

Development Workshop

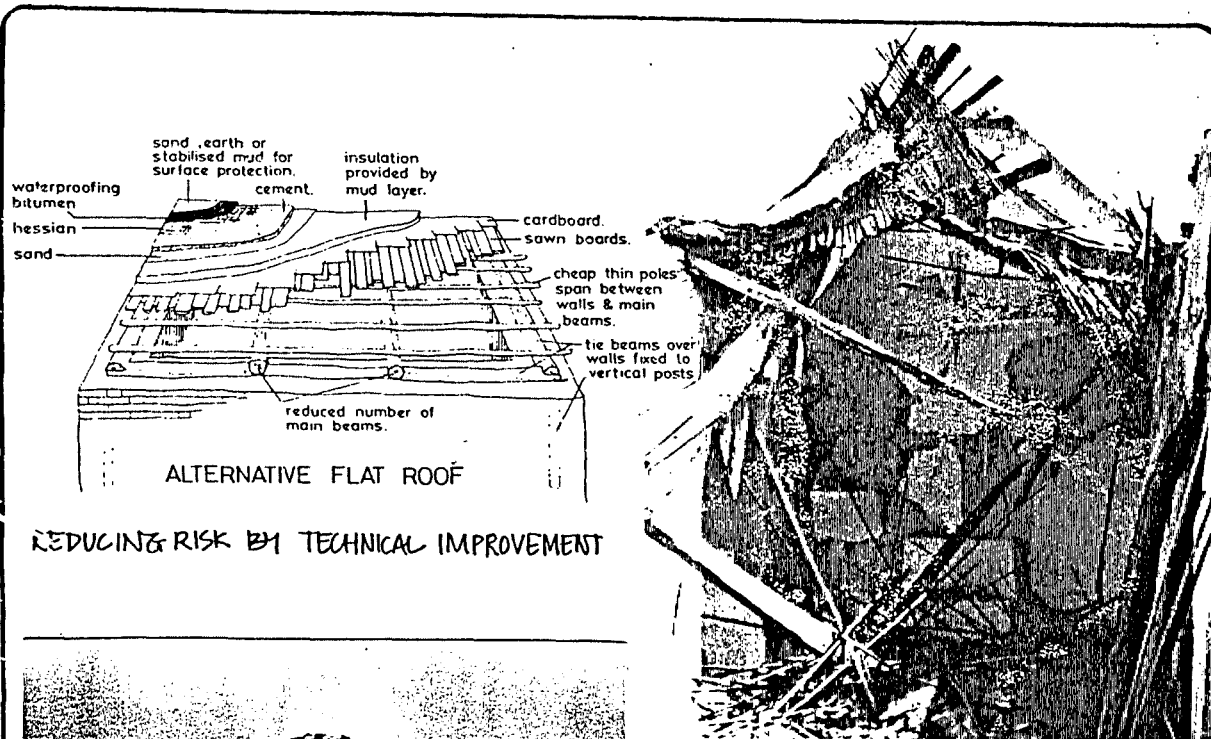
Box 133
238 Davenport Road
Toronto, Ontario
Canada M5R 1J6

project

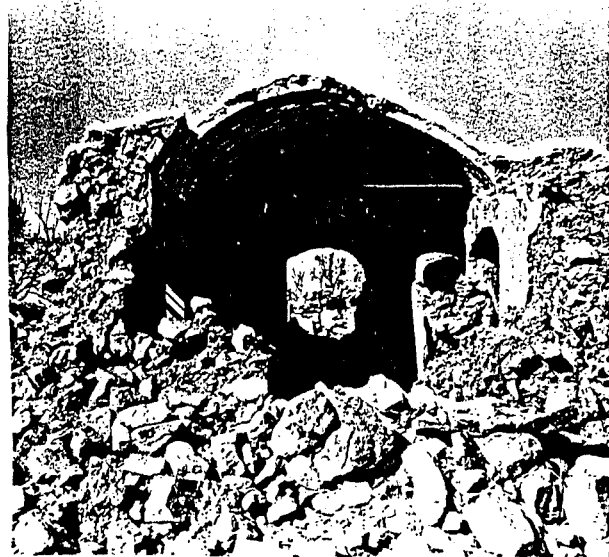
IRAN: Mobilising indigenous resources
for post earthquake reconstruction.

client

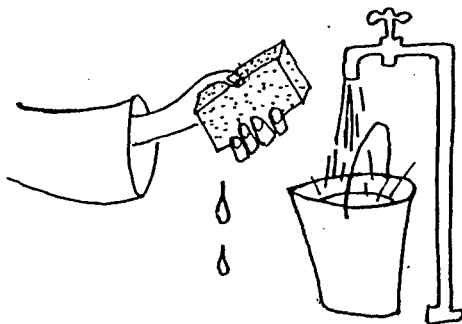
Centre for Endogenous Development Studies
Tehran, Iran.



REDUCING RISK BY TECHNICAL IMPROVEMENT



REDUCING RISK BY IMPROVING METHOD



Following the Earthquakes at Bandar Abbas and Zaranđ in 1977, Development Workshop carried out detailed surveys of the damaged and intact buildings in each area in order to assess where the weaknesses lay. Following these surveys DW prepared a programme for mobilising the local population so that they would be able to build in ways that would reduce the risk of building damage, whilst still using their locally available materials.

The programme was based on training; to improve the way in which building was already being done, often by explaining simple rules of good building practice; and by introducing certain innovations in building construction which would improve the strength of the building. The aim was to ensure that the users would have realistic access to all the materials required. Layout and location of openings was also covered.

Training programmes were done in Luristan and Yazd.

Follow up training was done in Luristan at the request of the builders who participated in the first training session.

Development Workshop

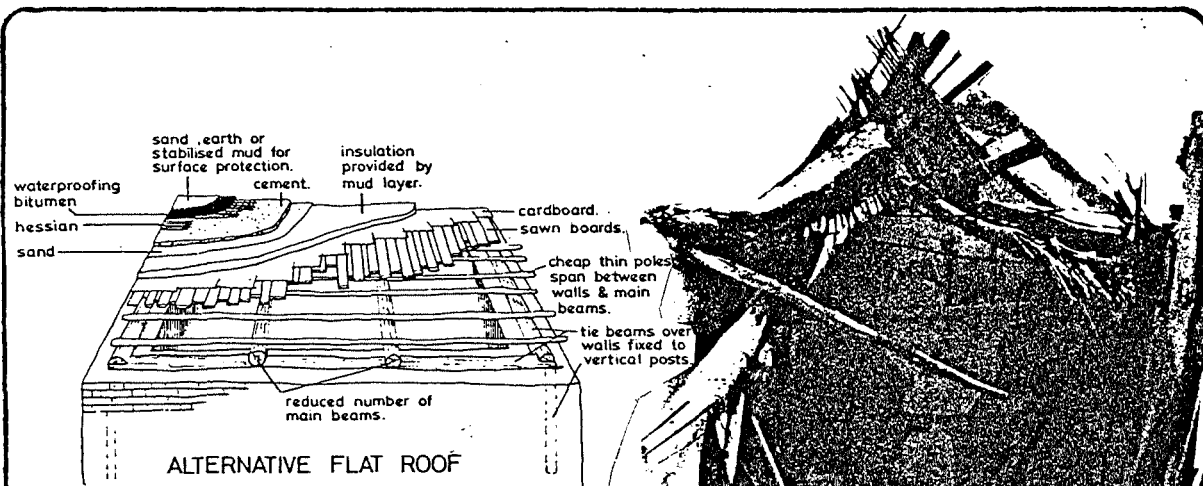
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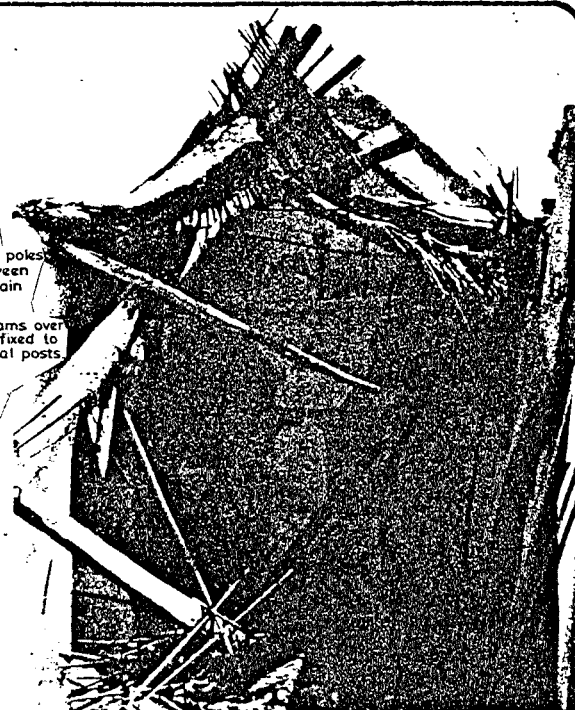
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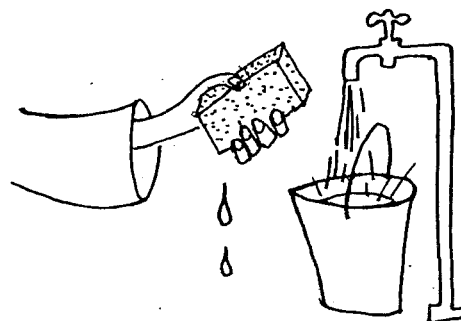
Centre for Endogenous Development Studies
Tehran, Iran.



REDUCING RISK BY TECHNICAL IMPROVEMENT



EARTHQUAKE DAMAGE OUTSIDE BANDAR ABBAS



REDUCING RISK BY IMPROVING METHOD

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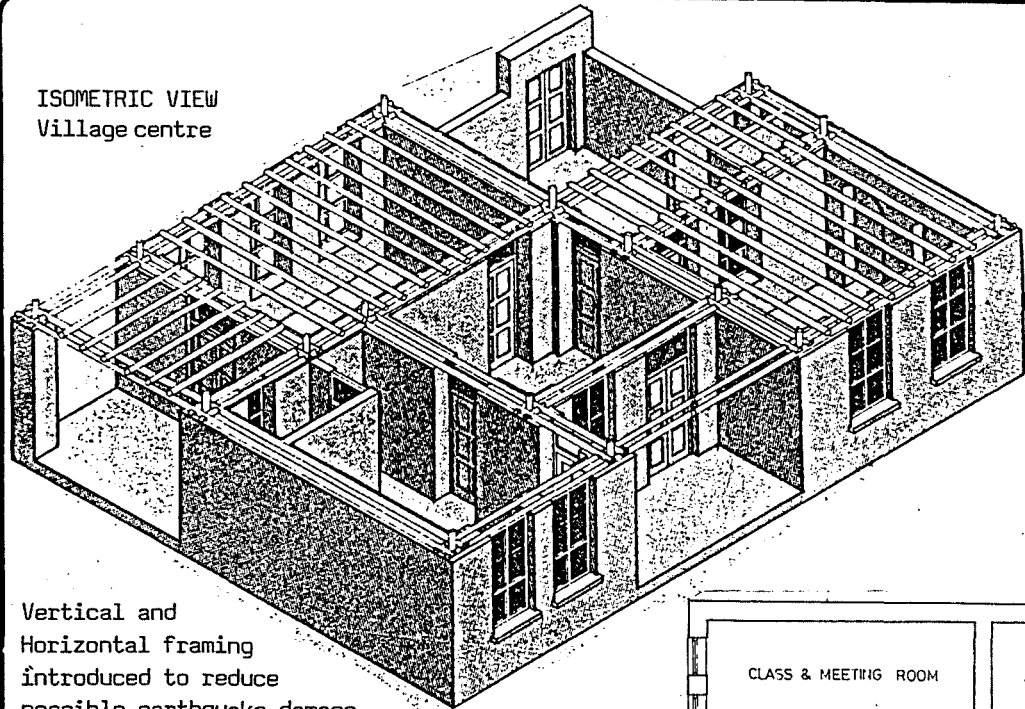
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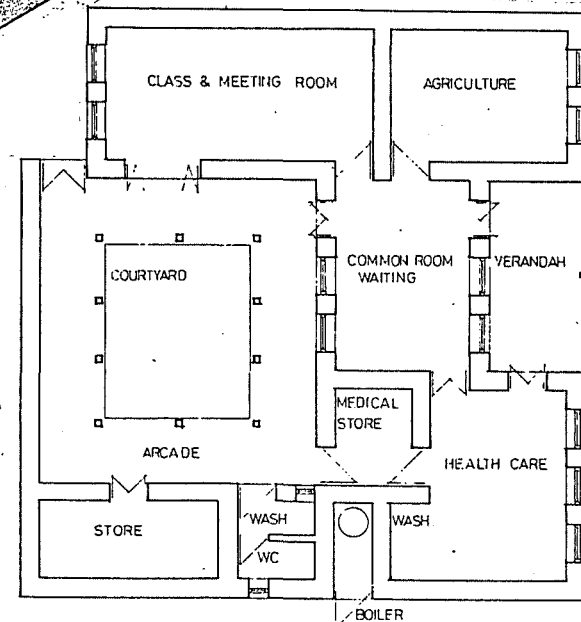
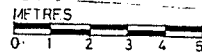
VILLAGE CENTRES FOR RURAL DEVELOPMENT
Building for earthquake mitigation, Iran
S.I.D.P.

ISOMETRIC VIEW
Village centre



Vertical and
Horizontal framing
introduced to reduce
possible earthquake damage.

PLAN
Typical village
centre



To support the activities of integrated rural development in the Selseleh region of Iran, Development Workshop designed and built 11 village development centres, to house the activities of "front-line workers" engaged in village agricultural and medical assistance, and in education, including literacy.

Some of the centres included accomodation for the village staff. All were built with local materials, hence some in mud brick, some with fired bricks, some with stone.

The buildings served as oppurtunities to demonstrate improved building techniques particularly for the introduction of earthquake-resistant building techniques for risk mitigation.

The local communities participated in the construction of the centres and were thus able to transfer their experiance into their home-building.

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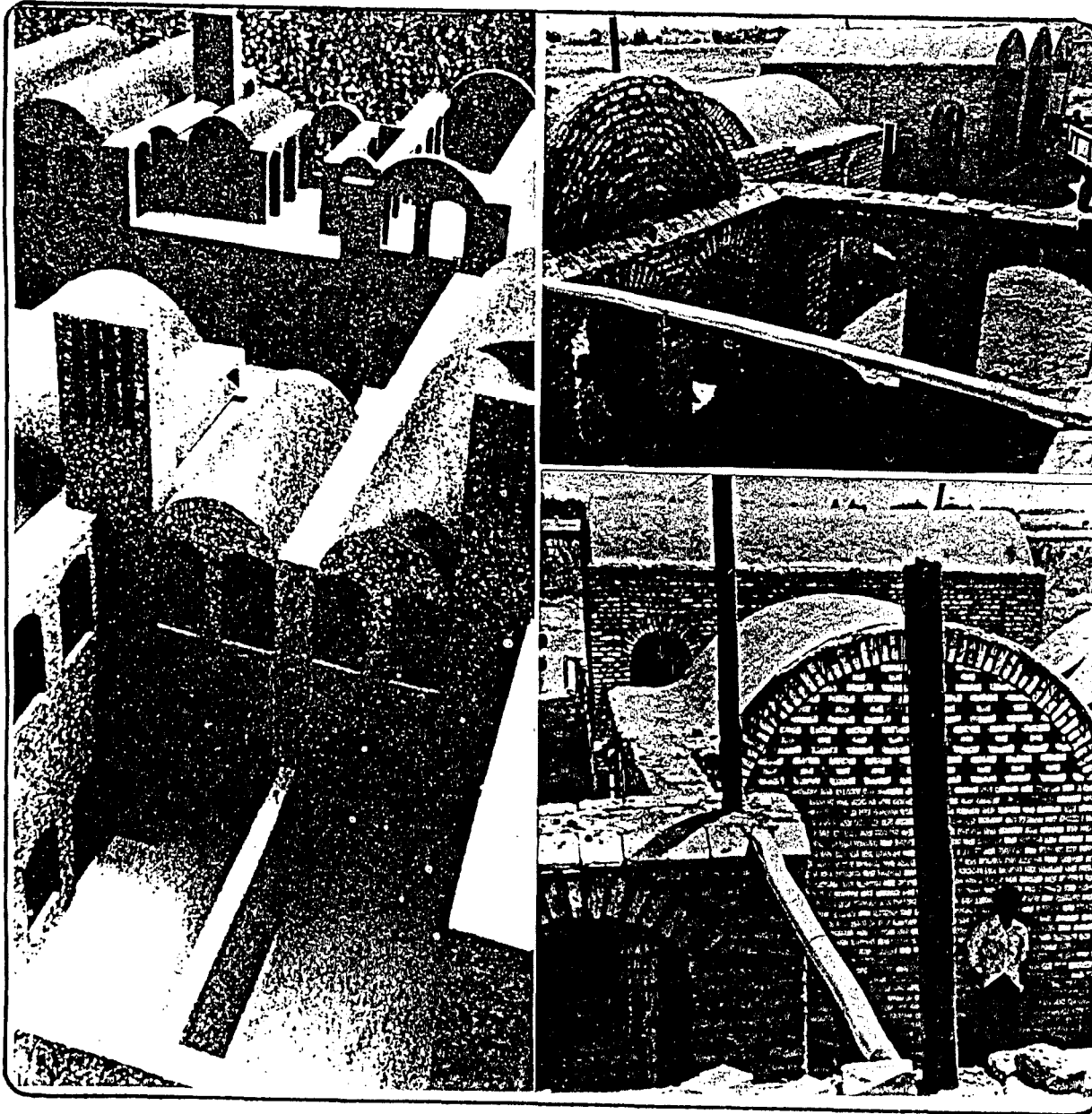
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LOW-COST HOUSING : earthquake-resistant techniques; mud-brick & vault construction

client

S.I.D.P. Luristan, Iran.



In 1977, prototype low-cost housing units were designed by Development Workshop. They used stabilised mud bricks, vaulted roofs, and incorporated an earthquake resistant framework.

The low-rise vaults enabled the continuattion of the buildings to a second stirey.

Pilot construction of the housing was carried out at Alashtar, Luristan.