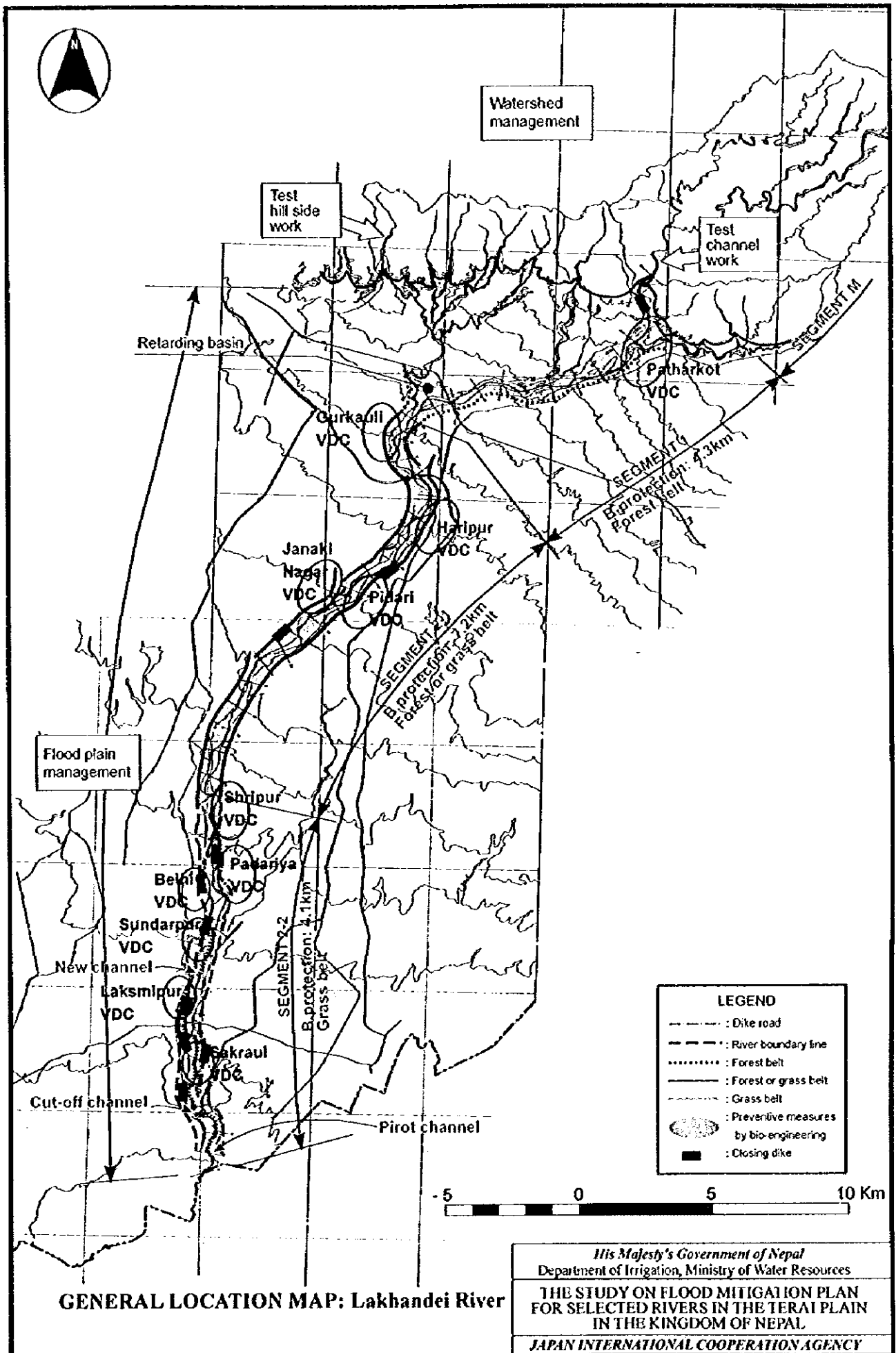
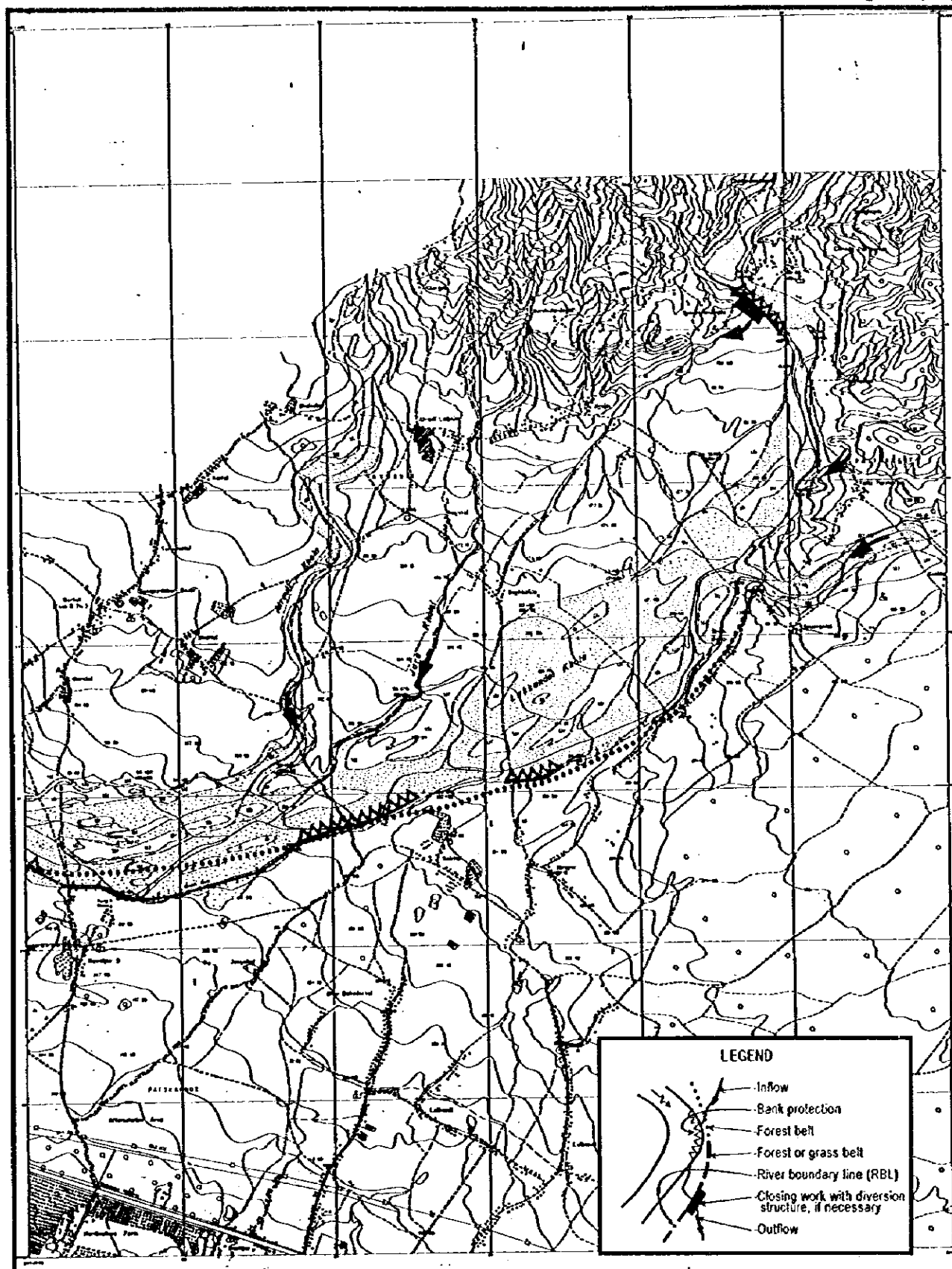


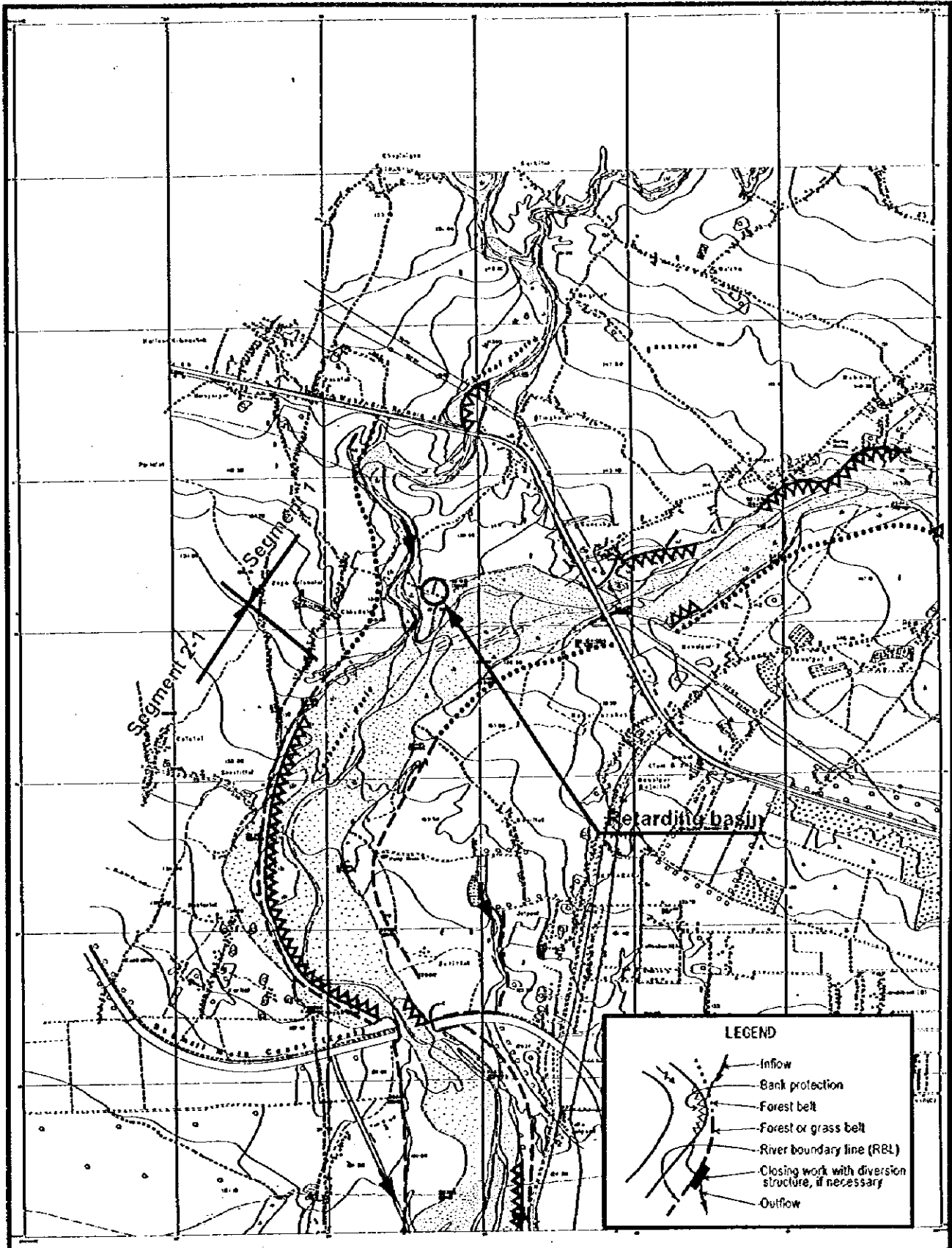
Fig. 7.1





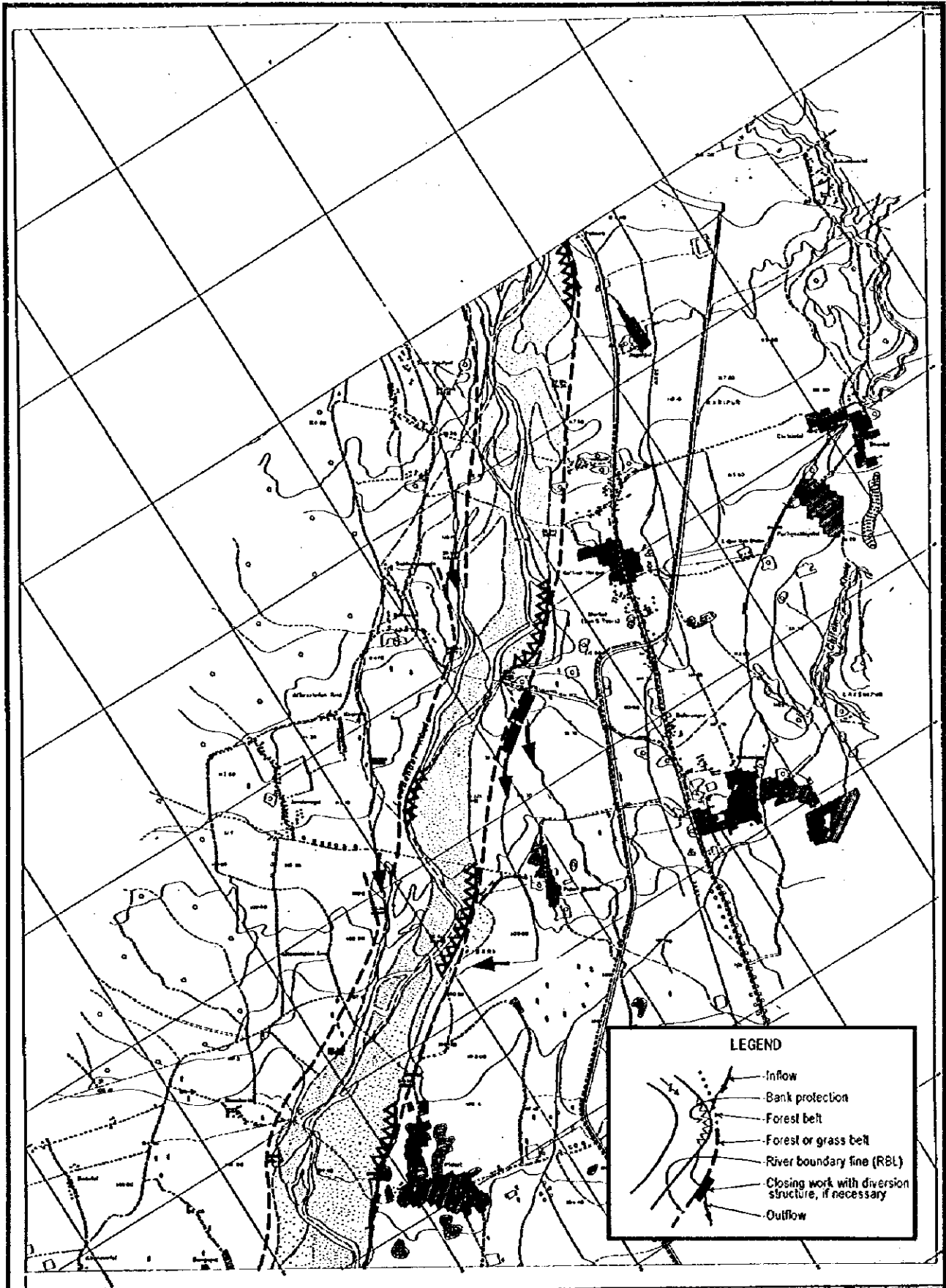
**LAYOUT PLAN FOR FLOOD MITIGATION
Lakhandei River (1/6)**

His Majesty's Government of Nepal
 Department of Irrigation, Ministry of Water Resources
**THE STUDY ON FLOOD MITIGATION PLAN
 FOR SELECTED RIVERS IN THE TERAI PLAIN
 IN THE KINGDOM OF NEPAL**
 JAPAN INTERNATIONAL COOPERATION AGENCY



**LAYOUT PLAN FOR FLOOD MITIGATION
Lakhandehi River (2/6)**

His Majesty's Government of Nepal
 Department of Irrigation, Ministry of Water Resources
**THE STUDY ON FLOOD MITIGATION PLAN
 FOR SELECTED RIVERS IN THE TERAI PLAIN
 IN THE KINGDOM OF NEPAL**
JAPAN INTERNATIONAL COOPERATION AGENCY

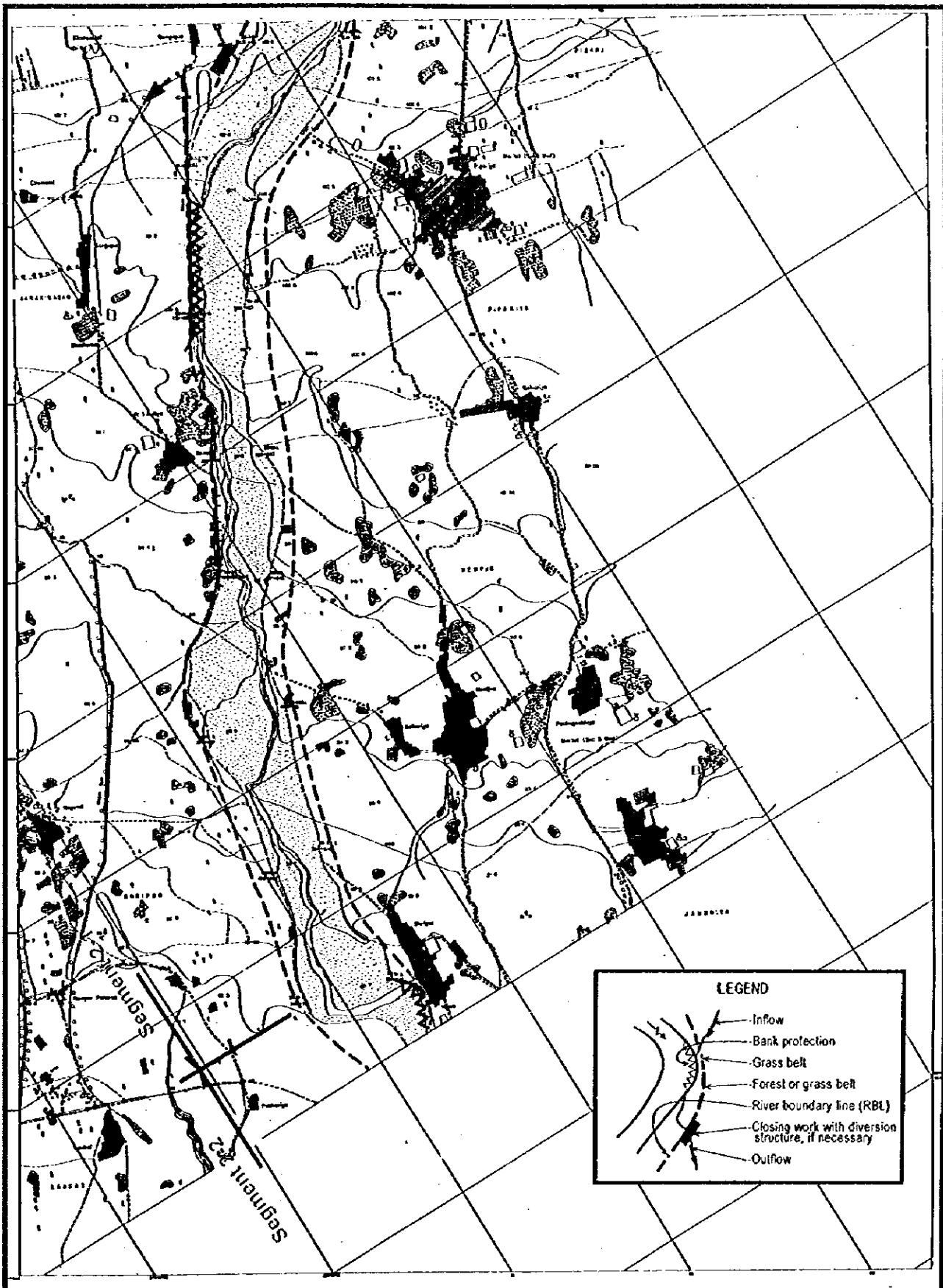


LEGEND

- Inflow
- Bank protection
- Forest belt
- Forest or grass belt
- River boundary line (RBL)
- Closing work with diversion structure, if necessary
- Outflow

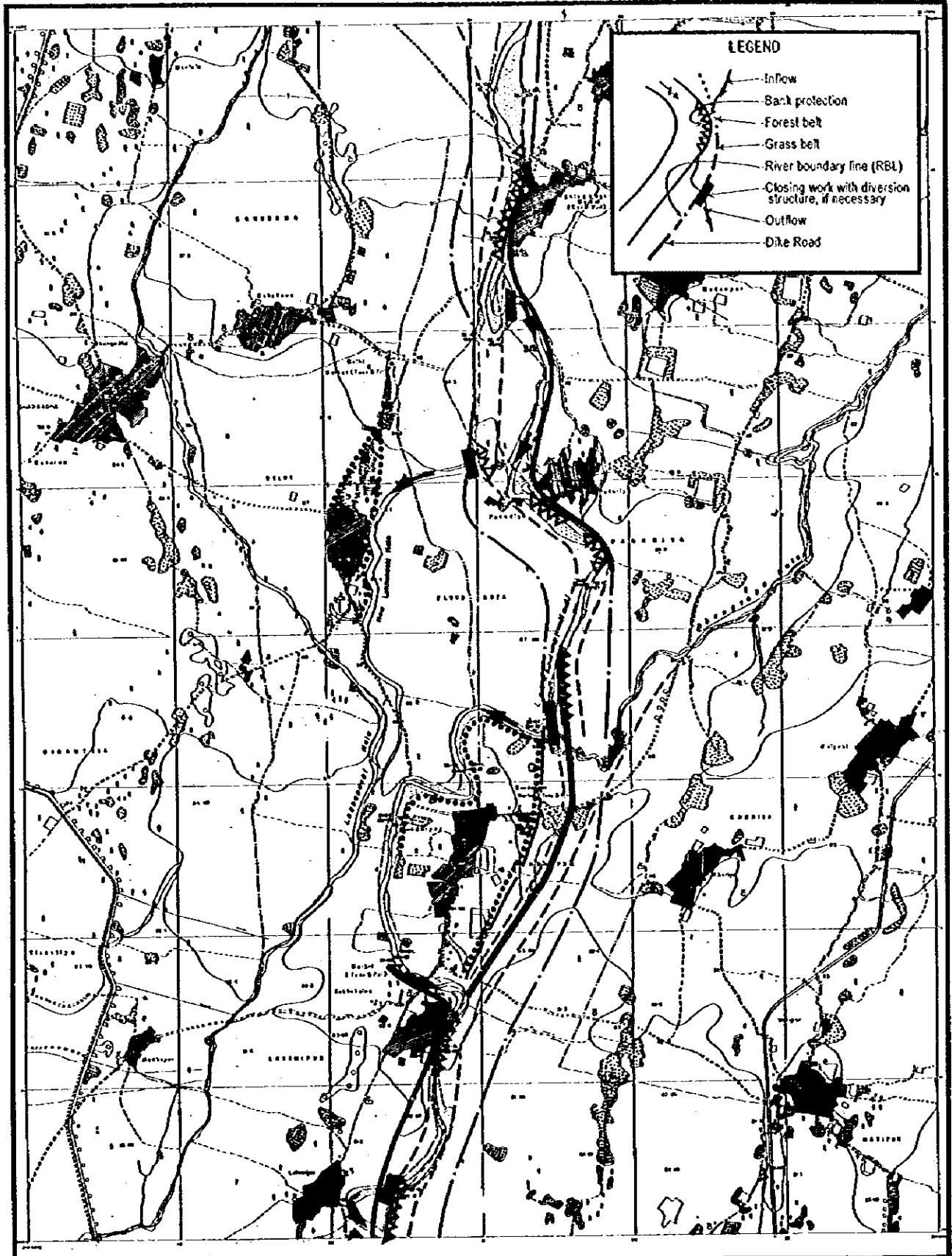
**LAYOUT PLAN FOR FLOOD MITIGATION
Lakhandei River(3/6)**

His Majesty's Government of Nepal
 Department of Irrigation, Ministry of Water Resources
**THE STUDY ON FLOOD MITIGATION PLAN
 FOR SELECTED RIVERS IN THE TERAI PLAIN
 IN THE KINGDOM OF NEPAL**
JAPAN INTERNATIONAL COOPERATION AGENCY



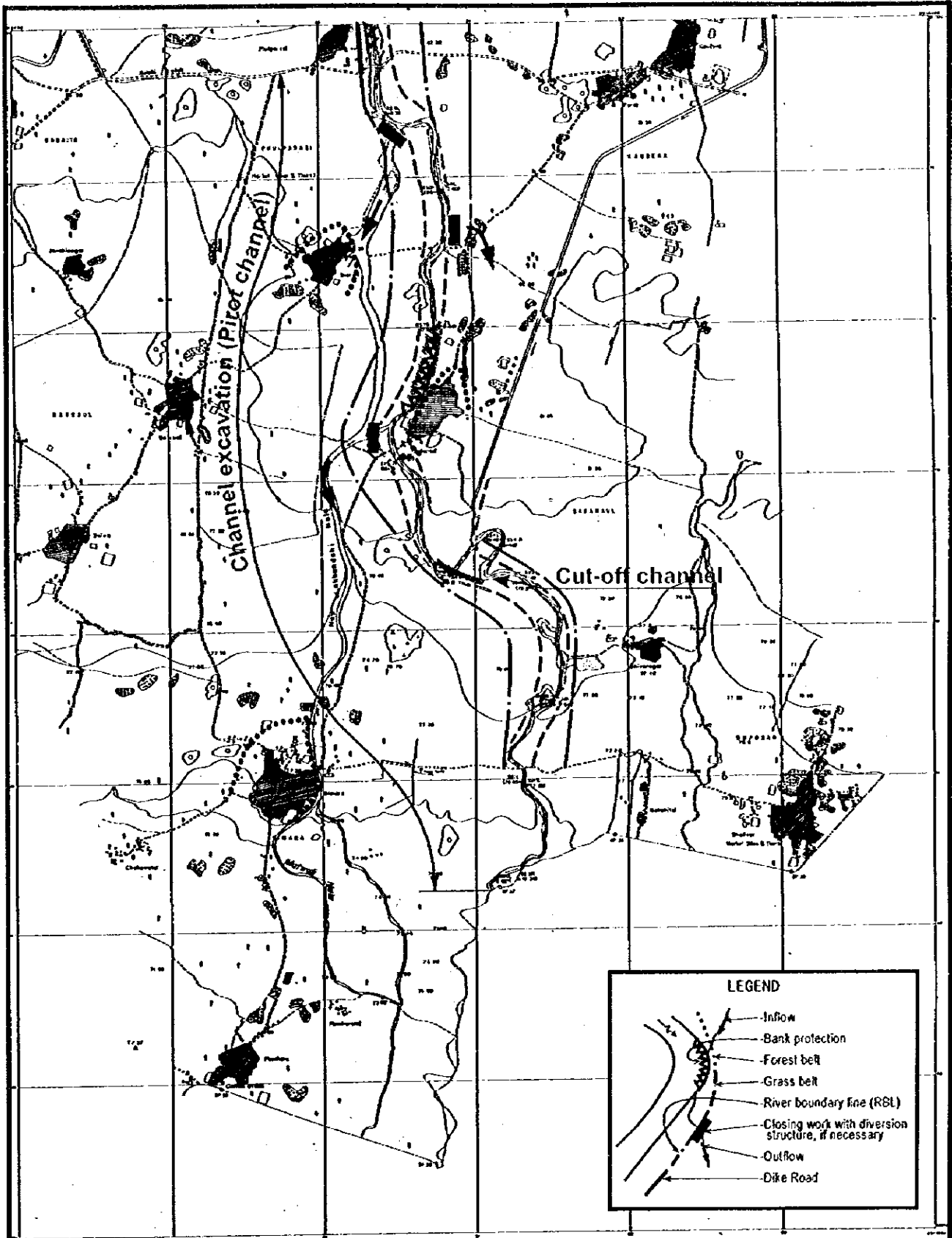
**LAYOUT PLAN FOR FLOOD MITIGATION
Lakhandehi River (4/6)**

His Majesty's Government of Nepal
 Department of Irrigation, Ministry of Water Resources
**THE STUDY ON FLOOD MITIGATION PLAN
 FOR SELECTED RIVERS IN THE TERAI PLAIN
 IN THE KINGDOM OF NEPAL**
JAPAN INTERNATIONAL COOPERATION AGENCY



**LAYOUT PLAN FOR FLOOD MITIGATION
Lakhandei River (5/6)**

His Majesty's Government of Nepal
 Department of Irrigation, Ministry of Water Resources
**THE STUDY ON FLOOD MITIGATION PLAN
 FOR SELECTED RIVERS IN THE TERAI PLAIN
 IN THE KINGDOM OF NEPAL**
JAPAN INTERNATIONAL COOPERATION AGENCY

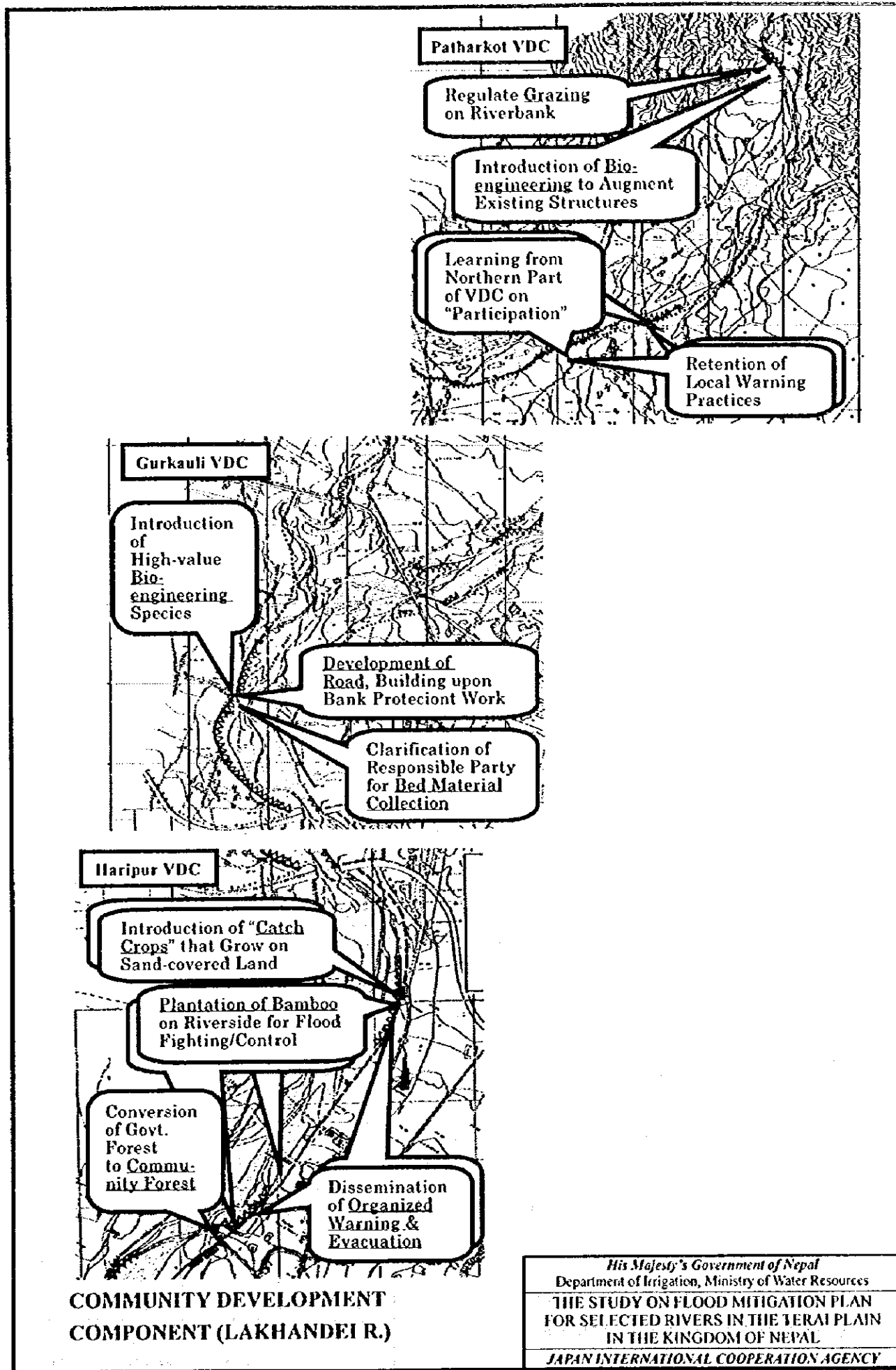


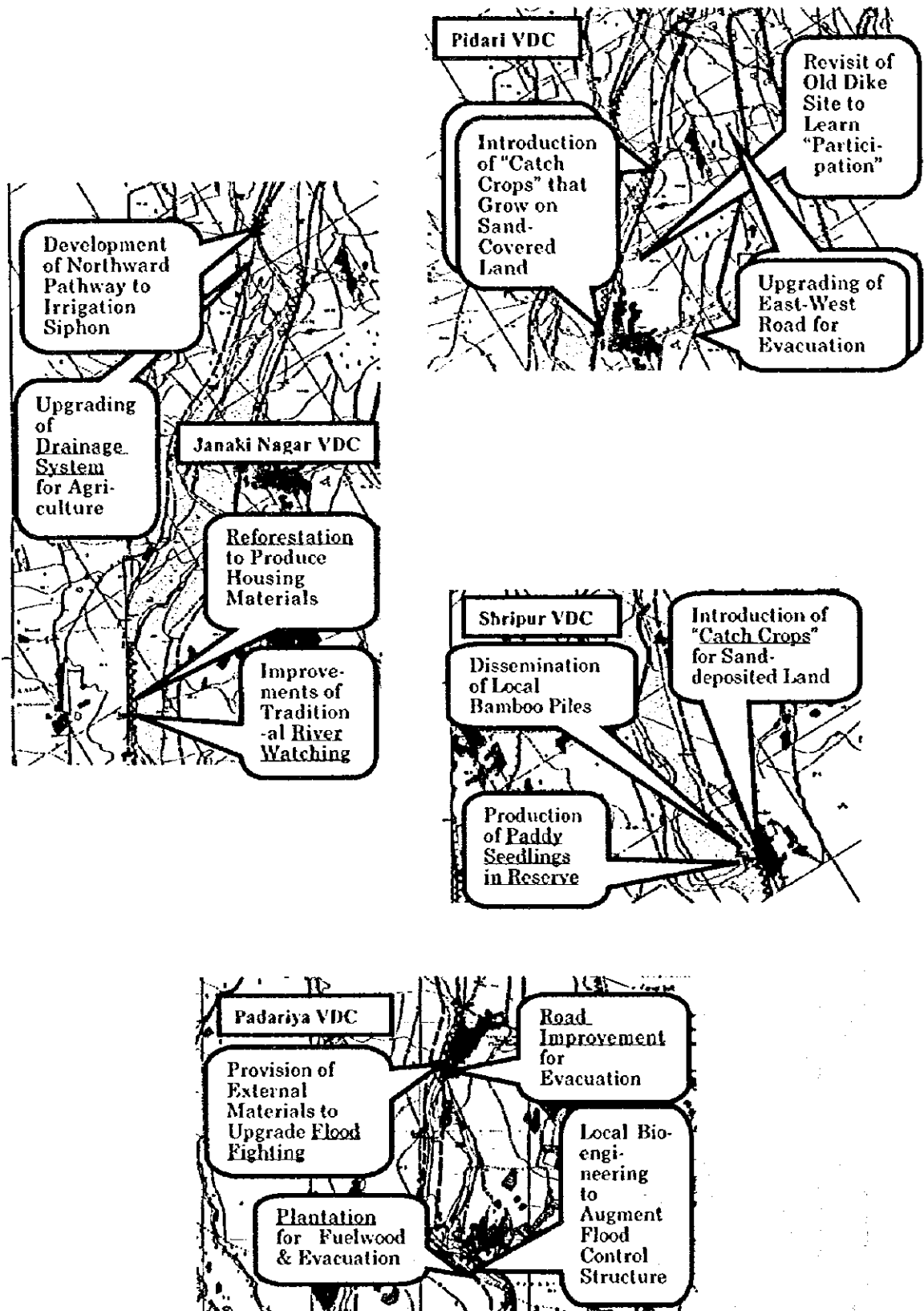
**LAYOUT PLAN FOR FLOOD MITIGATION
Lakhandei River (6/6)**

His Majesty's Government of Nepal
 Department of Irrigation, Ministry of Water Resources
**THE STUDY ON FLOOD MITIGATION PLAN
 FOR SELECTED RIVERS IN THE TERAI PLAIN
 IN THE KINGDOM OF NEPAL**
 JAPAN INTERNATIONAL COOPERATION AGENCY



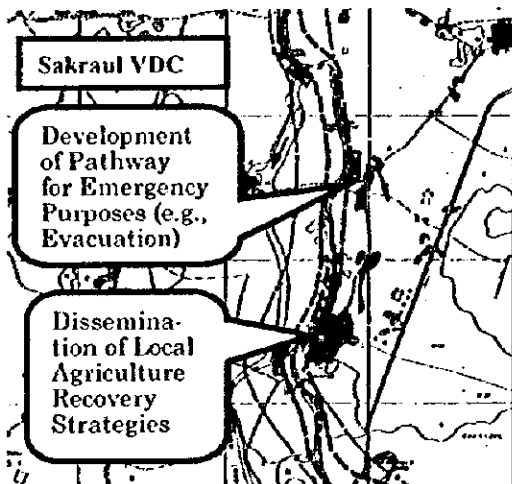
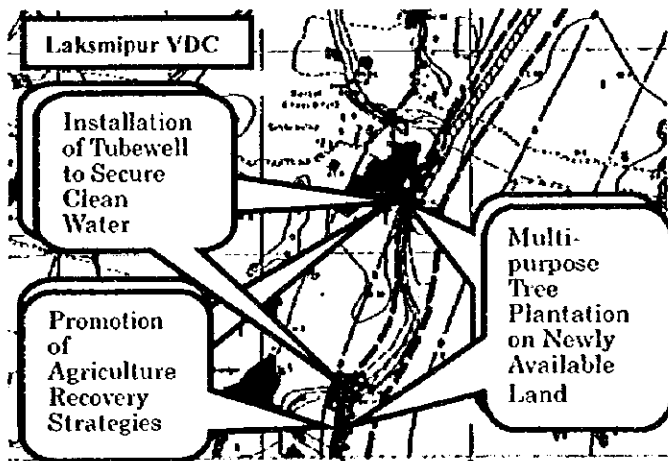
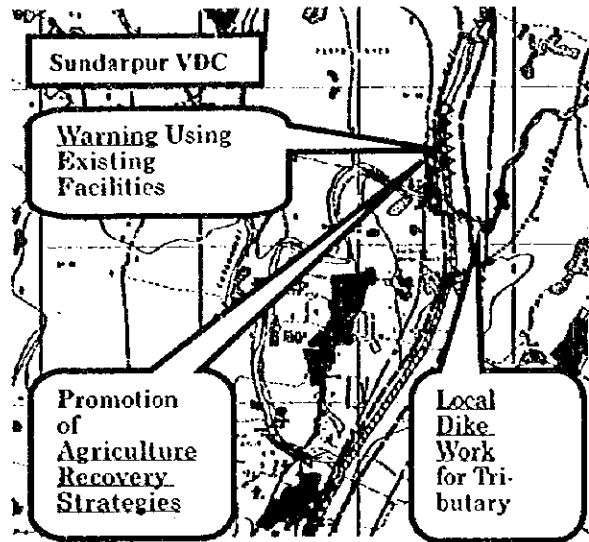
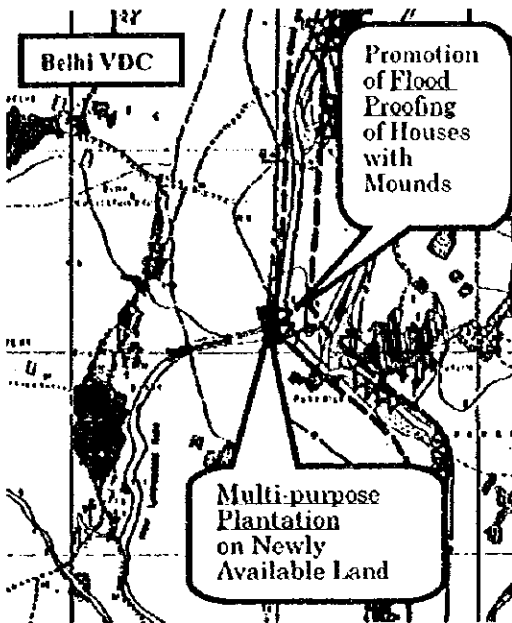
Faint, illegible text at the bottom of the page, possibly bleed-through from the reverse side.





COMMUNITY DEVELOPMENT COMPONENT (LAKHANDEI R.)

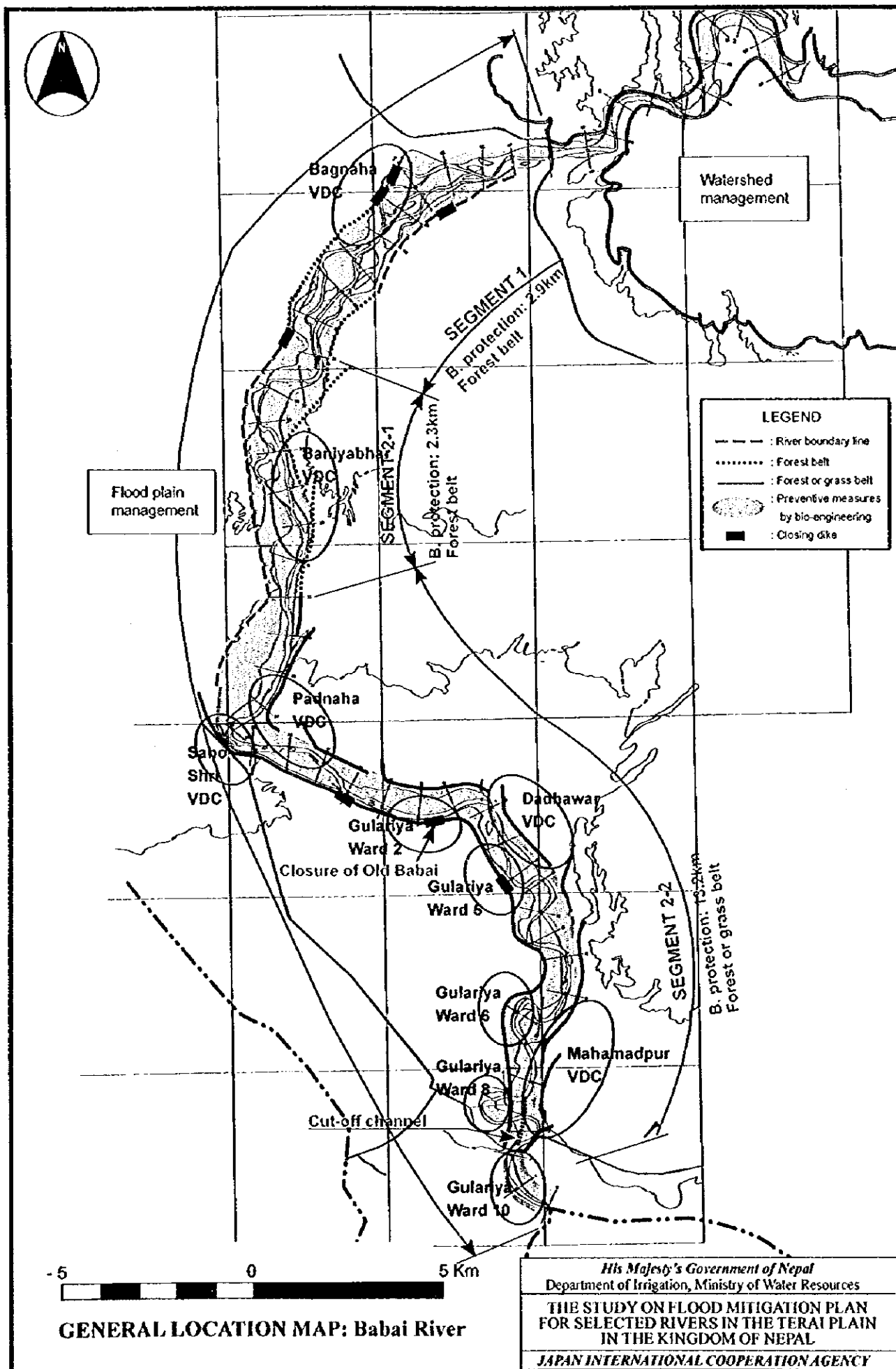
His Majesty's Government of Nepal
 Department of Irrigation, Ministry of Water Resources
THE STUDY ON FLOOD MITIGATION PLAN FOR SELECTED RIVERS IN THE TERAI PLAIN IN THE KINGDOM OF NEPAL
JAPAN INTERNATIONAL COOPERATION AGENCY

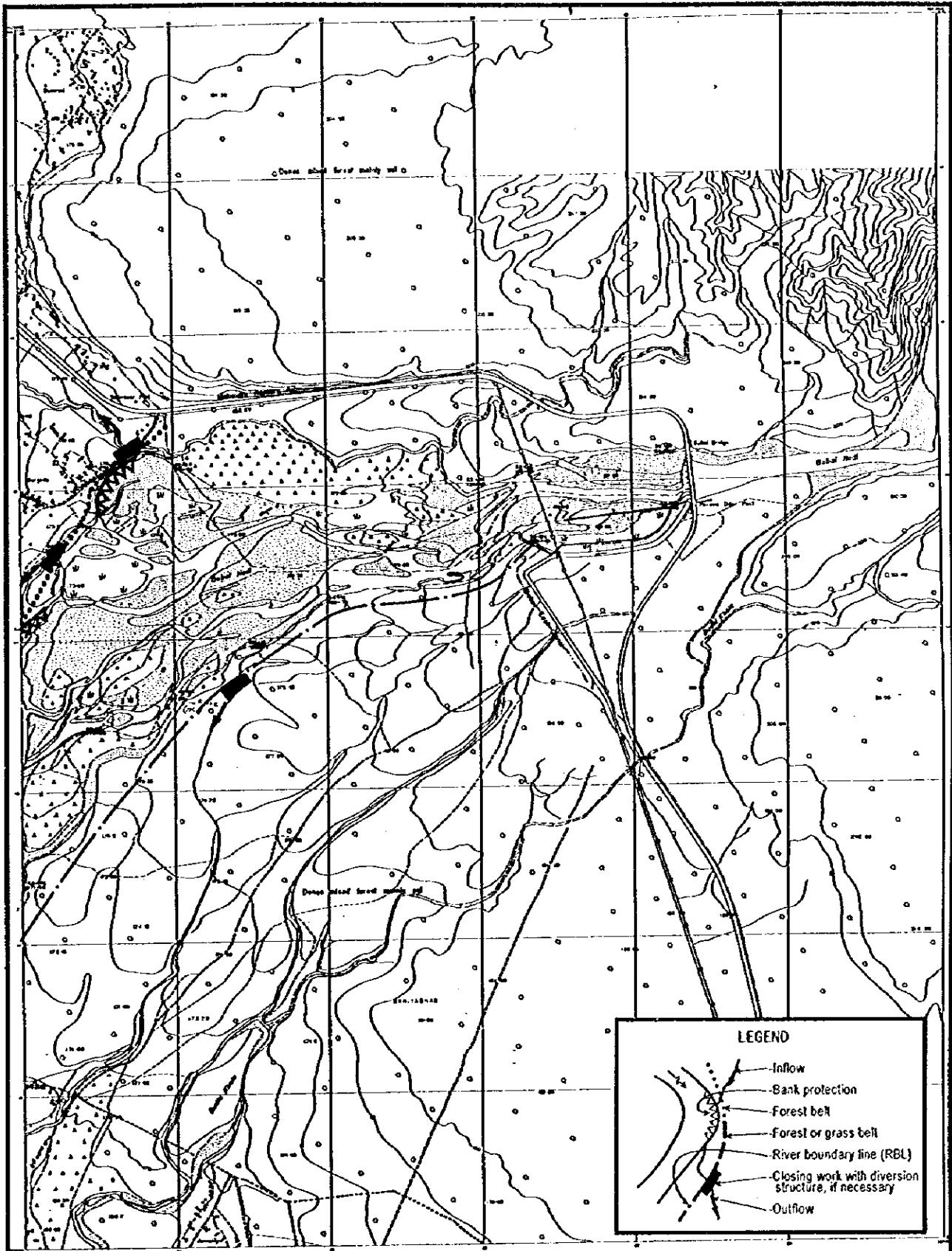


COMMUNITY DEVELOPMENT COMPONENT (LAKHANDEI R.)

His Majesty's Government of Nepal
Department of Irrigation, Ministry of Water Resources
THE STUDY ON FLOOD MITIGATION PLAN FOR SELECTED RIVERS IN THE TERAI PLAIN IN THE KINGDOM OF NEPAL
JAPAN INTERNATIONAL COOPERATION AGENCY

Fig.7.4

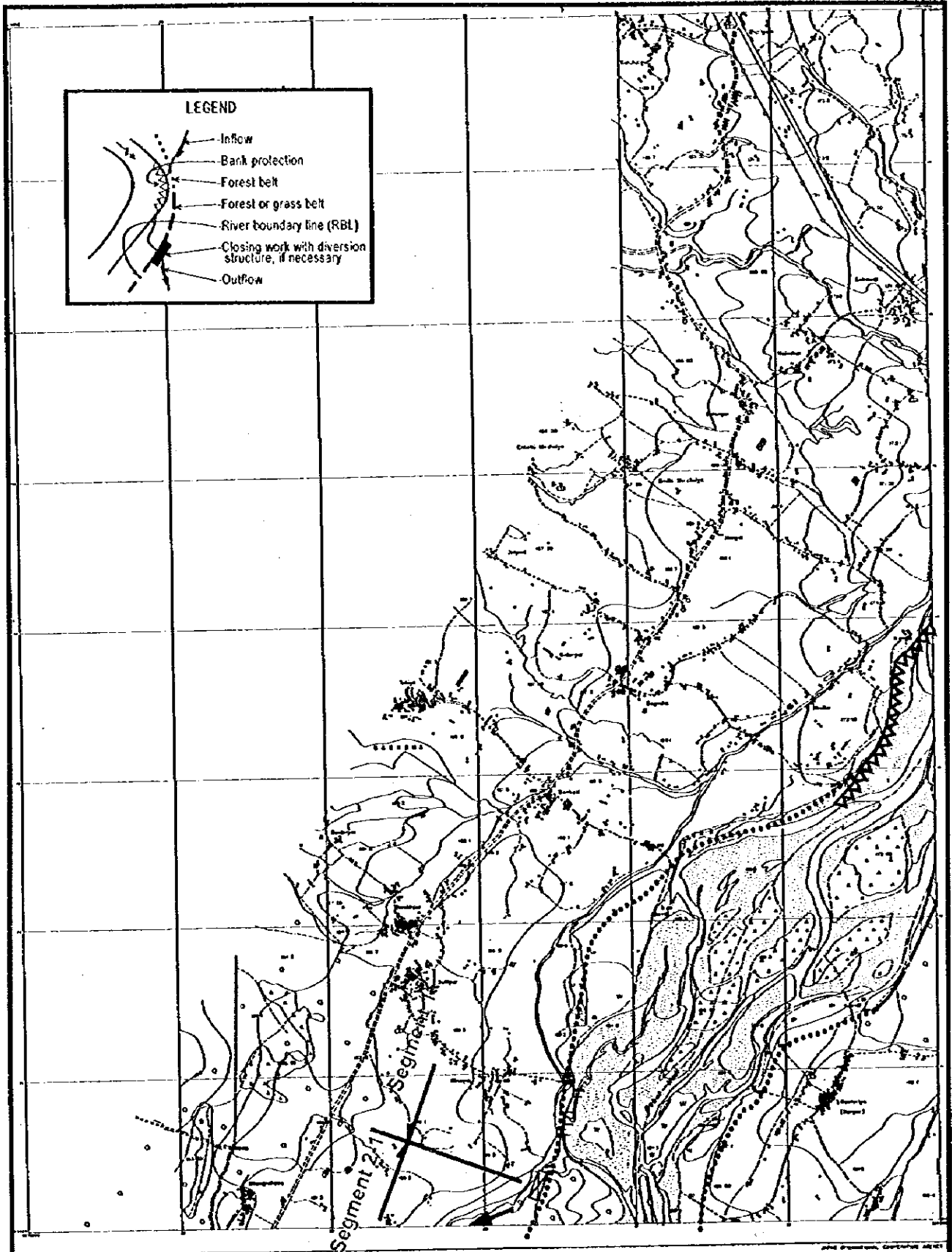




**LAYOUT PLAN FOR FLOOD MITIGATION
Babai River (1/7)**

His Majesty's Government of Nepal
 Department of Irrigation, Ministry of Water Resources
**THE STUDY ON FLOOD MITIGATION PLAN
 FOR SELECTED RIVERS IN THE TERAI PLAIN
 IN THE KINGDOM OF NEPAL**
JAPAN INTERNATIONAL COOPERATION AGENCY

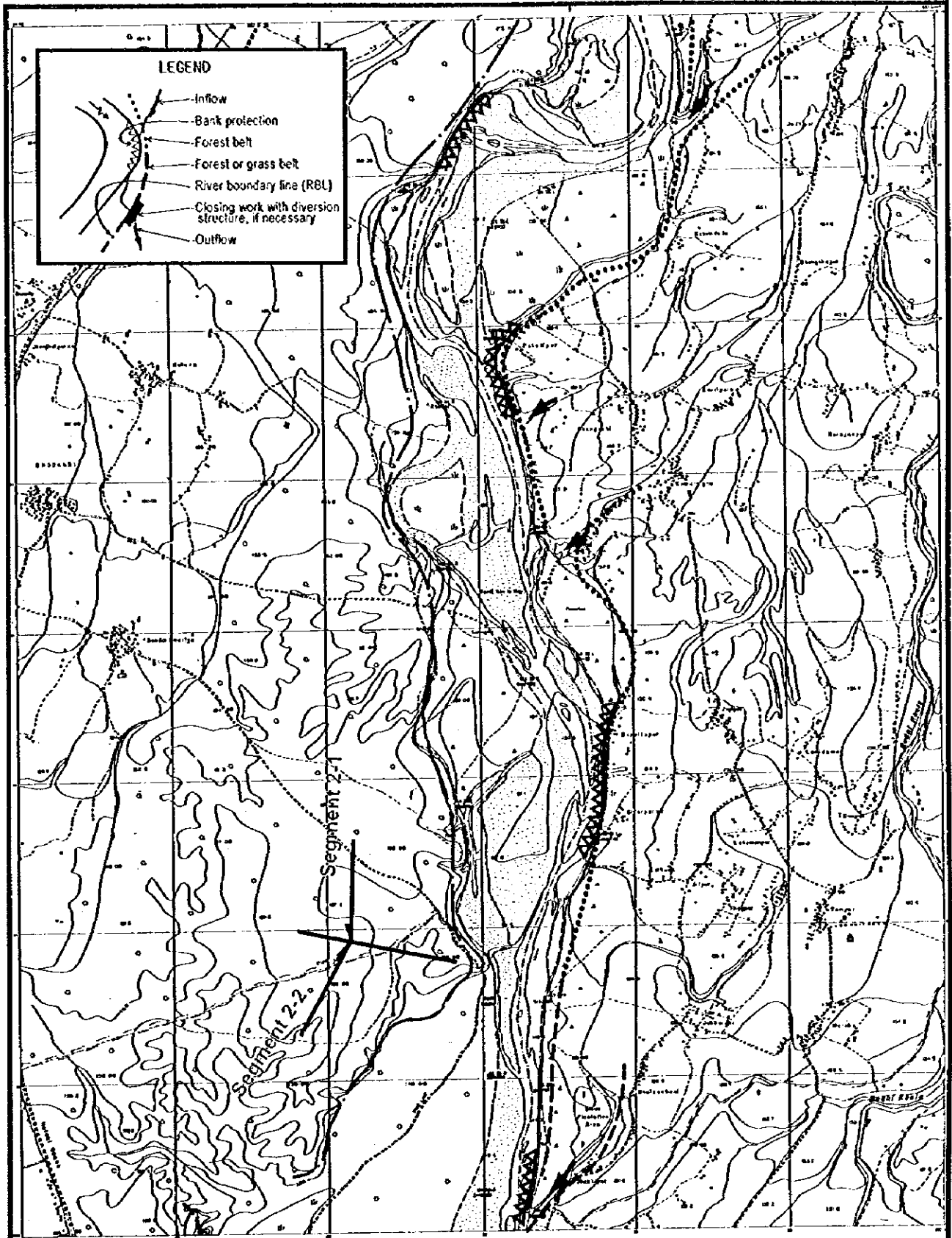
Fig. 7.5 (2/7)



**LAYOUT PLAN FOR FLOOD MITIGATION
Babai River (2/7)**

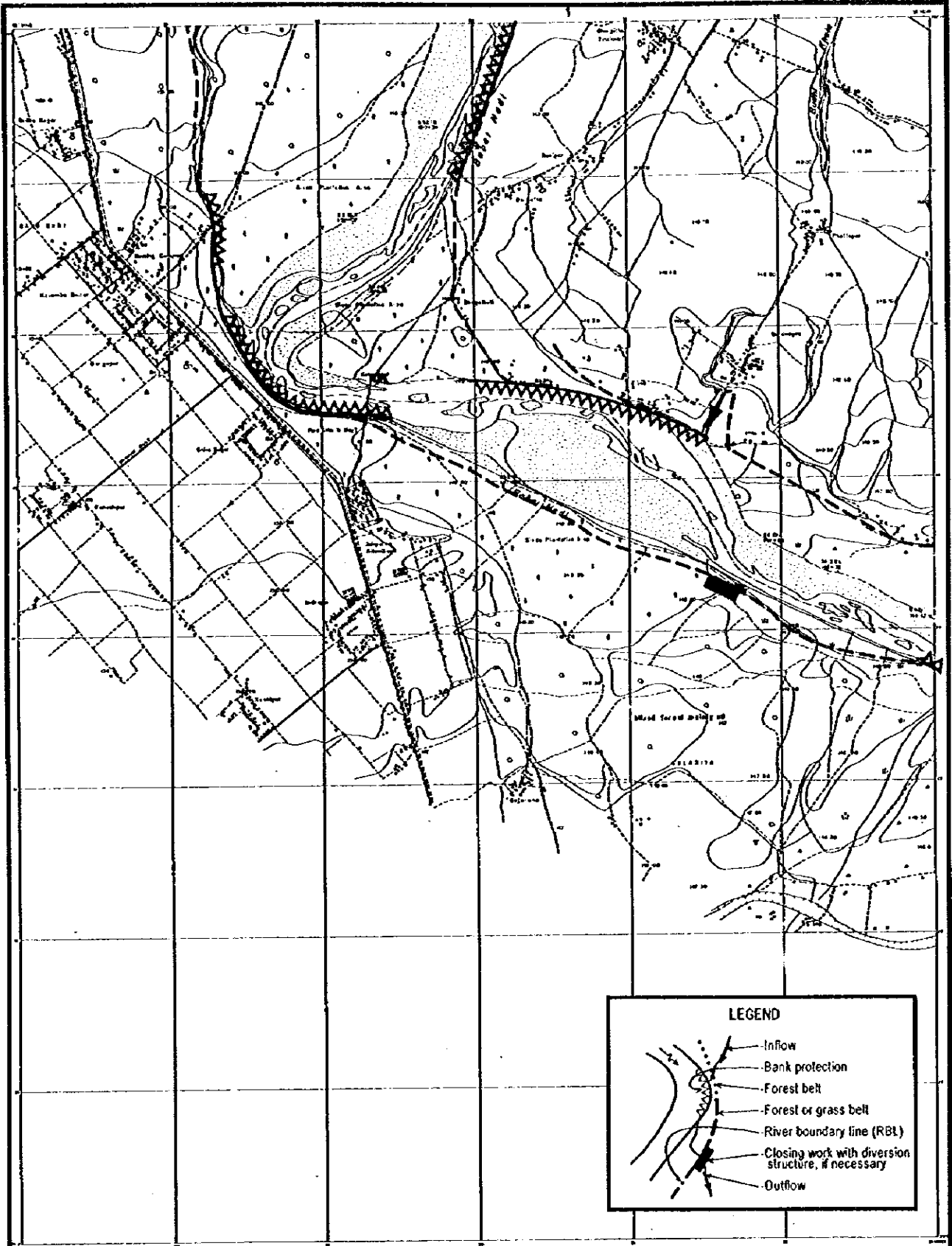
His Majesty's Government of Nepal
Department of Irrigation, Ministry of Water Resources
**THE STUDY ON FLOOD MITIGATION PLAN
FOR SELECTED RIVERS IN THE TERAI PLAIN
IN THE KINGDOM OF NEPAL**
JAPAN INTERNATIONAL COOPERATION AGENCY

Fig. 7.5 (3/7)



**LAYOUT PLAN FOR FLOOD MITIGATION
Babai River (3/7)**

His Majesty's Government of Nepal
Department of Irrigation, Ministry of Water Resources
**THE STUDY ON FLOOD MITIGATION PLAN
FOR SELECTED RIVERS IN THE TERAI PLAIN
IN THE KINGDOM OF NEPAL**
JAPAN INTERNATIONAL COOPERATION AGENCY



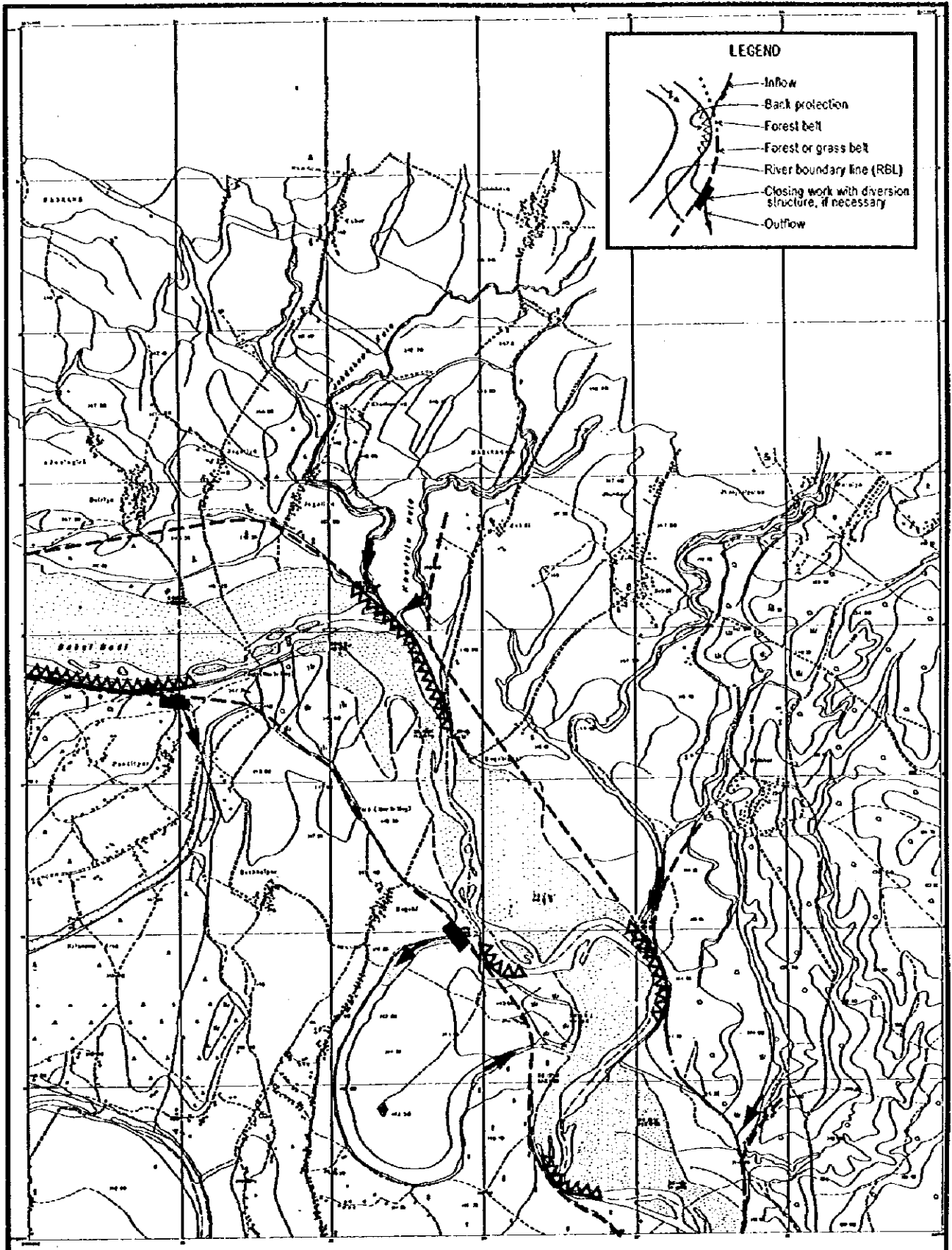
LEGEND

- Inflow
- Bank protection
- Forest belt
- Forest or grass belt
- River boundary line (RBL)
- Closing work with diversion structure, if necessary
- Outflow



**LAYOUT PLAN FOR FLOOD MITIGATION
Babai River (4/7)**

His Majesty's Government of Nepal
 Department of Irrigation, Ministry of Water Resources
**THE STUDY ON FLOOD MITIGATION PLAN
 FOR SELECTED RIVERS IN THE TERAI PLAIN
 IN THE KINGDOM OF NEPAL**
JAPAN INTERNATIONAL COOPERATION AGENCY



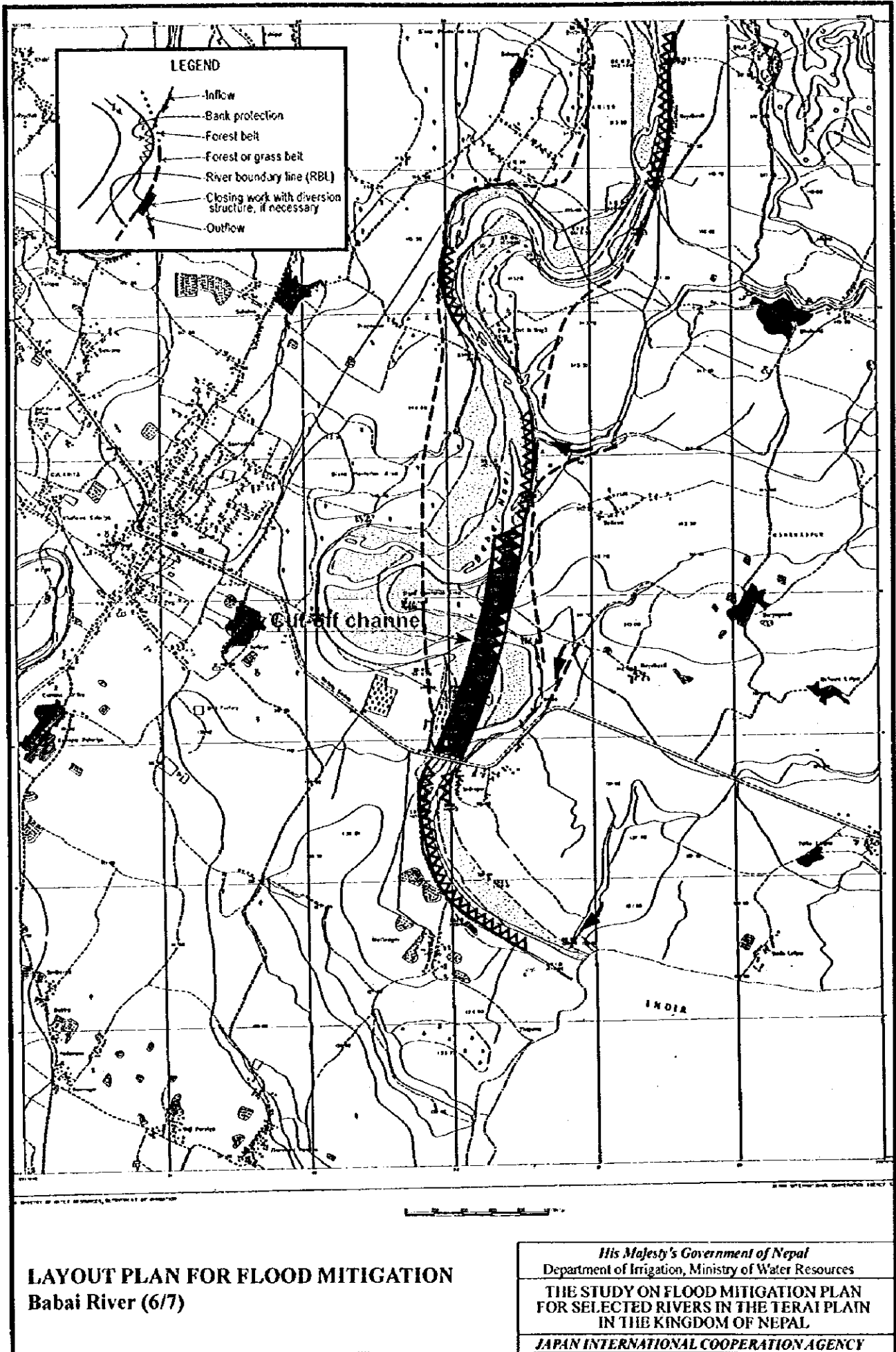
LEGEND

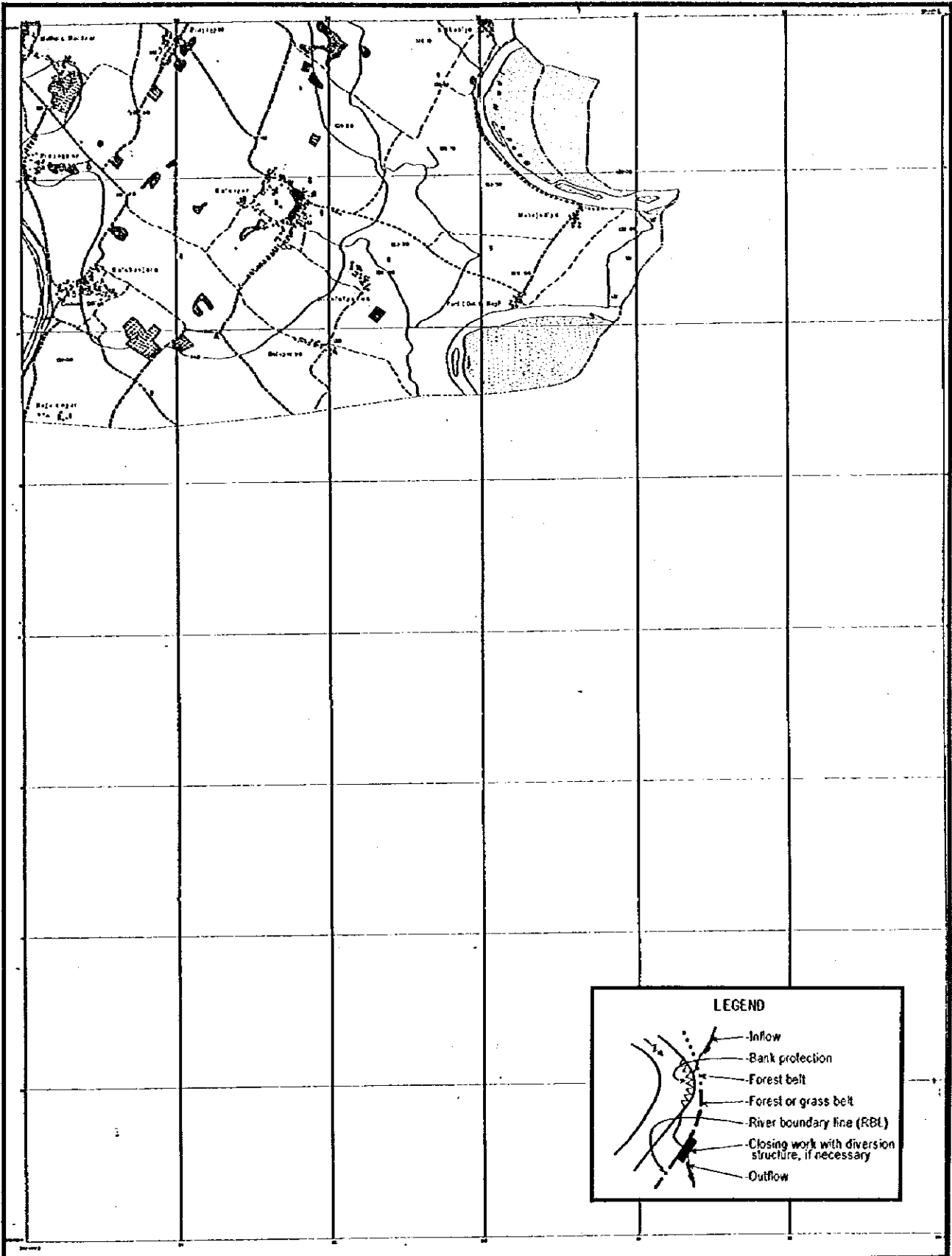
- Inflow
- Back protection
- Forest belt
- Forest or grass belt
- River boundary line (RBL)
- Closing work with diversion structure, if necessary
- Outflow

**LAYOUT PLAN FOR FLOOD MITIGATION
Babai River (5/7)**

His Majesty's Government of Nepal
 Department of Irrigation, Ministry of Water Resources
**THE STUDY ON FLOOD MITIGATION PLAN
 FOR SELECTED RIVERS IN THE TERAI PLAIN
 IN THE KINGDOM OF NEPAL**
JAPAN INTERNATIONAL COOPERATION AGENCY

Fig. 7.5 (6/7)





LEGEND

- Inflow
- Bank protection
- Forest belt
- Forest or grass belt
- River boundary line (RBL)
- Closing work with diversion structure, if necessary
- Outflow

PROPERTY OF WATER RESOURCES DEPARTMENT OF NEPAL

SCALE: 1:50,000

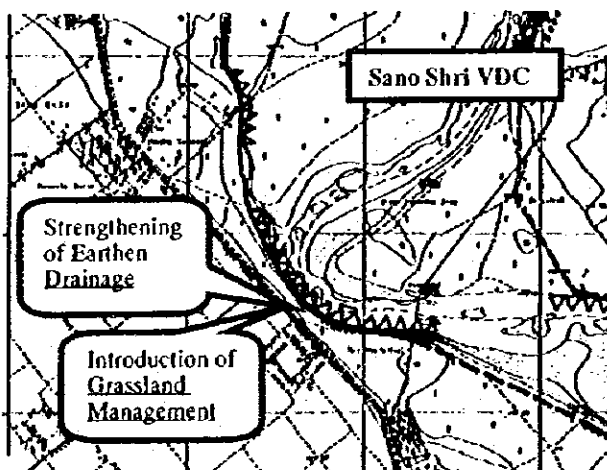
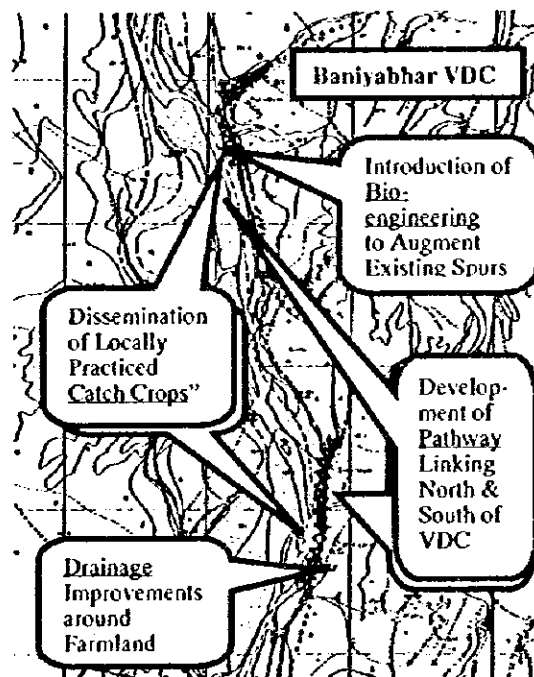
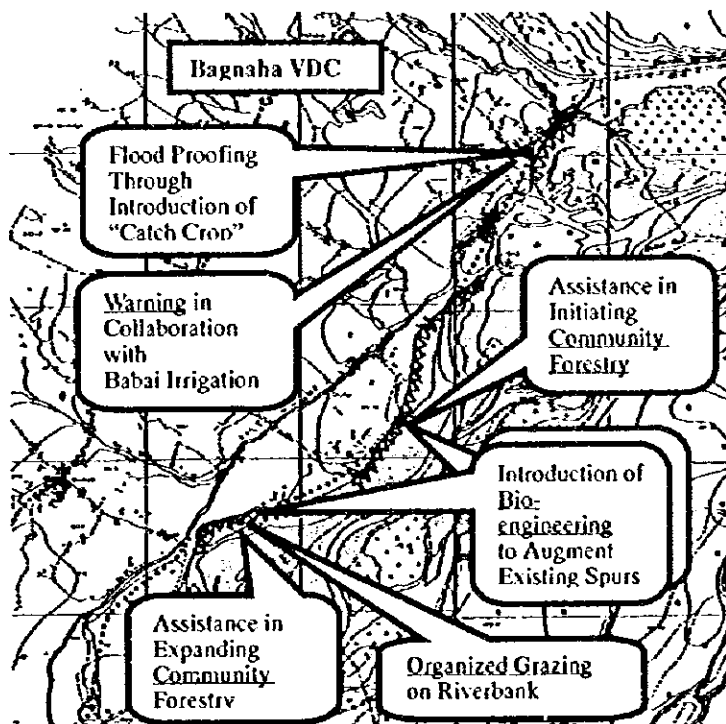
DATE OF PREPARATION: 1980/10/10

**LAYOUT PLAN FOR FLOOD MITIGATION
Babai River (7/7)**

His Majesty's Government of Nepal
 Department of Irrigation, Ministry of Water Resources
**THE STUDY ON FLOOD MITIGATION PLAN
 FOR SELECTED RIVERS IN THE TERAI PLAIN
 IN THE KINGDOM OF NEPAL.**
JAPAN INTERNATIONAL COOPERATION AGENCY

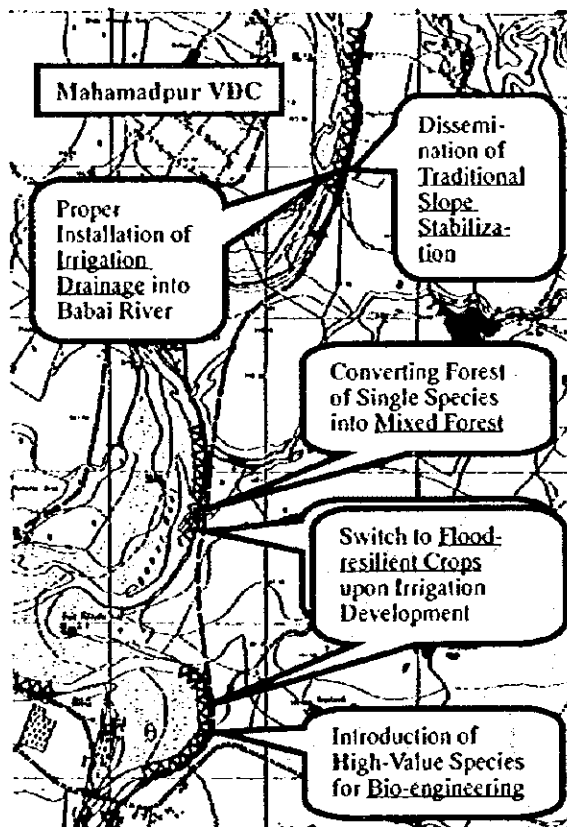
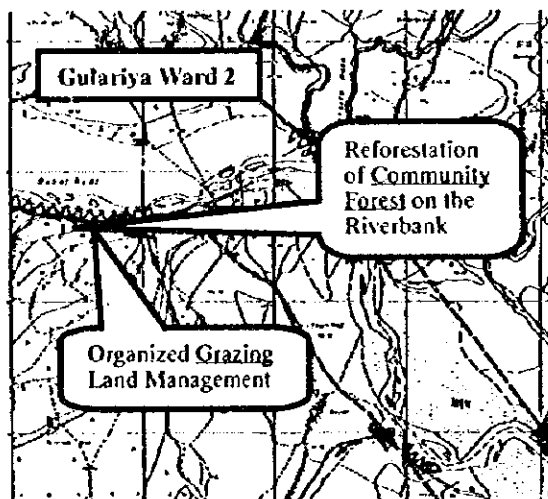
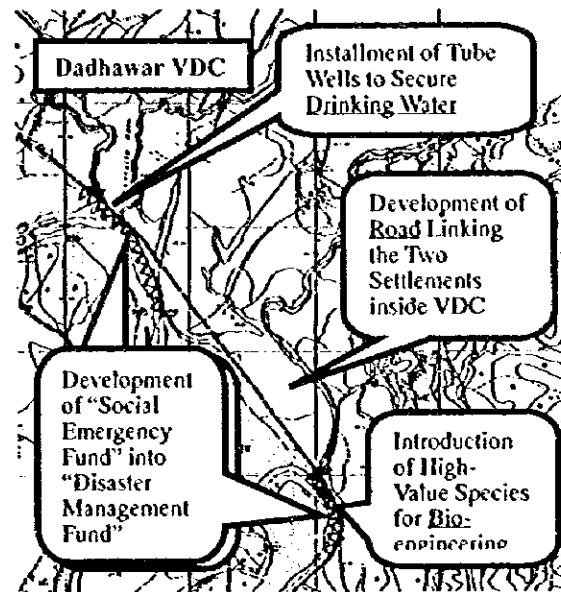
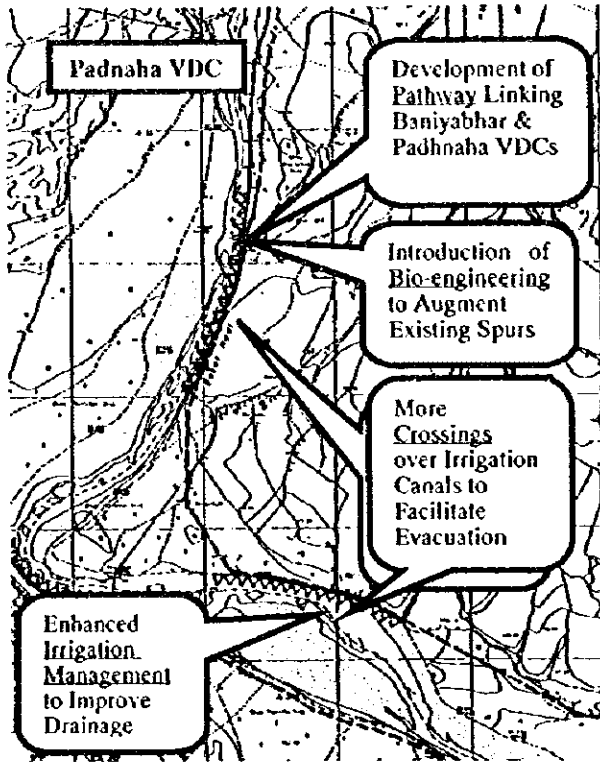


1950



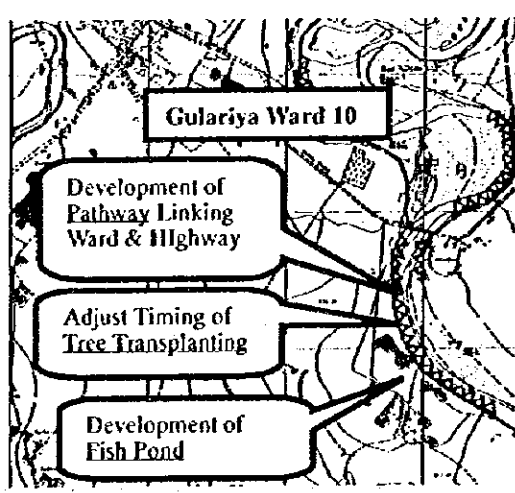
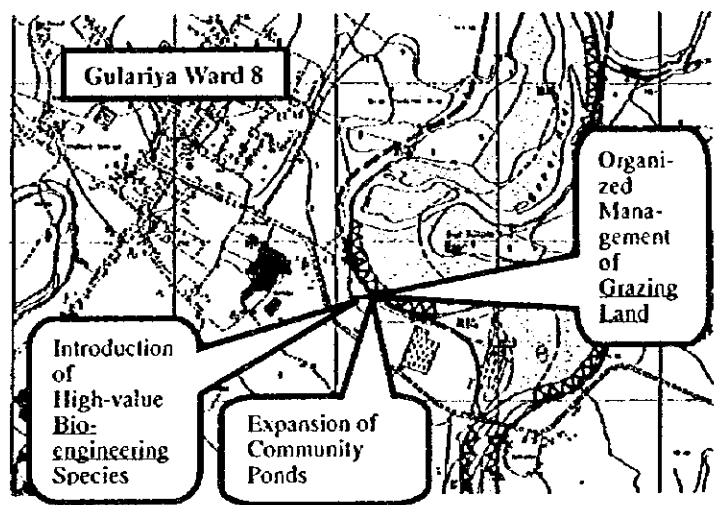
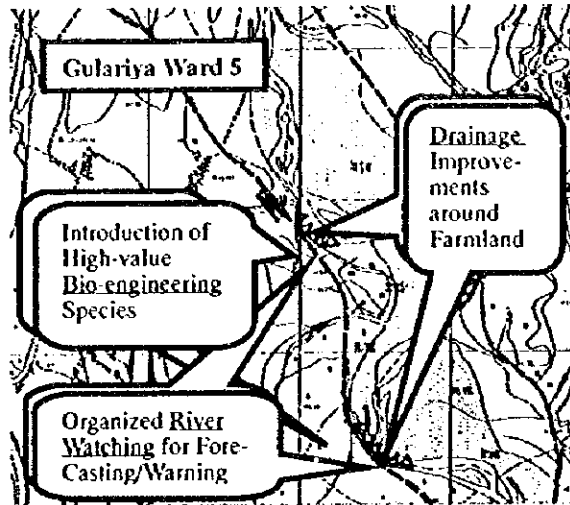
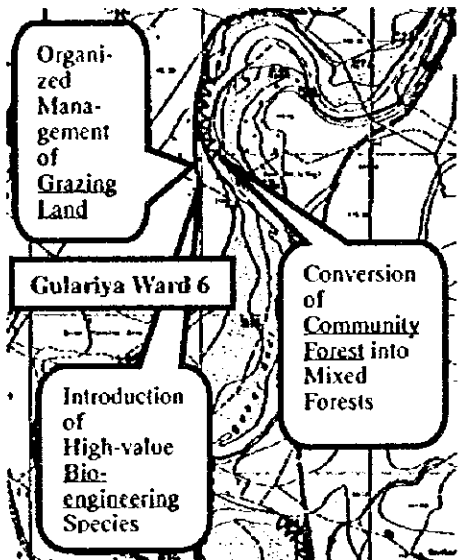
COMMUNITY DEVELOPMENT COMPONENT (BABAI R.)

His Majesty's Government of Nepal
 Department of Irrigation, Ministry of Water Resources
 THE STUDY ON FLOOD MITIGATION PLAN FOR SELECTED RIVERS IN THE TERAI PLAIN IN THE KINGDOM OF NEPAL
 JAPAN INTERNATIONAL COOPERATION AGENCY



COMMUNITY DEVELOPMENT COMPONENT (BABAI R.)

His Majesty's Government of Nepal
 Department of Irrigation, Ministry of Water Resources
THE STUDY ON FLOOD MITIGATION PLAN FOR SELECTED RIVERS IN THE TERAI PLAIN IN THE KINGDOM OF NEPAL
 JAPAN INTERNATIONAL COOPERATION AGENCY



COMMUNITY DEVELOPMENT COMPONENT (BABAI R.)

His Majesty's Government of Nepal
 Department of Irrigation, Ministry of Water Resources
THE STUDY ON FLOOD MITIGATION PLAN FOR SELECTED RIVERS IN THE TERAI PLAIN IN THE KINGDOM OF NEPAL
 JAPAN INTERNATIONAL COOPERATION AGENCY

Fig. 7.7

Work Component and Items	1st.Phase(9th plan) (1997-2002)					2nd.Phase(10th plan) (2002-2007)					3rd.Phase (11-12th plan) (2007-2017)
	1997/98	1998/99	1999/00	2000/01	2001/02	2002/03	2003/04	2004/05	2005/06	2006/07	
PREPARATORY WORKS											
Master plan/ feasibility study	█	█									
Fund arrangement			█								
Definite plan/detailed design, etc				█							
Preservation of land					█						
Coordination among agencies/communities			█	█	█	█	█	█	█	█	█
WATERSHED MANAGEMENT COMPONENT											
Afforestation and Land use Regulation			█	█	█	█	█	█	█	█	█
Publicity activities			█	█	█	█	█	█	█	█	█
RIVER CONTROL COMPONENT											
Channel treatment works:											
Branch/anabranch works					█	█	█	█	█	█	█
Bank protection works:											
Groyne/revetment works					█	█	█	█	█	█	█
Dike works:											
Forest/grass belt works					█	█	█	█	█	█	█
Cut-off channel works					█	█	█	█	█	█	█
Land use regulation:											
Flood hazard map				█							
Conservation of channel storage					█	█	█	█	█	█	█
COMMUNITY DEVELOPMENT COMPONENT											
Community mobilization:											
Workshop for local government leaders				█							
Formation of COs				█							
Formation of inter-CO groups				█							
Disaster relief fund/ group saving						█	█	█	█	█	█
Promotion of public awareness						█	█	█	█	█	█
Local coping measures:											
Land use regulation						█	█	█	█	█	█
Flood proofing						█	█	█	█	█	█
Flood forecasting and warning						█	█	█	█	█	█
Evacuation						█	█	█	█	█	█
Flood fighting						█	█	█	█	█	█
Community-based sustainable measures:											
Bank protection works:											
- Preventive bank protection works						█	█	█	█	█	█
Dike works:											
- Forest/grass belt works						█	█	█	█	█	█
Channel excavation works:											
- Bed material collection						█	█	█	█	█	█
Operation & maintenance of F.M. facilities						█	█	█	█	█	█
ASSOCIATE ACTIVITIES											
Research/investigation:											
Technical guidance:											

IMPLEMENTATION SCHEDULE: BABAI RIVER

Fig. 7.8

Work Component and Items	1st.Phase(9th plan) (1997-2002)					2nd.Phase(10th plan) (2002-2007)					3rd.Phase (11-12th plan) (2007-2017)
	1997/98	1998/99	1999/00	2000/01	2001/02	2002/03	2003/04	2004/05	2005/06	2006/07	
PREPARATORY WORKS											
Master plan/ feasibility study	█										
Fund arrangement			█								
Definite plan/detailed design, etc				█	█						
Preservation of land				█	█						
Coordination among agencies/communities			█								
WATERSHED MANAGEMENT COMPONENT											
Erosion control works:											
Erosion control test works						█					█
Afforestation and Land use Regulation			█								
Publicity activities			█								
RIVER CONTROL COMPONENT											
Channel treatment works:											
Branch/anabranch works						█					
Re-alignment of river channel						█					
Bank protection works:											
Groyne/revetment works						█					
Dike works:											
Forest/grass belt pilot works						█					
Dike road works						█					
Ring dike works						█					
Channel excavation works:											
Pilot channel works						█					
Land use regulation:											
Flood hazard map				█							
Conservation of channel storage						█					
COMMUNITY DEVELOPMENT COMPONENT											
Community mobilization:											
Workshop for local government leaders				█							
Formation of COs				█							
Formation of inter-CO groups				█							
Disaster relief fund/ group saving						█					█
Promotion of public awareness						█					█
Local coping measures:											
Land use regulation						█					█
Flood proofing						█					█
Flood forecasting and warning						█					█
Evacuation						█					█
Flood fighting						█					█
Community-based sustainable measures:											
Bank protection works:											
- Preventive bank protection works						█					█
Dike works:											
- Forest/grass belt works						█					█
Channel excavation works:											
- Bed material collection						█					█
Opration & maintenance of F.M. facilities						█					█
ASSOCIATE ACTIVITIES											
Research/investigation:											
Technical guidance:			█								

IMPLEMENTATION SCHEDULE: LAKHANDEI RIVER



1952-1953





JICA