

- 300 CONTOUR
- RIVER
- ROAD
- RAILWAY
- TOWNSHIP
- NATIONAL BOUNDARY
- ZONE BOUNDARY
- DISTRICT BOUNDARY

- LEGEND**
(GEOLOGY)
- ALLUVIAL (1) FAN DEPOSITS (3 UNITS) FLOOD AND PRESENT RIVER DEPOSITS
 - ALLUVIAL (2) G₁ ~ G₄; AOUFER LAYERS
 - TERRACE DEPOSITS
 - SIWALIK FORMATION

- (TOPOGRAPHIC CLASSIFICATION)
- I : UPPER TERRACE
 - II : MIDDLE TERRACE
 - III : LOWER TERRACE
 - IV : BAGMATI FLOOD AREA
 - V : KAMLA FLOOD AREA
- SCALE
0 5 10km

图 3.1 水理地質平面图

HIS MAJESTY'S GOVERNMENT OF NEPAL		
TERAI GROUNDWATER DEVELOPMENT PROJECT		
TITLE OF DRAWING		
HYDROGEOLOGICAL		MAP
Date	Drawing No.	
JAPAN INTERNATIONAL COOPERATION AGENCY		

图 3.2 水理地質平面圖 (1/3)

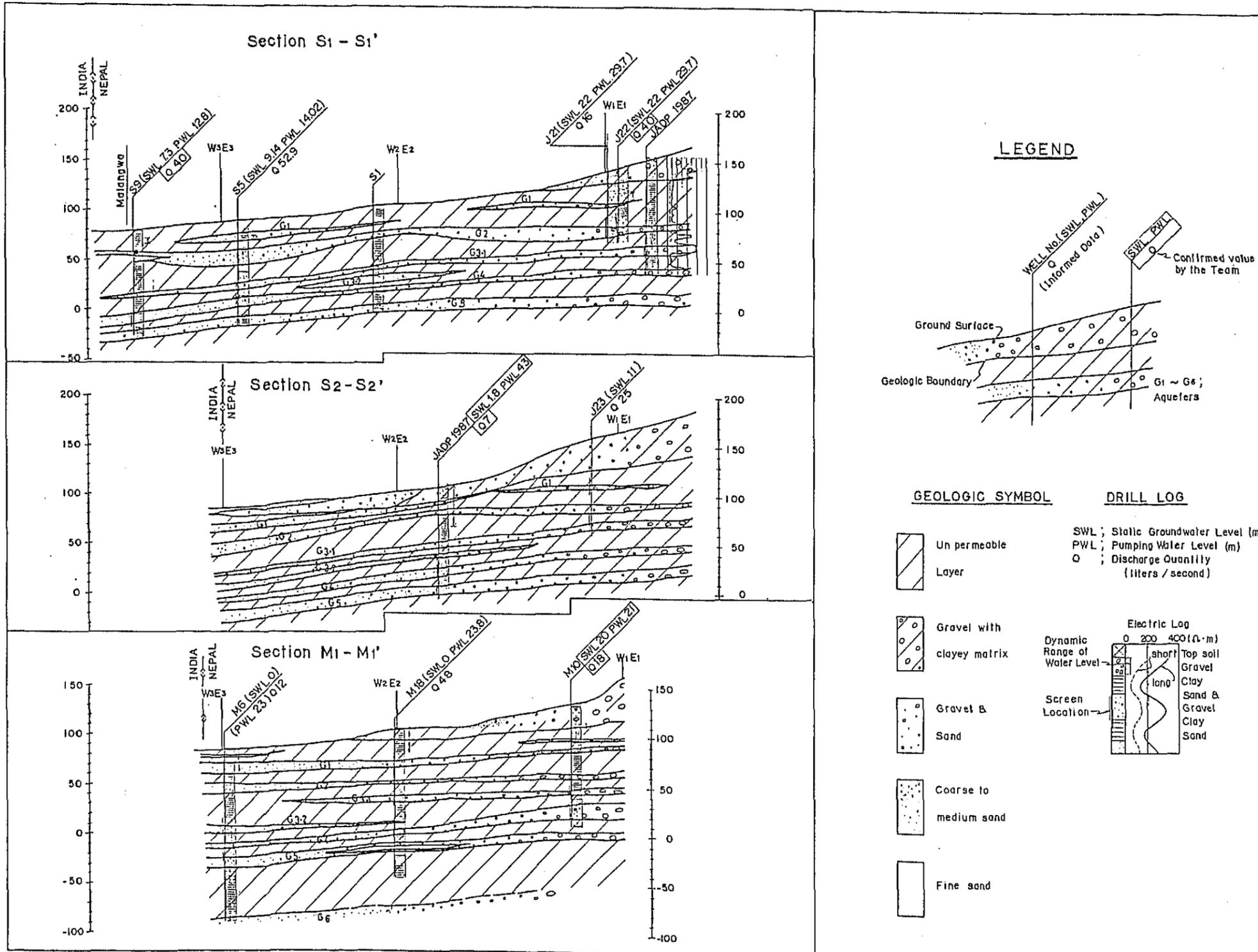


图 3.2 水理地质断面图 (2/3)

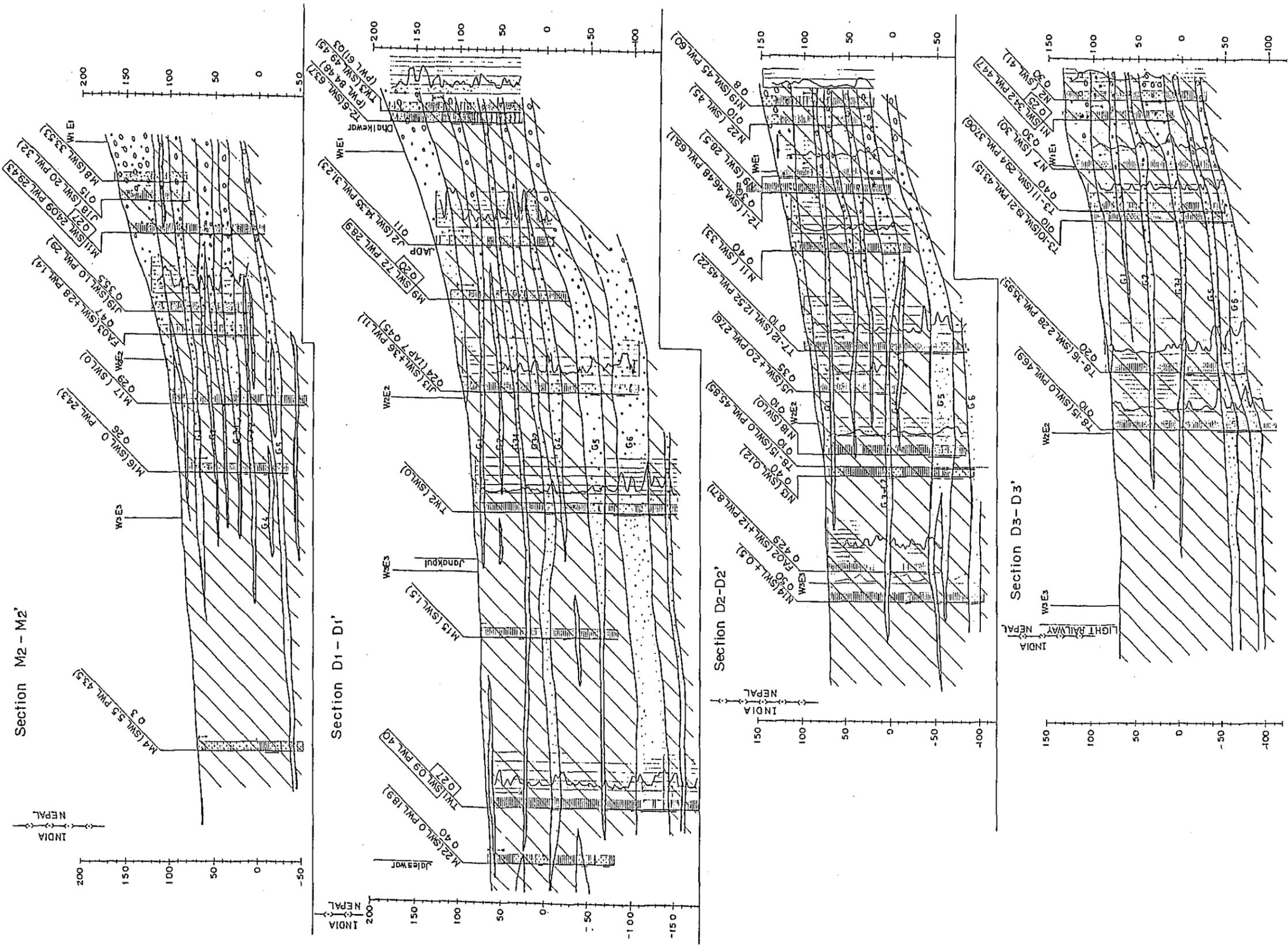
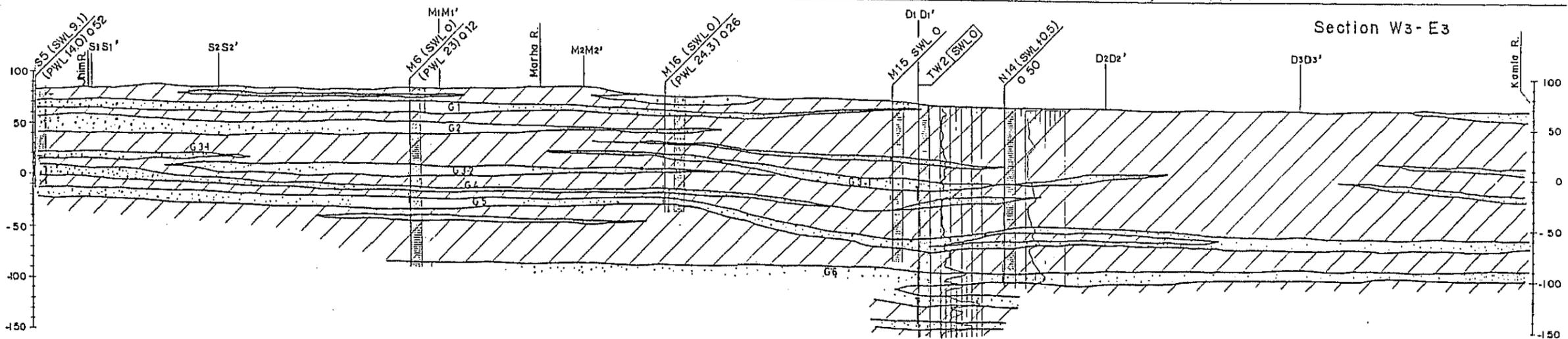
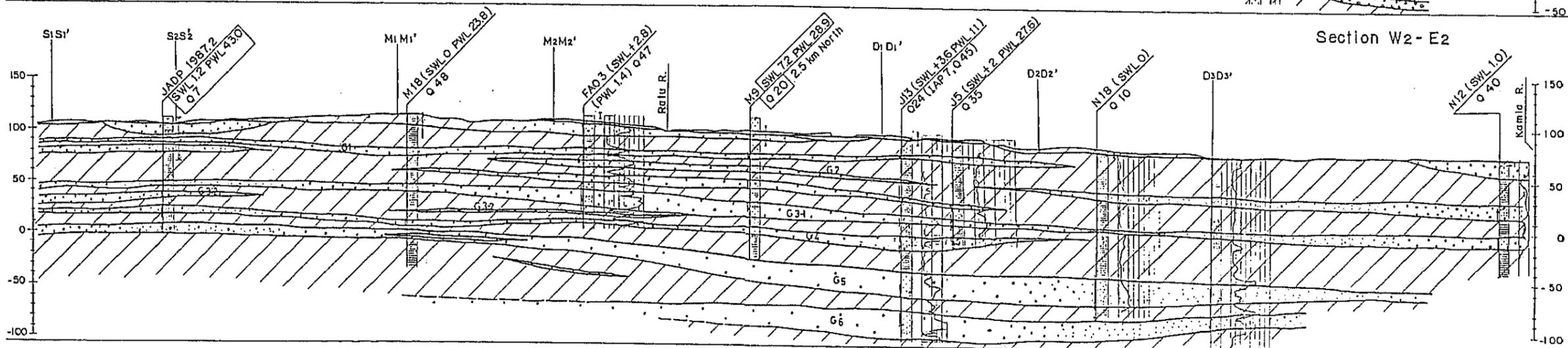
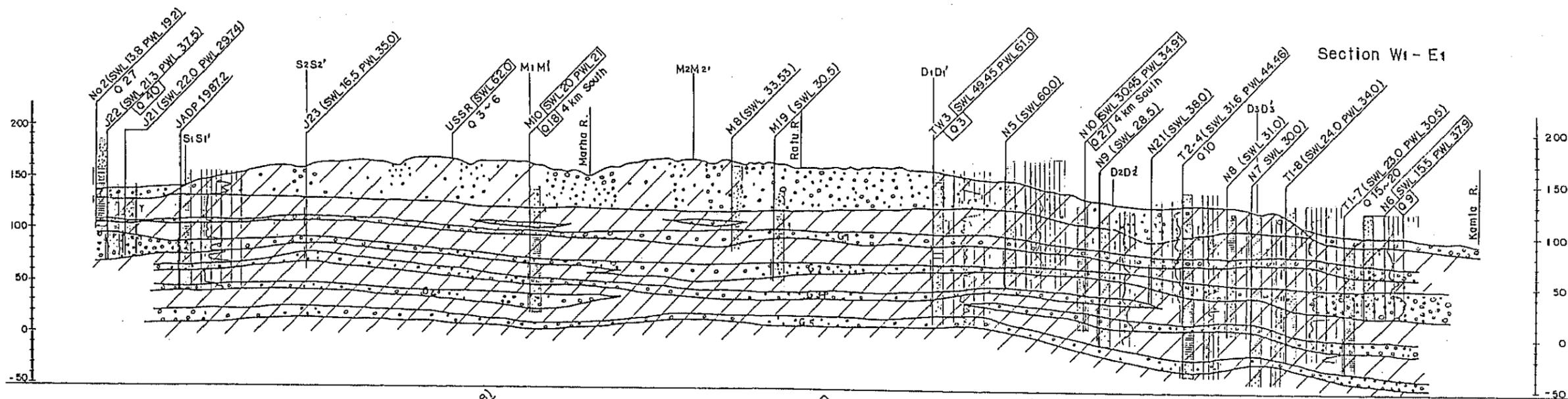


图 3.2 水理地質断面图 (3/3)

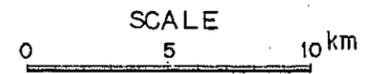




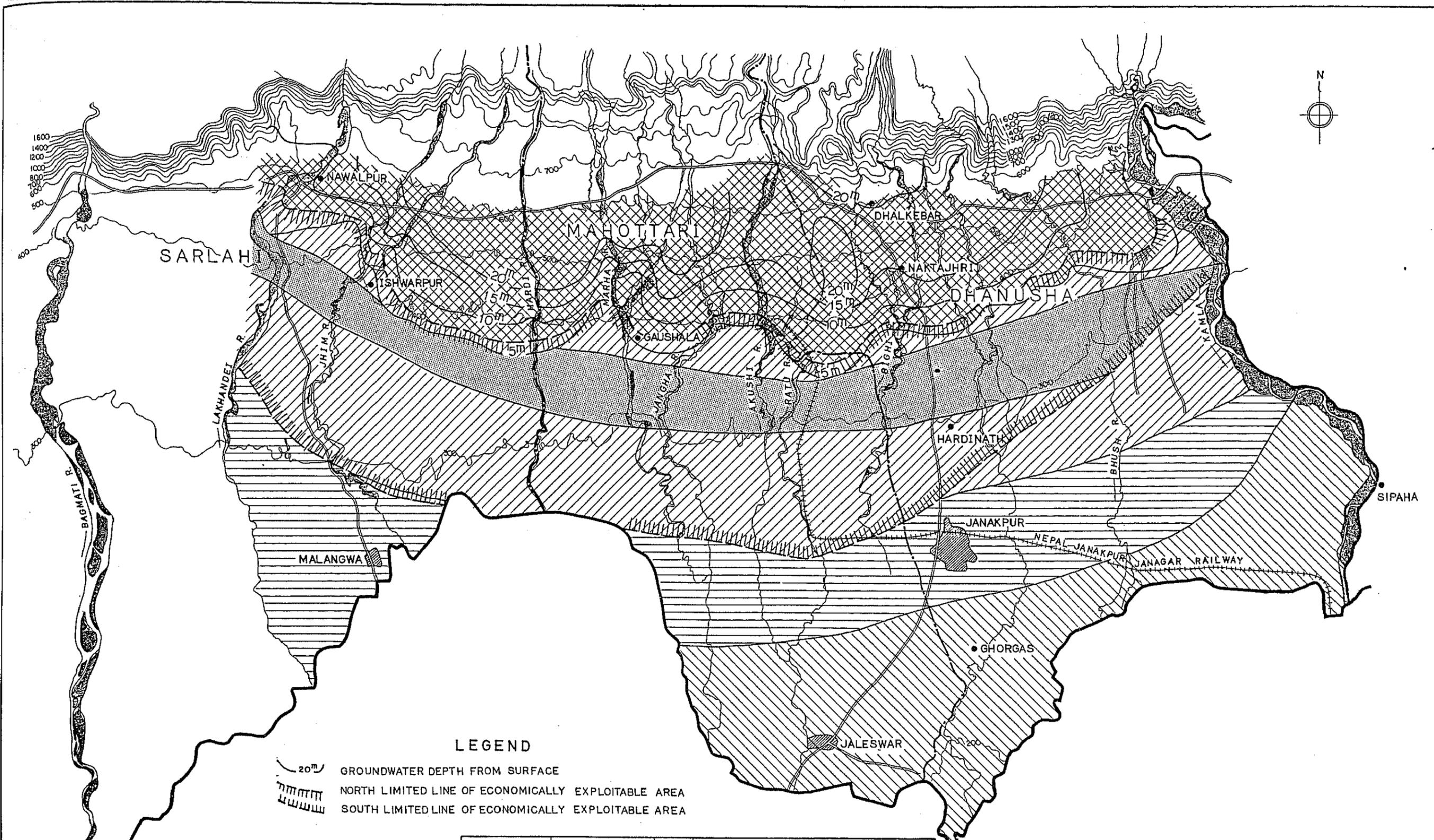
- LEGEND**
- 300- CONTOUR
 - RIVER
 - ROAD
 - RAILWAY
 - TOWNSHIP
 - NATIONAL BOUNDARY
 - ZONE BOUNDARY
 - DISTRICT BOUNDARY
 - D1—D1' GEOLOGICAL PROFILE LINE

- INFORMED WELL DATA
- INFORMED WELL DATA, PUMP INSTALLED
- INFORMED WELL DATA, RUNNING AT PRESENT
- ⊘ OBSERVED WELL, SCREEN CRASHED
- OBSERVED WELL FOR DISCHARGE Q'TY
- ▲ SEASONABLY OR WEAK ARTESIAN WELL
- △ ARTESIAN WELL

图 3.3 既存深井戸位置图



HIS MAJESTY'S GOVERNMENT OF NEPAL	
TERAI GROUNDWATER DEVELOPMENT PROJECT	
TITLE OF DRAWING	
LOCATION MAP OF EXISTING WELLS	
Date	Drawing No.
JAPAN INTERNATIONAL COOPERATION AGENCY	



LEGEND

20m GROUNDWATER DEPTH FROM SURFACE
 NORTH LIMITED LINE OF ECONOMICALLY EXPLOITABLE AREA
 SOUTH LIMITED LINE OF ECONOMICALLY EXPLOITABLE AREA

300 CONTOUR
 RIVER
 ROAD
 RAILWAY
 TOWNSHIP
 NATIONAL BOUNDARY
 ZONE BOUNDARY
 DISTRICT BOUNDARY

ZONE	CLASSIFICATION	MARK	REMARKS & ESTIMATED DISCHARGE
ZONE 1	NOT AVAILABLE	⊗	TOO DEEP HEAD FOR CENTRIFUGAL PUMP
ZONE 2	ZONE 2-A	■	MORE THAN 10 L/SEC.
	ZONE 2-B	▨	7 TO 10 L/SEC.
ZONE 3	ZONE 3-A	▧	5 TO 7 L/SEC.
	ZONE 3-B	▩	LESS THAN 5 L/SEC.

(AFTER AIBA & YAMOTO REPORT 1983)



図 3.4 浅井戸の地下水位・可能揚水分量分布図

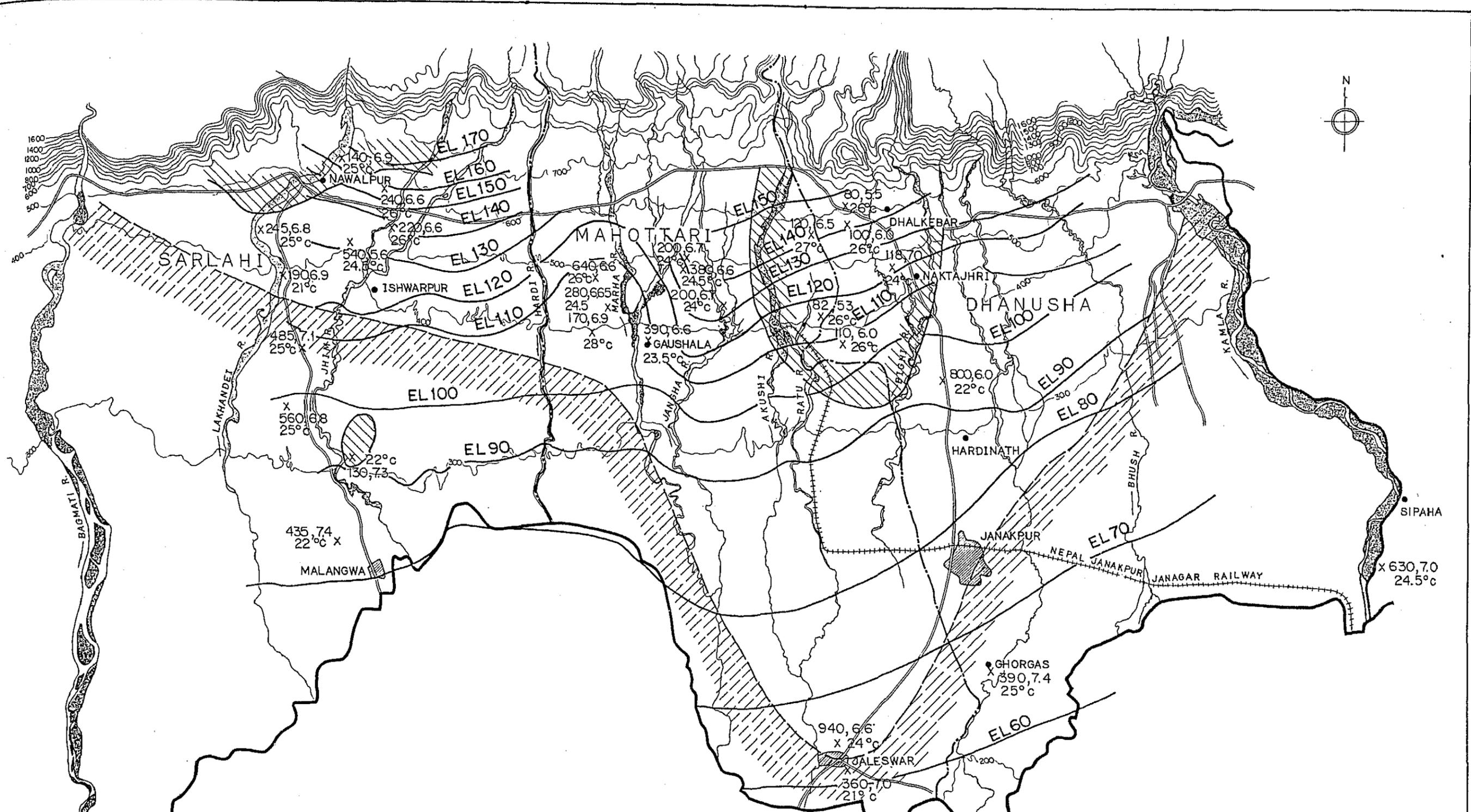
HIS MAJESTY'S GOVERNMENT OF NEPAL

TERAI GROUNDWATER DEVELOPMENT PROJECT

TITLE OF DRAWING
GROUNDWATER LEVEL FROM SURFACE
AND ESTIMATED DISCHARGE MAP OF
UNCONFINED AQUIFER

Date	MAY 1987	Drawing No.	3-5
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JAPAN INTERNATIONAL COOPERATION AGENCY

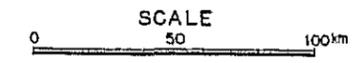


LEGEND

- 300 CONTOUR
- RIVER
- ROAD
- RAILWAY
- TOWNSHIP
- NATIONAL BOUNDARY
- ZONE BOUNDARY
- DISTRICT BOUNDARY
- GROUNDWATER CONTOUR OF UNCONFINED AQUIFER
- THE AREA OF 150 MICRO MHO/CM OR LESS IN ELECTRIC CONDUCTIVITY
- THE AREA OF 7.0 OR MORE IN PH VALUE
- 110, 6.0 110 : CONDUCTIVITY (MHO/CM)
 6.0 : PH VALUE
- x SHALLOW WELL POINT
- 22°C TEMPERATURE (°c)

図 3.5 浅井戸のPH、電導度、水温分布図

HIS MAJESTY'S GOVERNMENT OF NEPAL		
TERAI GROUNDWATER DEVELOPMENT PROJECT		
TITLE OF DRAWING PH, CONDUCTIVITY & TEMPERATURE DISTRIBUTION MAP OF SHALLOW WELL WATER		
Date		Drawing No.
JAPAN INTERNATIONAL COOPERATION AGENCY		



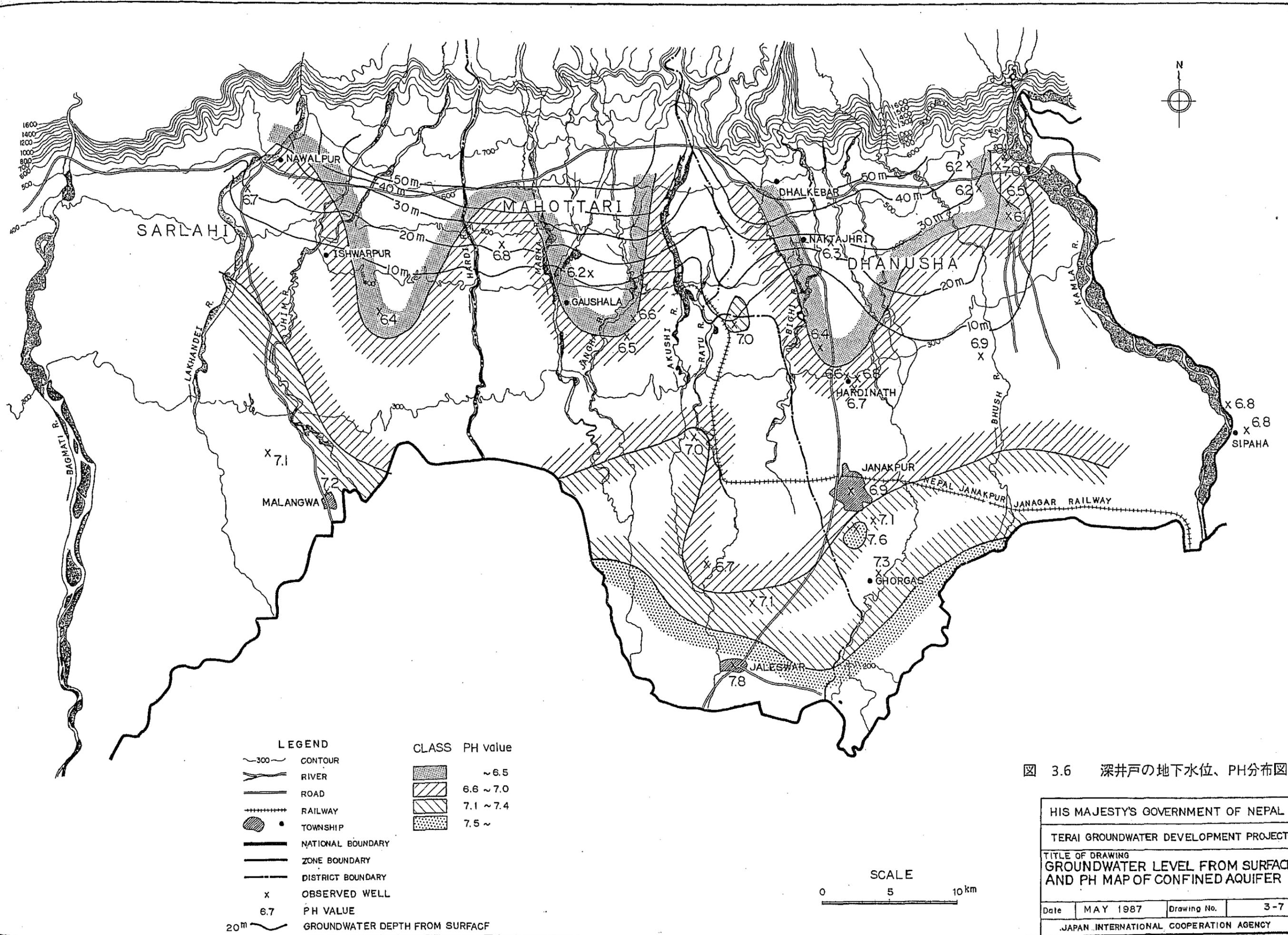
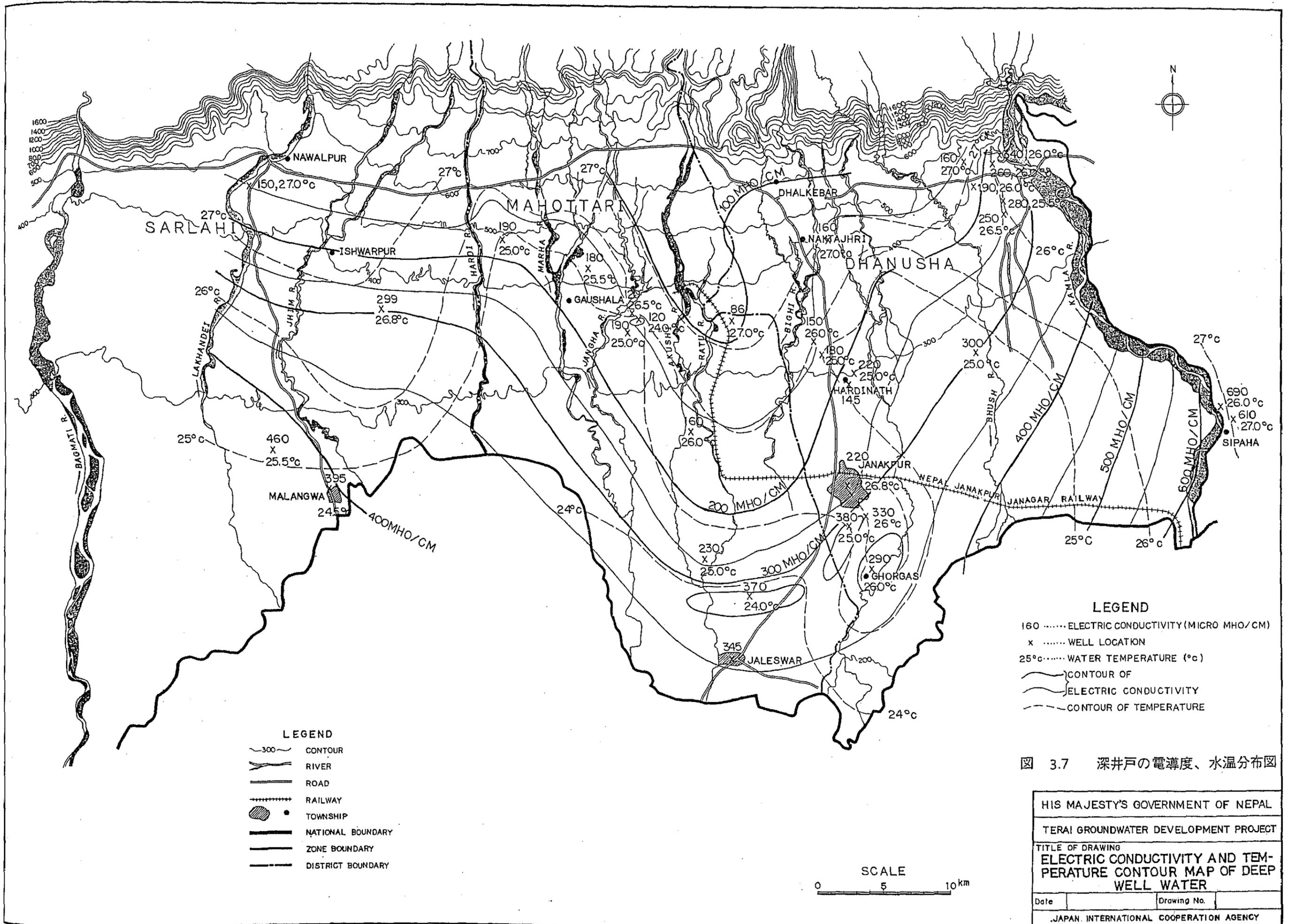


図 3.6 深井戸の地下水位、PH分布図

HIS MAJESTY'S GOVERNMENT OF NEPAL			
TERAI GROUNDWATER DEVELOPMENT PROJECT			
TITLE OF DRAWING GROUNDWATER LEVEL FROM SURFACE AND PH MAP OF CONFINED AQUIFER			
Date	MAY 1987	Drawing No.	3-7
JAPAN INTERNATIONAL COOPERATION AGENCY			



LEGEND

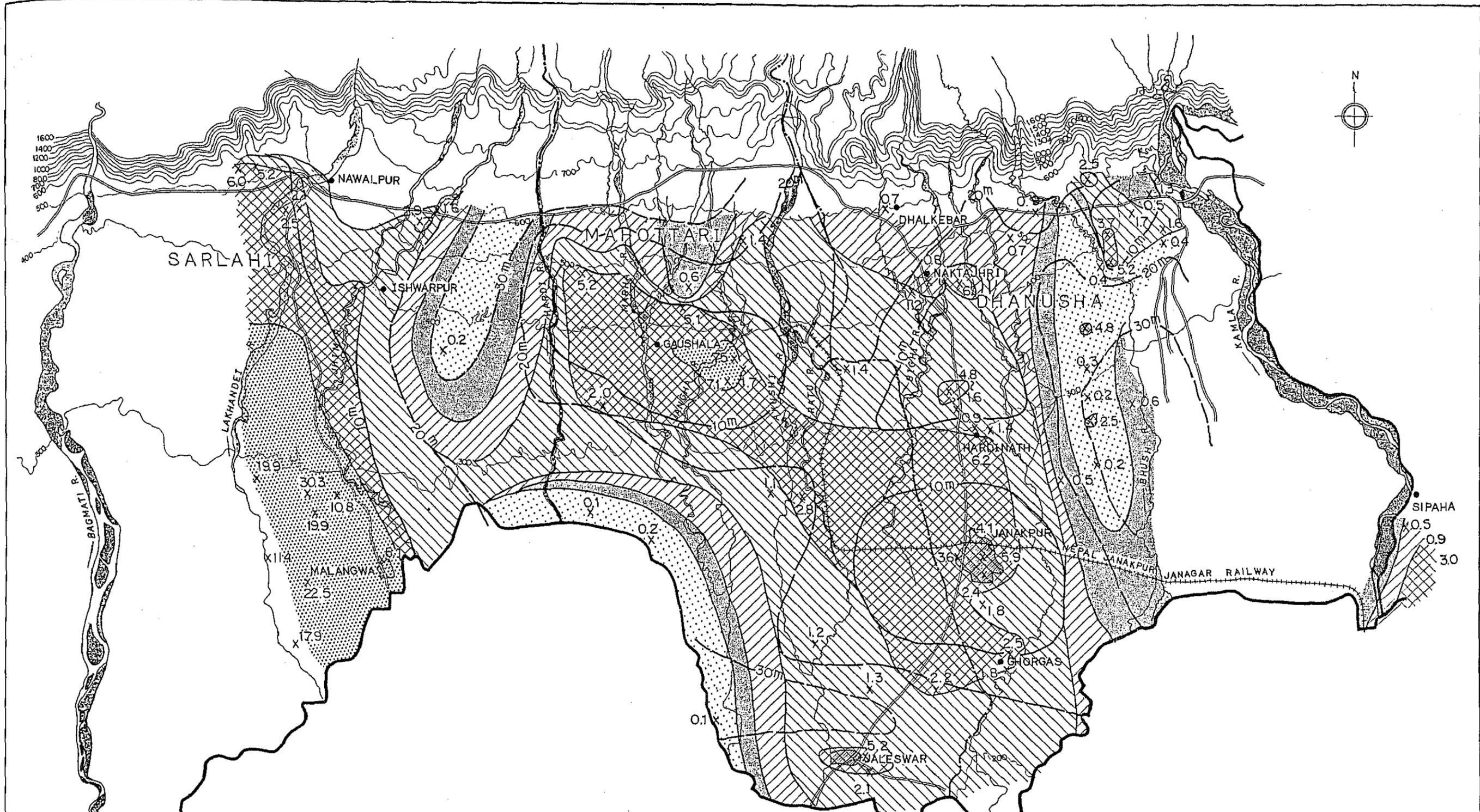
- 300 — CONTOUR
- RIVER
- ROAD
- RAILWAY
- TOWNSHIP
- NATIONAL BOUNDARY
- ZONE BOUNDARY
- DISTRICT BOUNDARY

LEGEND

- 160 ELECTRIC CONDUCTIVITY (MICRO MHO/CM)
- x WELL LOCATION
- 25°C WATER TEMPERATURE (°C)
- CONTOUR OF ELECTRIC CONDUCTIVITY
- - - CONTOUR OF TEMPERATURE

図 3.7 深井戸の電導度、水温分布図

HIS MAJESTY'S GOVERNMENT OF NEPAL		
TERAI GROUNDWATER DEVELOPMENT PROJECT		
TITLE OF DRAWING ELECTRIC CONDUCTIVITY AND TEMPERATURE CONTOUR MAP OF DEEP WELL WATER		
Date	Drawing No.	
JAPAN INTERNATIONAL COOPERATION AGENCY		



LEGEND

	300	CONTOUR			
		RIVER			
		ROAD			
		RAILWAY			
		TOWNSHIP			
		NATIONAL BOUNDARY			
		ZONE BOUNDARY			
		DISTRICT BOUNDARY			
		CLASS	SPECIFIC CAPACITY (L/SEC/M)	CAPACITY (M ² /DAY)	
			~ 0.4	(= ~ 42)	
			0.5 ~ 0.6	(= 43 ~ 59)	
			0.7 ~ 0.9	(= 60 ~ 85)	
			1.0 ~ 1.9	(= 86 ~ 172)	
			2.0 ~ 6.9	(= 173 ~ 599)	
			7.0 ~ 31.0	(= 600 ~ 2,700)	
x		WELL POINT			
2.2			SPECIFIC CAPACITY VALUE (L/SEC/M)		
			10 m DRAWDOWN CONTOUR		
			20 m DRAWDOWN CONTOUR		
			30 m DRAWDOWN CONTOUR		

SCALE 0 50 100km

図 3.8 深井戸の比湧出量分布図

HIS MAJESTY'S GOVERNMENT OF NEPAL		
TERAI GROUNDWATER DEVELOPMENT PROJECT		
TITLE OF DRAWING		
SPECIFIC CAPACITY MAP OF DEEP TUBE WELLS		
Date	Drawing No.	
JAPAN INTERNATIONAL COOPERATION AGENCY		

図 3.10 TIATSPの組織と人員配置図

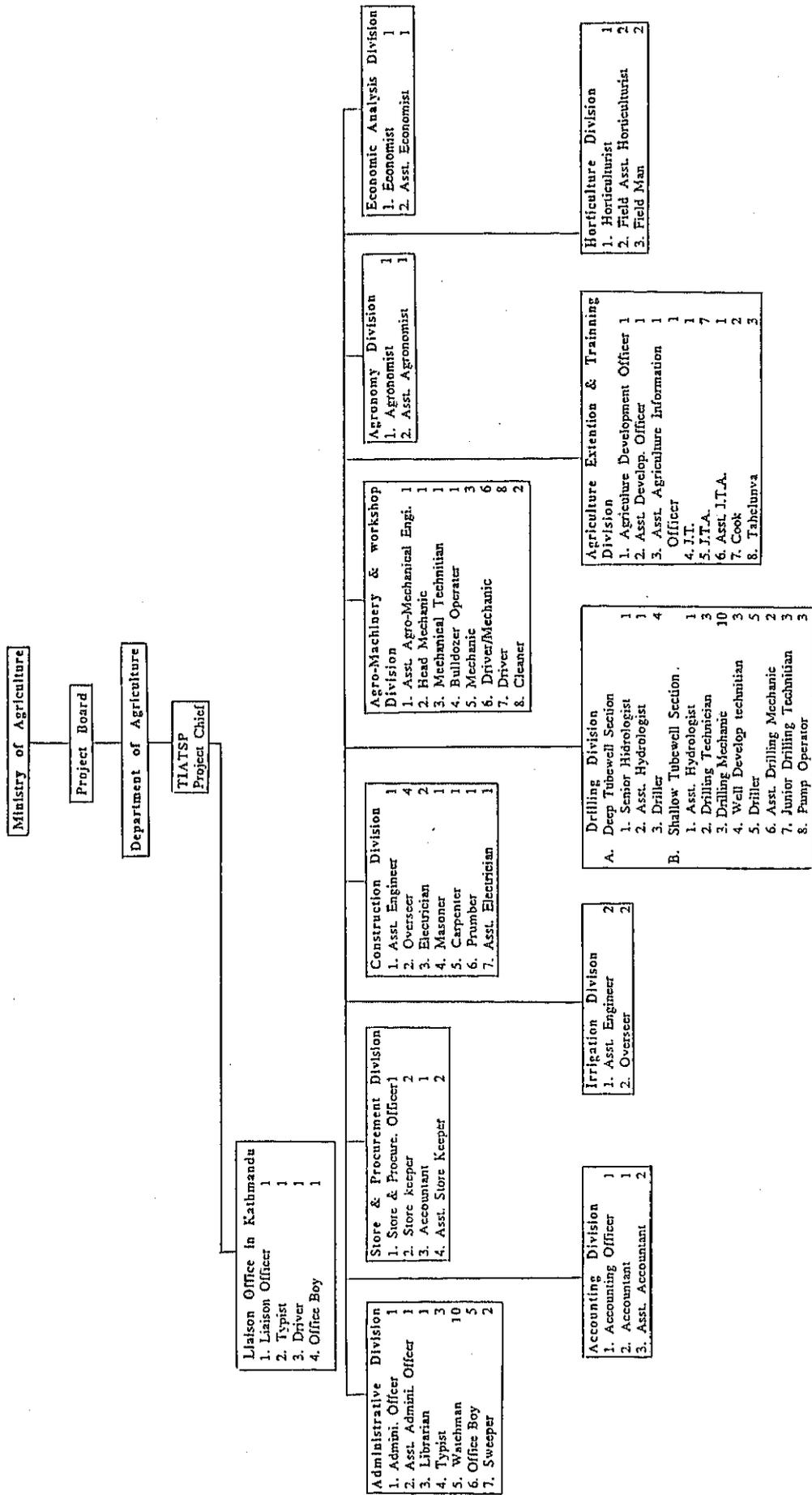
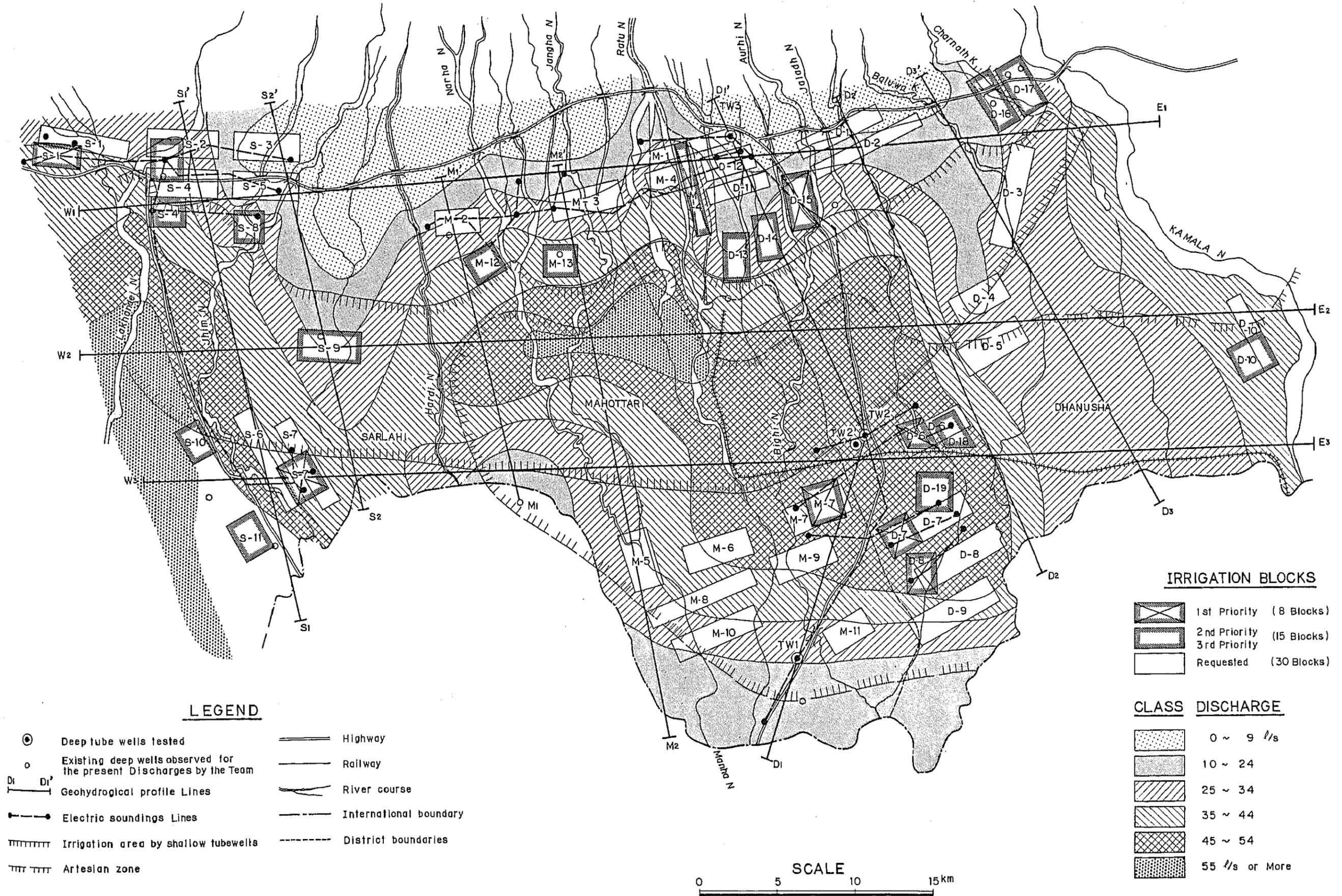


図 4.1 地下水賦存量および開発地区位置図



LEGEND

- Deep tube wells tested
- Existing deep wells observed for the present Discharges by the Team
- Di Di' Geohydrological profile Lines
- Electric soundings Lines
- ||||| Irrigation area by shallow tubewells
- ||||| Artesian zone
- Highway
- Railway
- River course
- International boundary
- - - District boundaries

IRRIGATION BLOCKS

- 1st Priority (8 Blocks)
- 2nd Priority (15 Blocks)
- 3rd Priority (30 Blocks)

CLASS DISCHARGE

- 0 ~ 9 l/s
- 10 ~ 24
- 25 ~ 34
- 35 ~ 44
- 45 ~ 54
- 55 l/s or More

SCALE

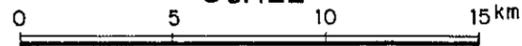
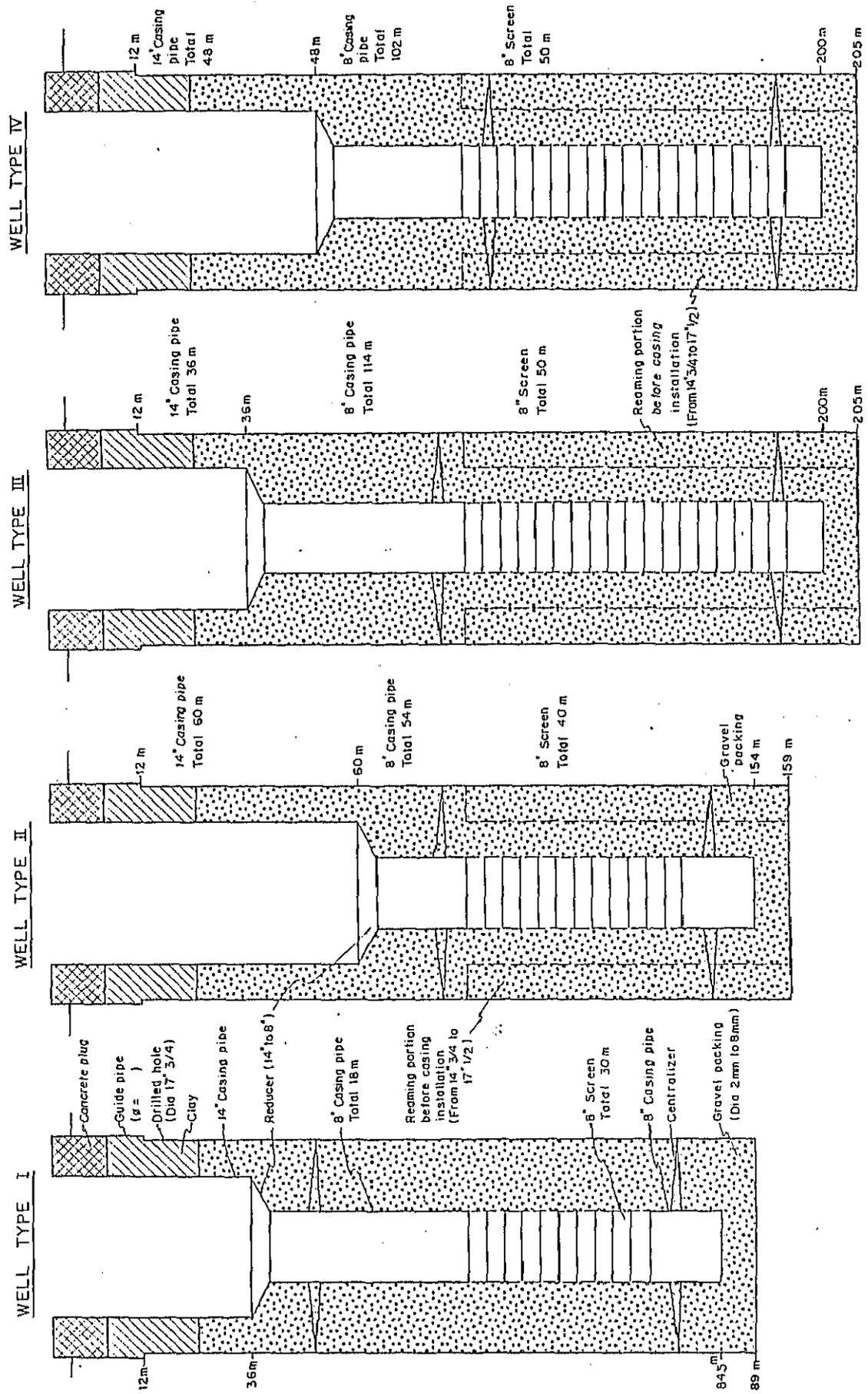
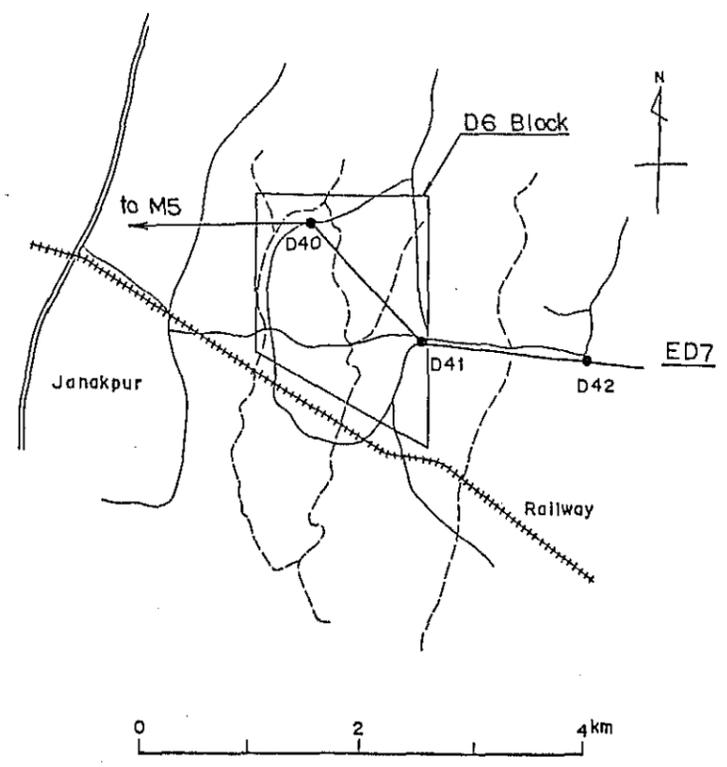
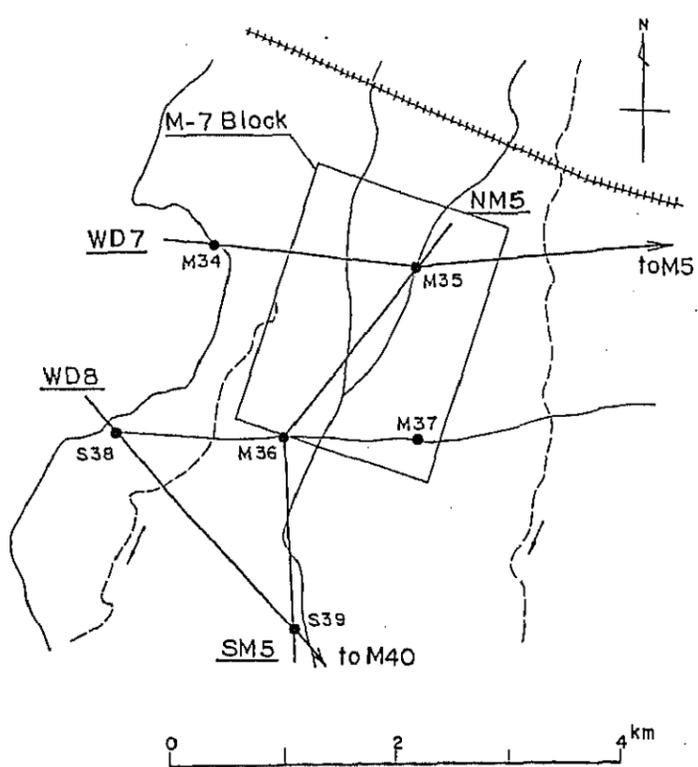
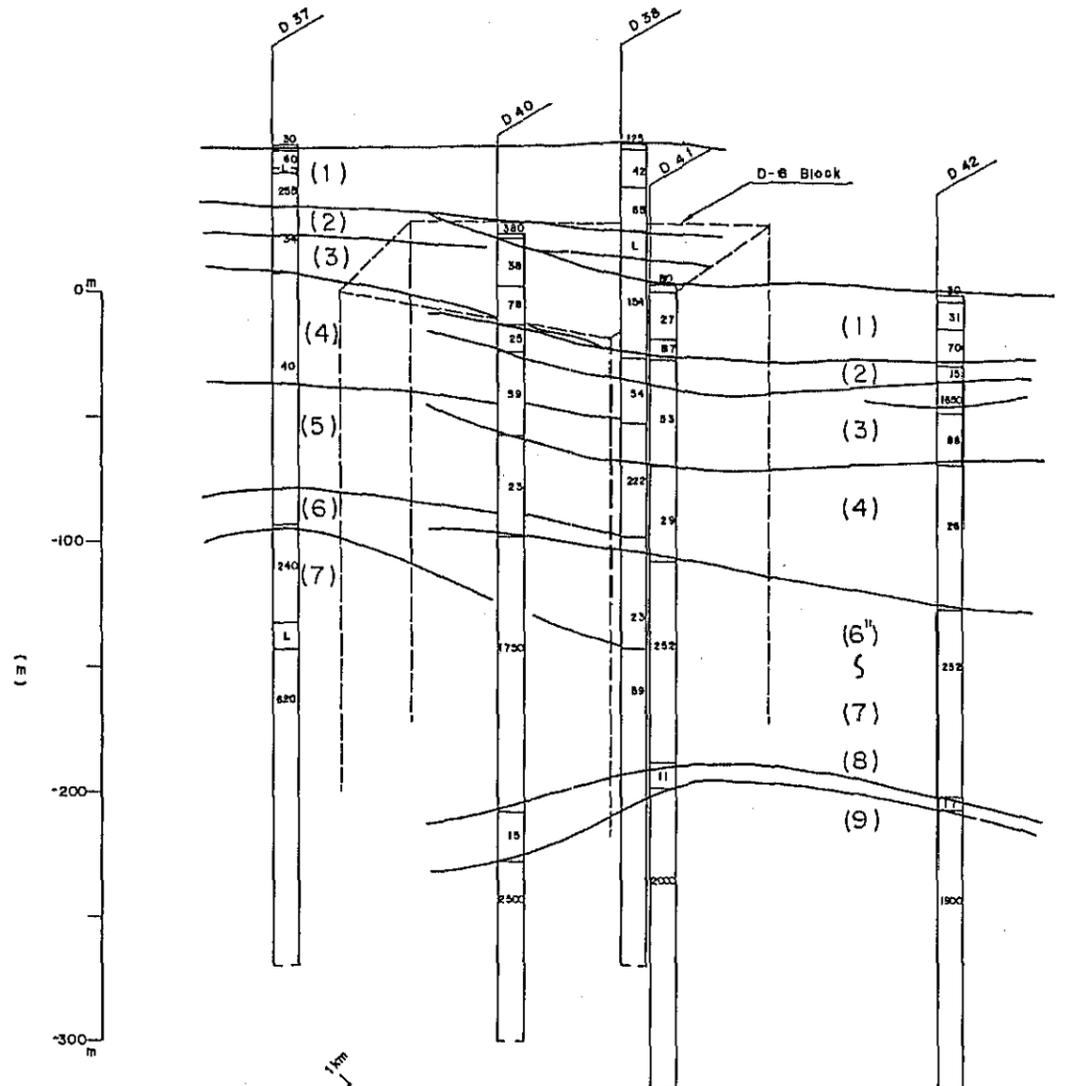
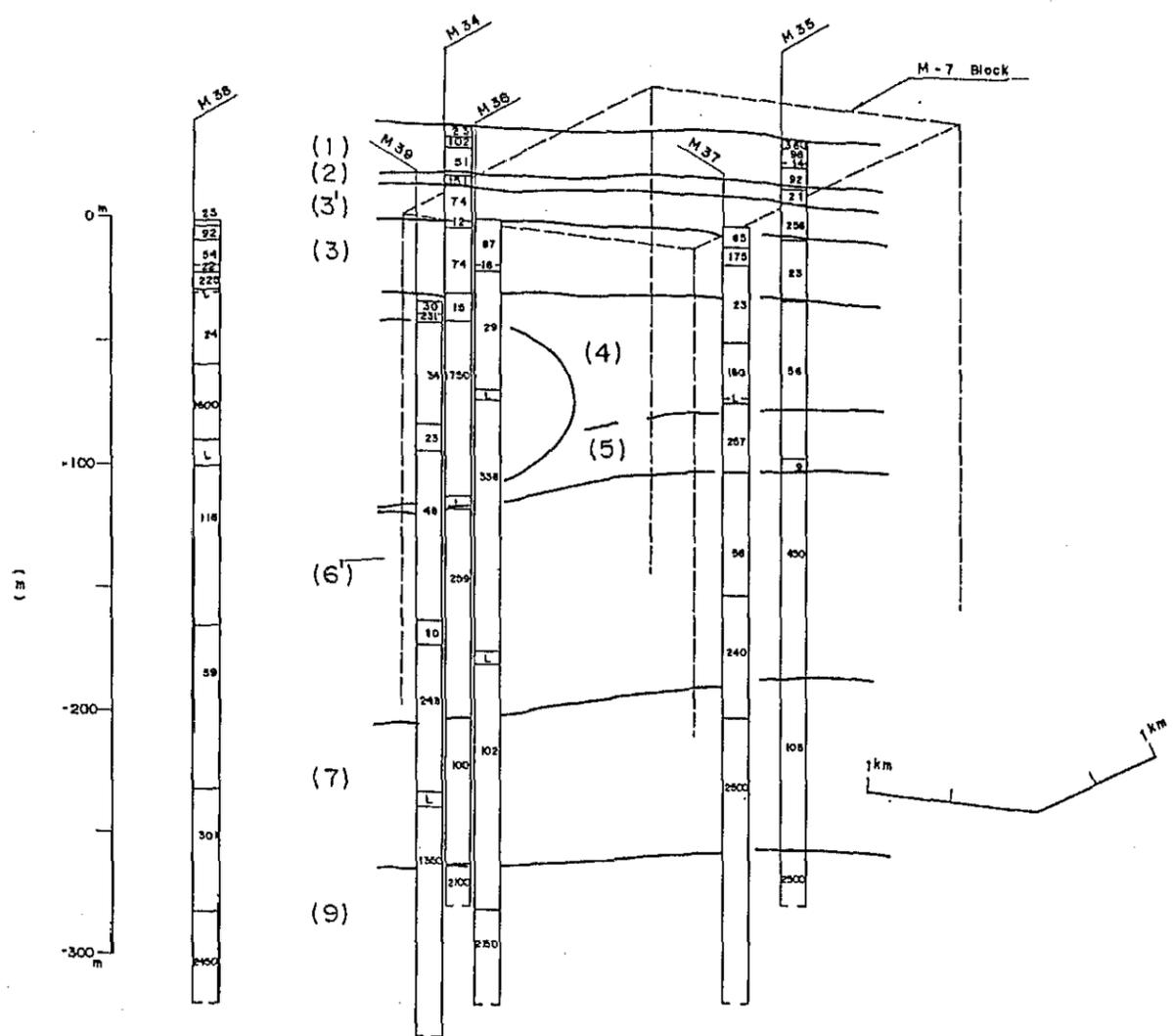


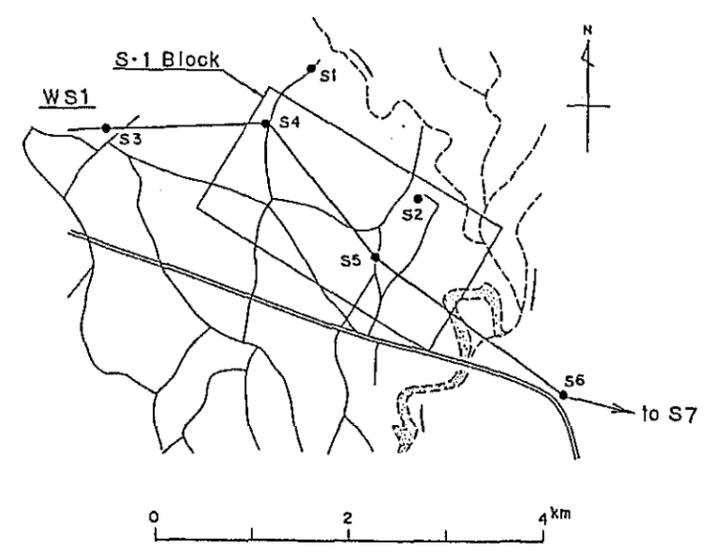
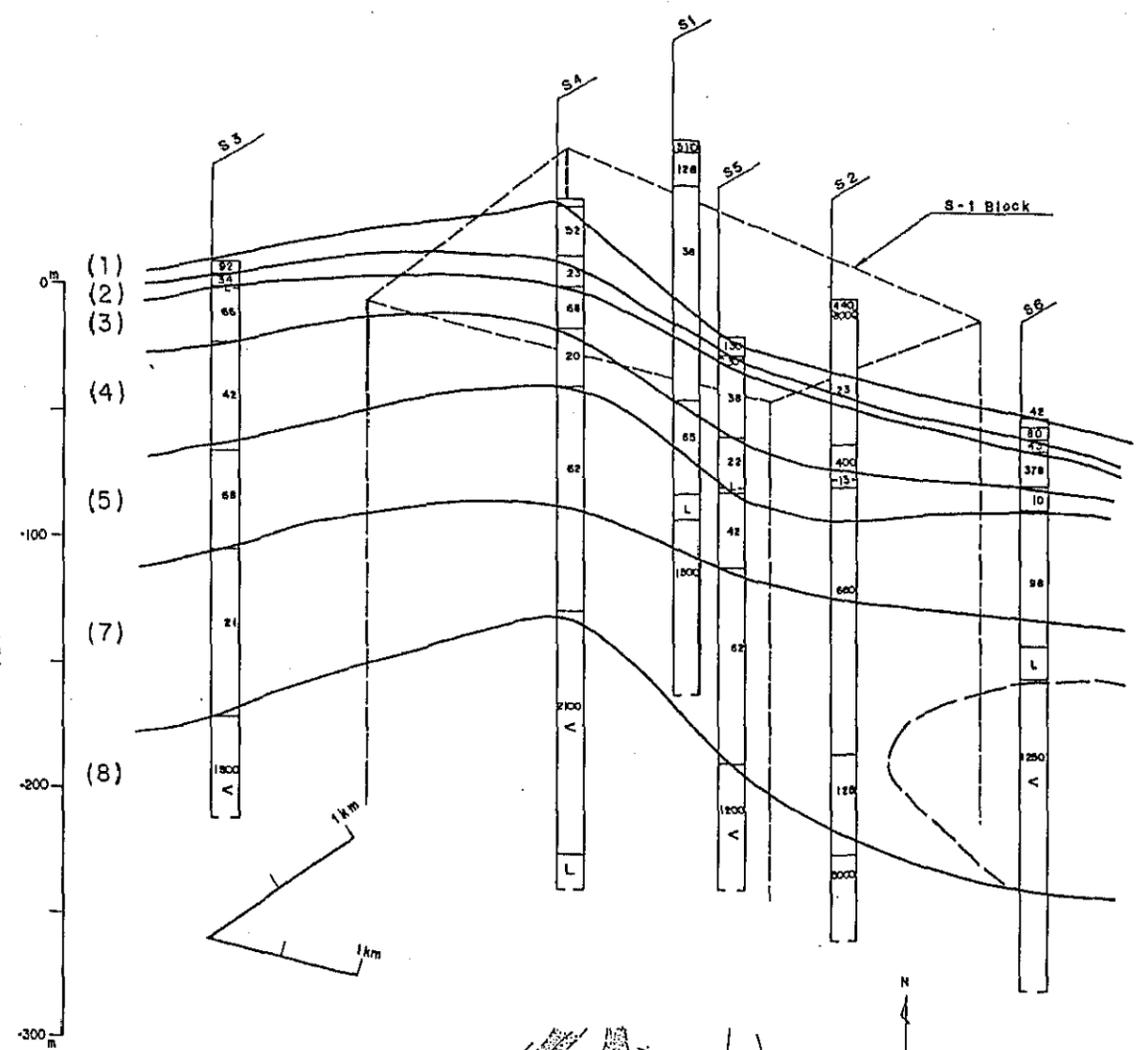
圖 4.2 標準深井戶模式圖



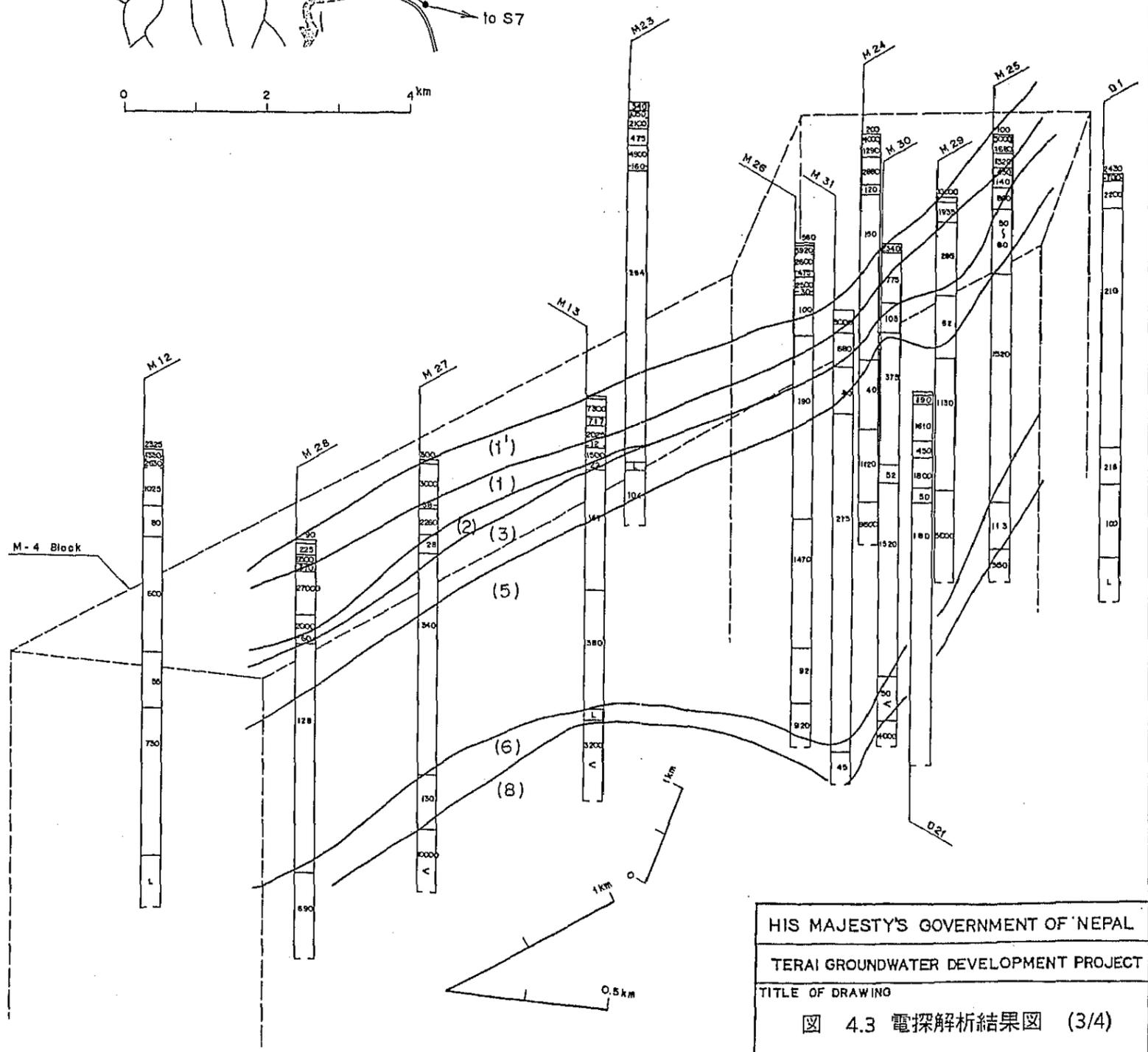
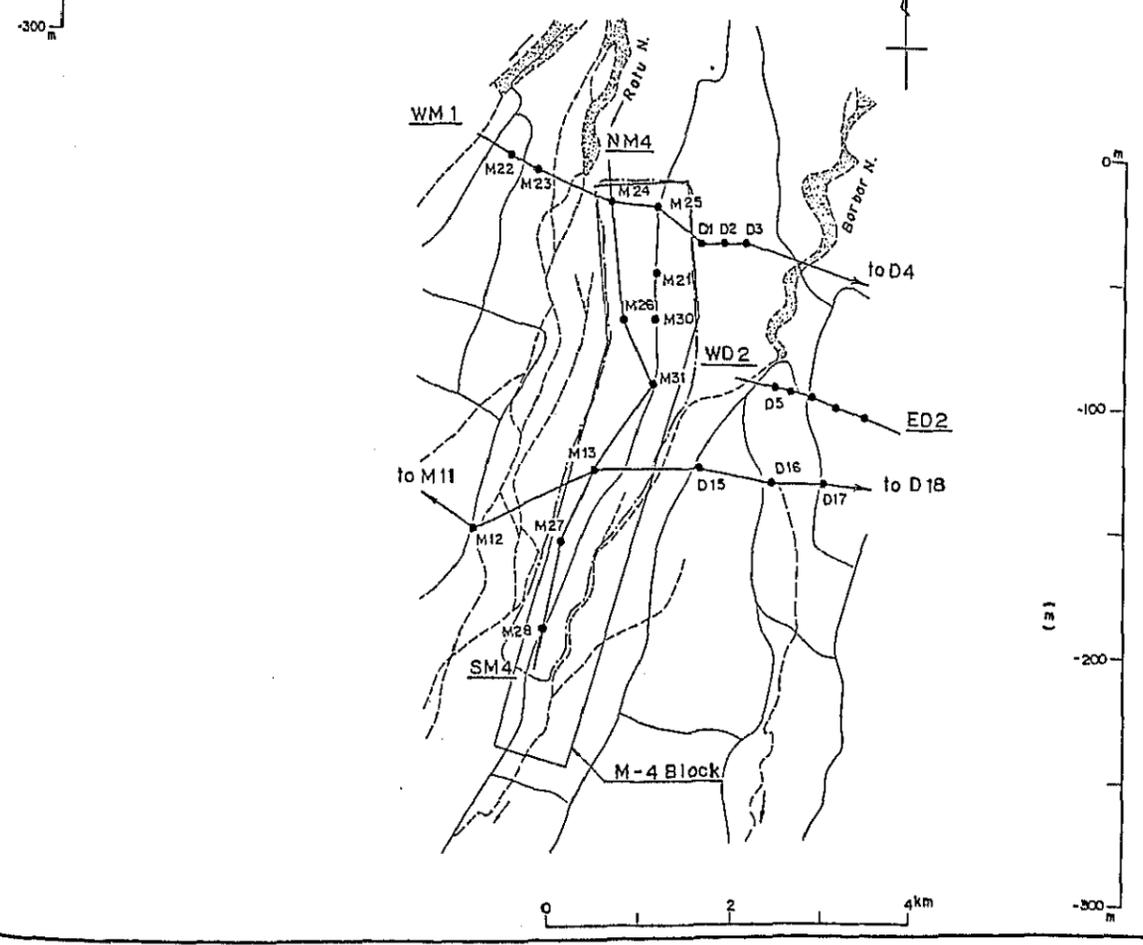


- LEGEND**
- HIGH WAY
 - ROAD
 - - - RIVER
 - ELECTRIC SOUNDINGS POINTS
 - ELECTRIC SOUNDINGS LINES
 - IRRIGATION BLOCK

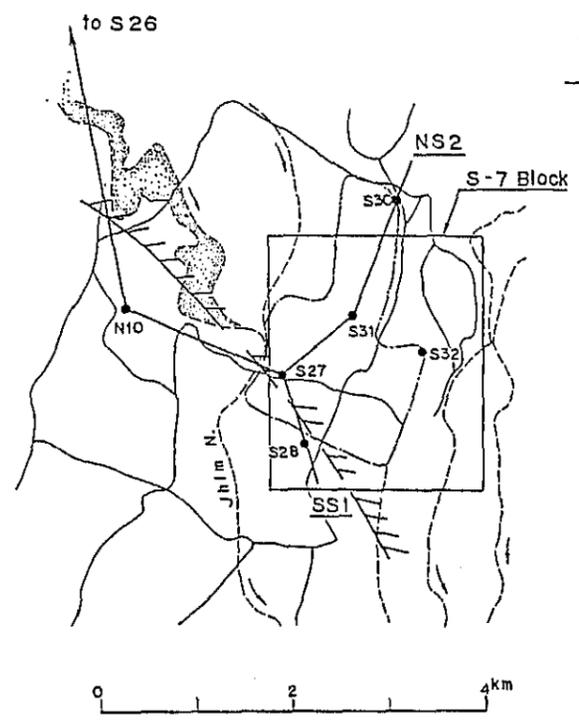
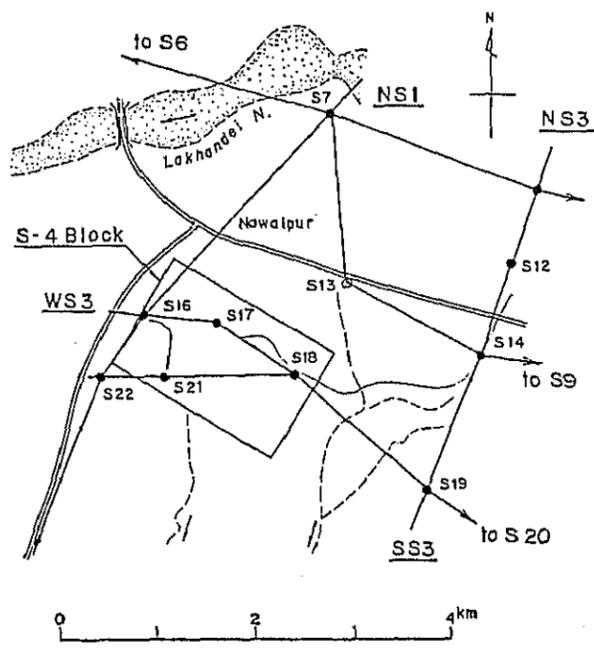
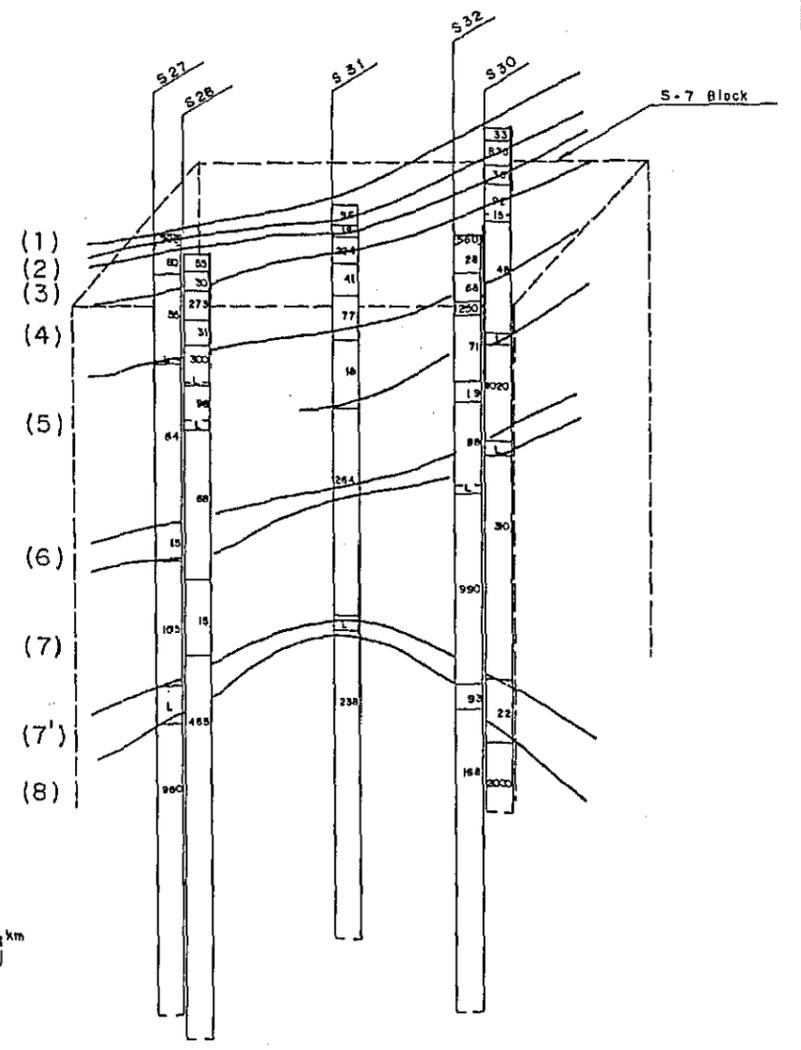
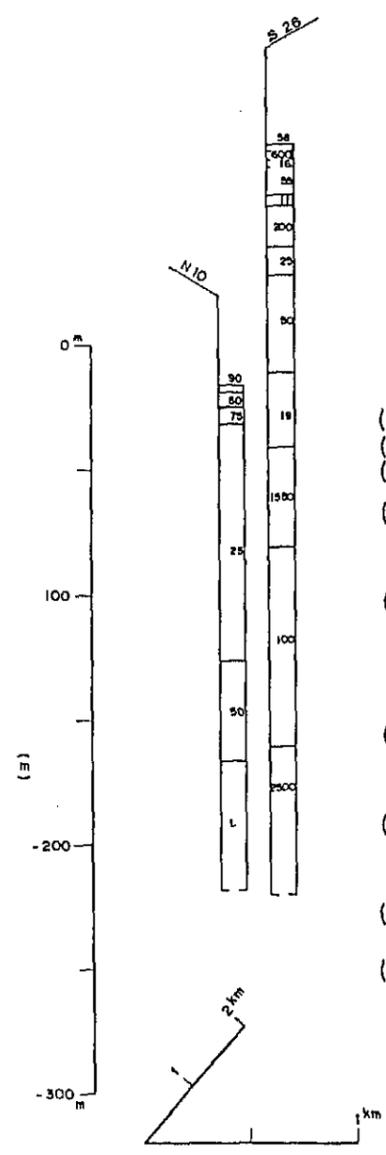
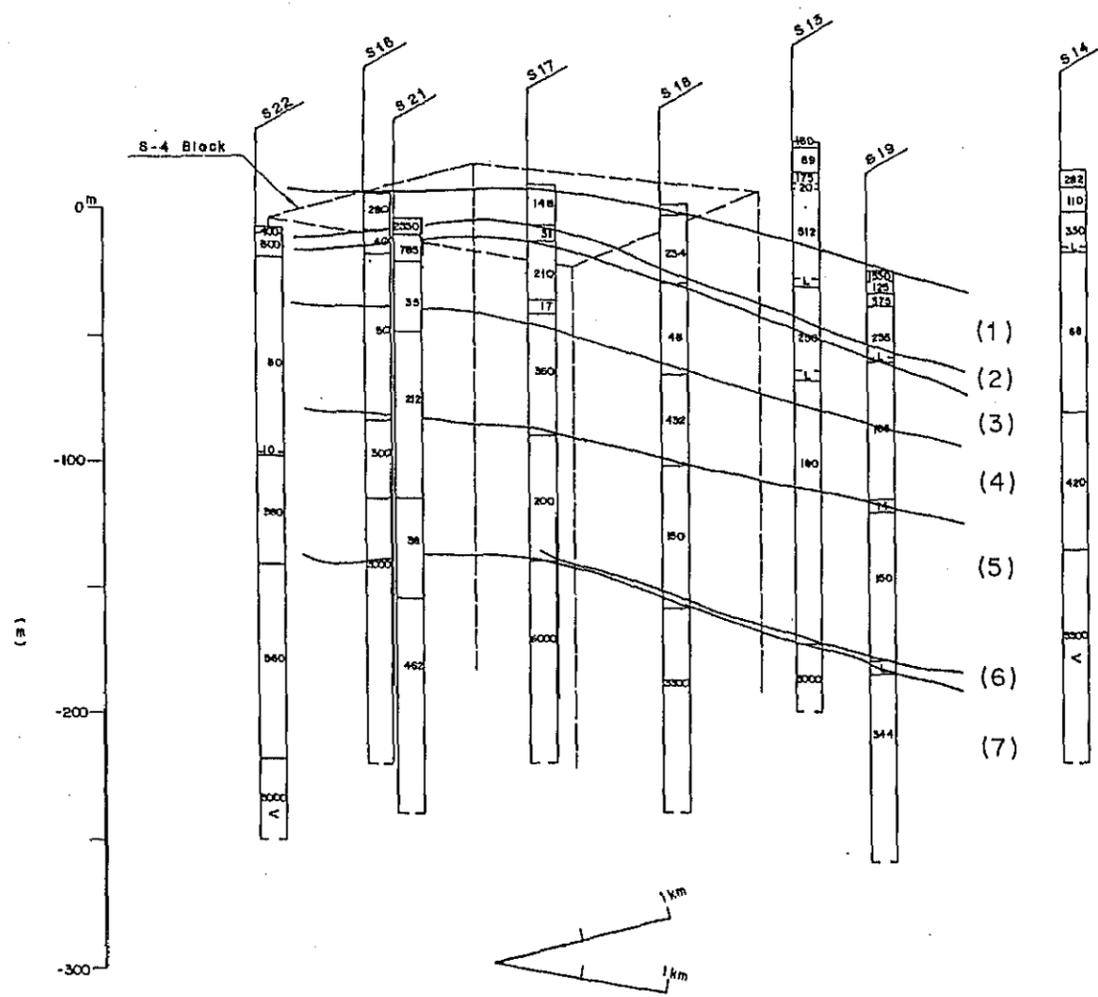
HIS MAJESTY'S GOVERNMENT OF NEPAL		
TERAI GROUNDWATER DEVELOPMENT PROJECT		
TITLE OF DRAWING		
図 4.3 電探解析結果図 (1/4)		
Date	Drawing No.	
JAPAN INTERNATIONAL COOPERATION AGENCY		



- LEGEND**
- HIGH WAY
 - ROAD
 - - - RIVER
 - ELECTRIC SOUNDINGS POINTS
 - ELECTRIC SOUNDINGS LINES
 - IRRIGATION BLOCK



HIS MAJESTY'S GOVERNMENT OF NEPAL		
TERAI GROUNDWATER DEVELOPMENT PROJECT		
TITLE OF DRAWING		
図 4.3 電探解析結果図 (3/4)		
Date	Drawing No.	
JAPAN INTERNATIONAL COOPERATION AGENCY		



LEGEND

- HIGH WAY
- ROAD
- RIVER
- ELECTRIC SOUNDINGS POINTS
- ELECTRIC SOUNDINGS LINES
- IRRIGATION BLOCK
- ▨ HIGH POTENTIALTY AREA

HIS MAJESTY'S GOVERNMENT OF NEPAL	
TERAI GROUNDWATER DEVELOPMENT PROJECT	
TITLE OF DRAWING	
図 4.3 電探解析結果図 (4/4)	
Date	Drawing No.
JAPAN INTERNATIONAL COOPERATION AGENCY	

図 6.1 基本設計2次調査業務実施作業行程表

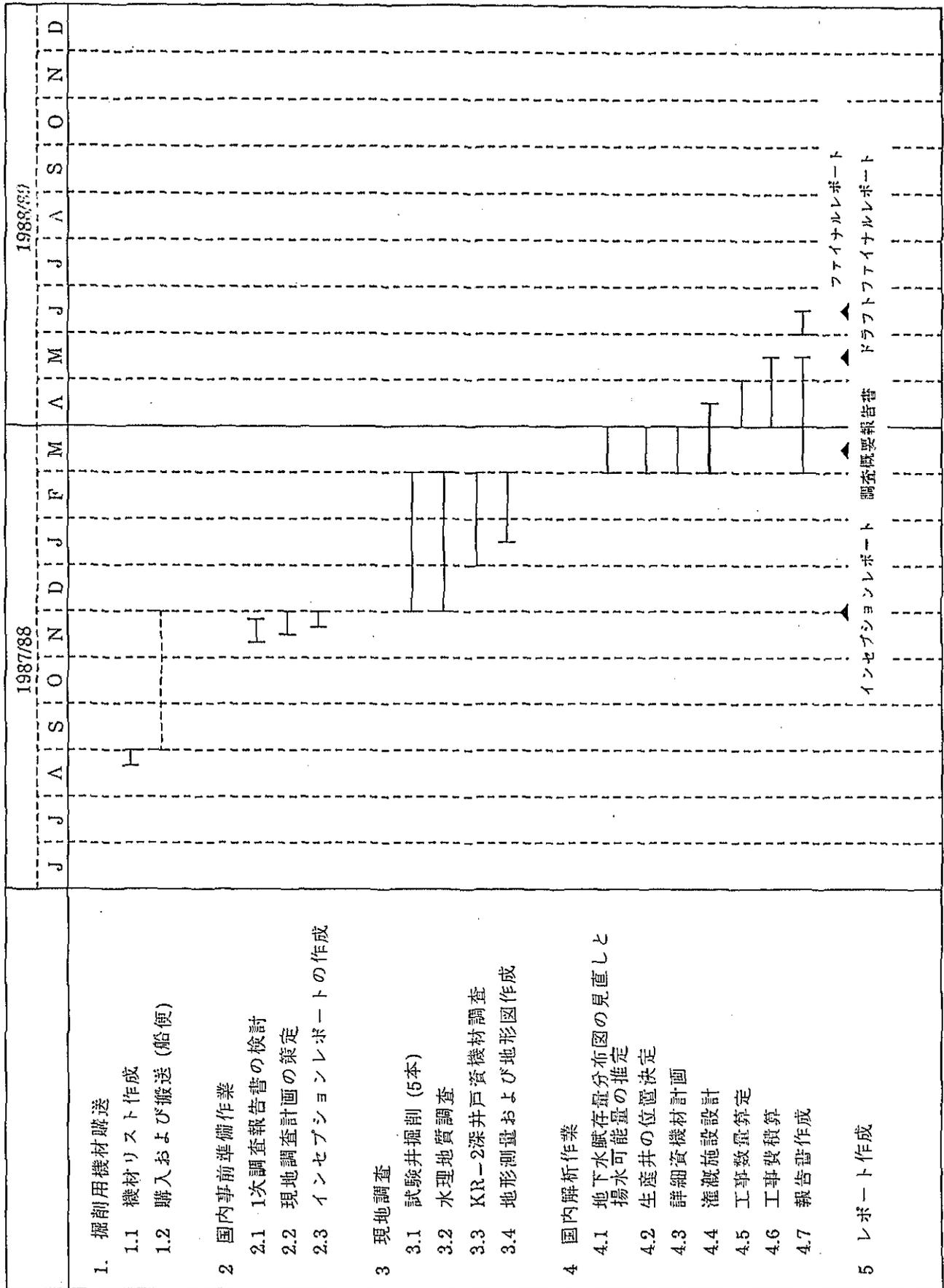
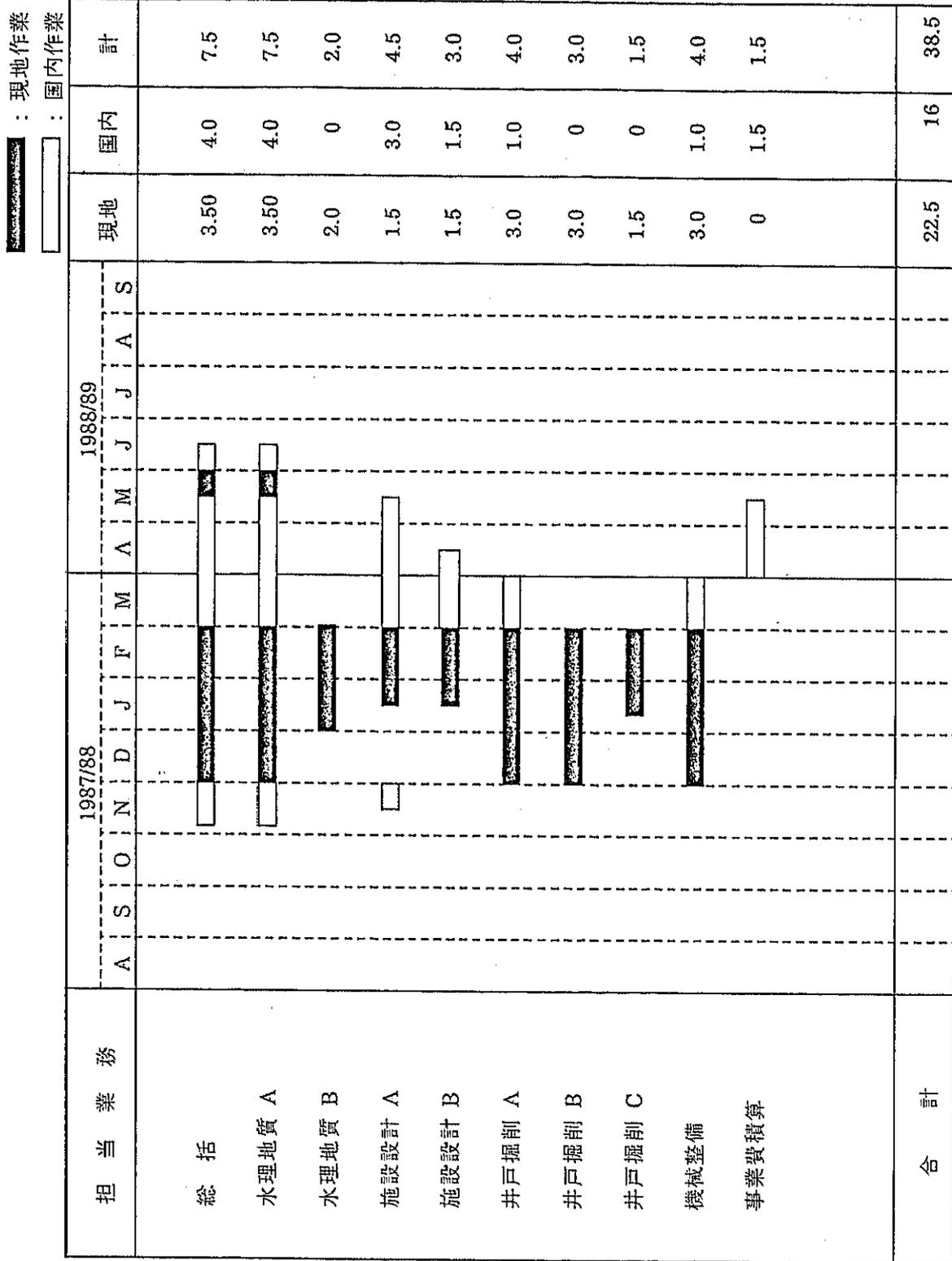


図 6.2 基本設計2次調査要員計画表



注): 本計画表の人・月数は、今後の日本側の協議で変更の可能性がある。

