamboo structure *estructura de bambú*
e1 taulell d'estoreta de bambú
e2 cèrcol compost de bambus lligats amb cordes
e3 biga doble bambú Ø10cm
e4 pilars bambú Ø10cm
e5 tirant bambú Ø8cm
e6 passador de fusta i corda d'amarratge
e7 triple biga de bambú Ø10cm
e8 llistó fusta per a la unió horitzontal de bambus
e9 bigueta/corrella de bambú Ø5cm
e10 jàssera d'ble de bambú Ø10cm

finishings *acabats*
f1 prestatgeries de fusta de *sheesham*
f2 carpinteria fixe de fusta sheesham
f3 panell teixit de bambú

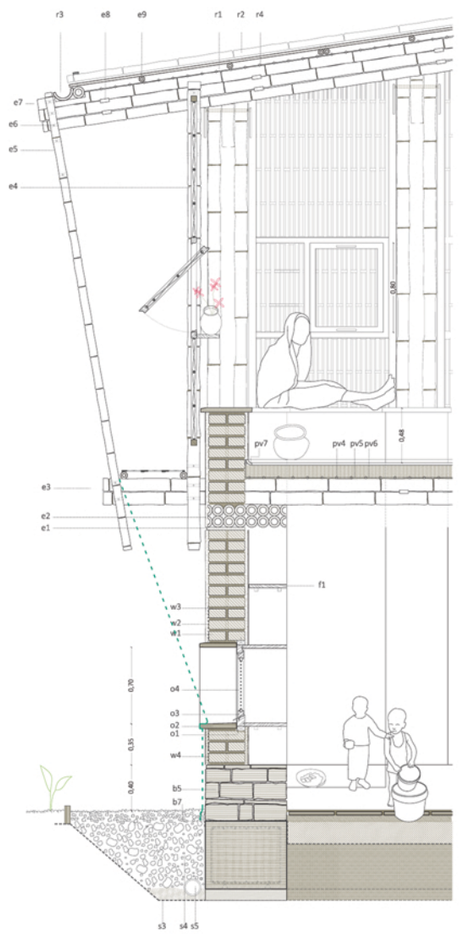
oppenings *obertures*
o1 premarc de fusta, 4x7 cm
o2 ampit, llinda i brancals de pedra local red sandstone
o3 carpinteria de fusta de *sheesham*
o4 finestra abatible, eix horitzontal amb acabat de teixit de bambú
o5 frontissa
o6 maneta de fusta de *sheesham*

wall *mur*
w1 tova de 15x32x8 cm
w2 arrebossat de ▯, 3cm
w3 junta de morter bals em ciment, 2cm
w4 malla de fibra de vidre

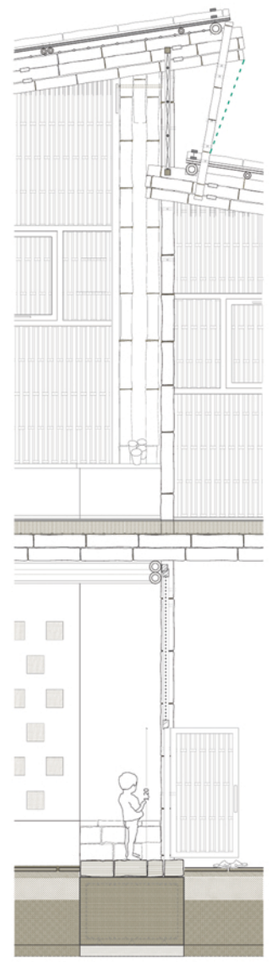
base *sòcol*
b1 formigó pobre de neteja
b2 falques de reciolament de la graella
b3 armat sabata correguda
b4 sabata correguda de formigó 72x60 cm
b5 sobreciment de pedra local red sandstone 72x60 cm
b6 sobreciment de formigó circular per encastament bambú, Ø15cm
b7 barrera contra la humitat, làmina de plàstic

pavement *paviment*
pv1 acabat de terra i formigó
pv2 pedra local, red sandstone [dimensions]
pv3 terra i formigó compactat
pv4 encanyissat de bambú
pv5 sorra fina compactada
pv6 sorra i ciment compactat
pv7 sòcol de bambú; ½ de bambú

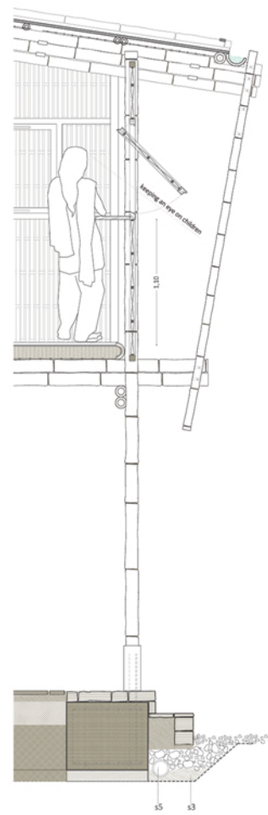
soil *terreny*
s1 terreny compactat; [cm]
s2 àrids i granulars compactats
s3 sorra fina compactada
s4 graves
s5 tub drenant



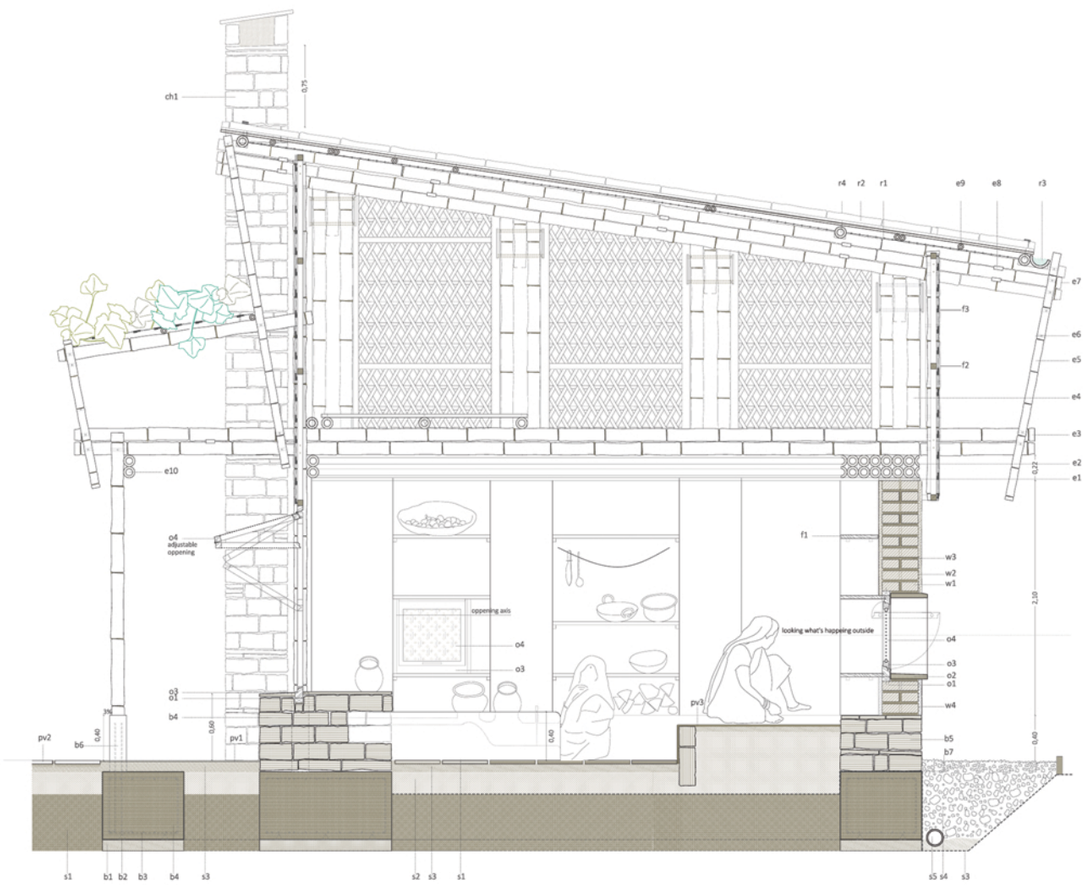
S1 *E: 1/20*



S2 *E: 1/20*



S3. CONSTRUCTIVE SECTION
E: 1/20



S4. CONSTRUCTIVE SECTION
E: 1/20