

FIGURES

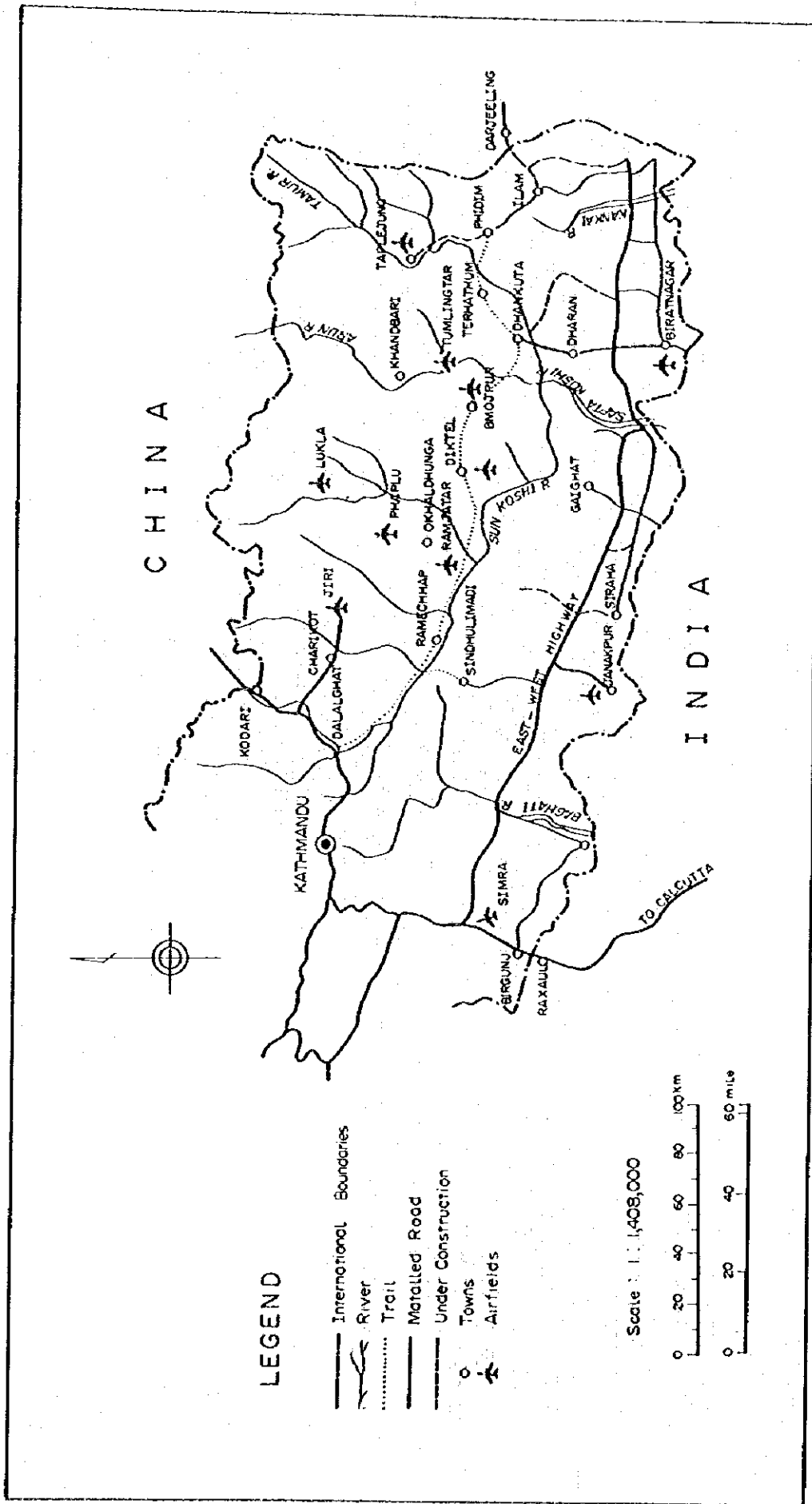


FIG. 3-2 ROADS AND AIRPORTS IN THE STUDY AREA

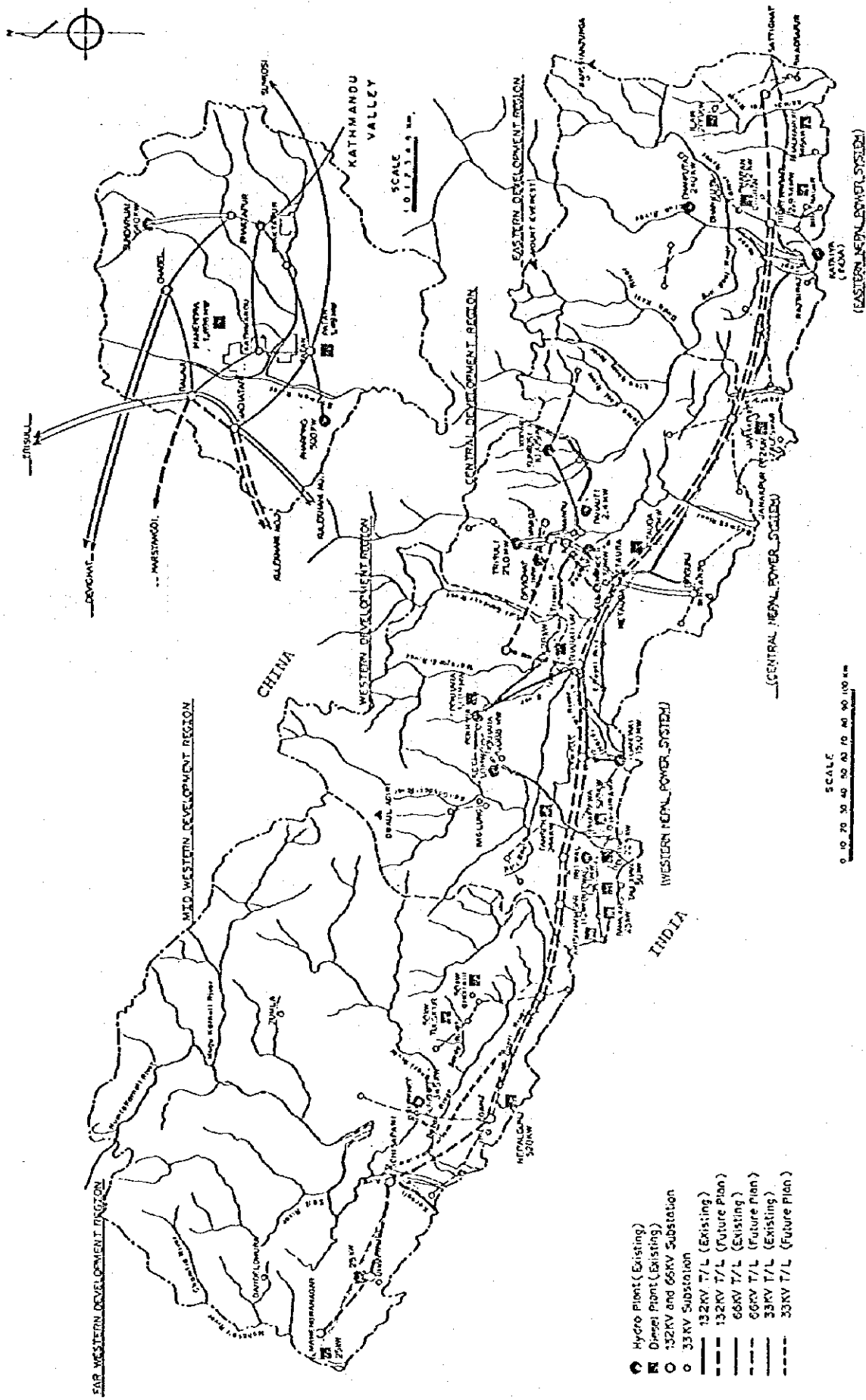


FIG. 5-1 ROUTE MAP OF TRANSMISSION LINES

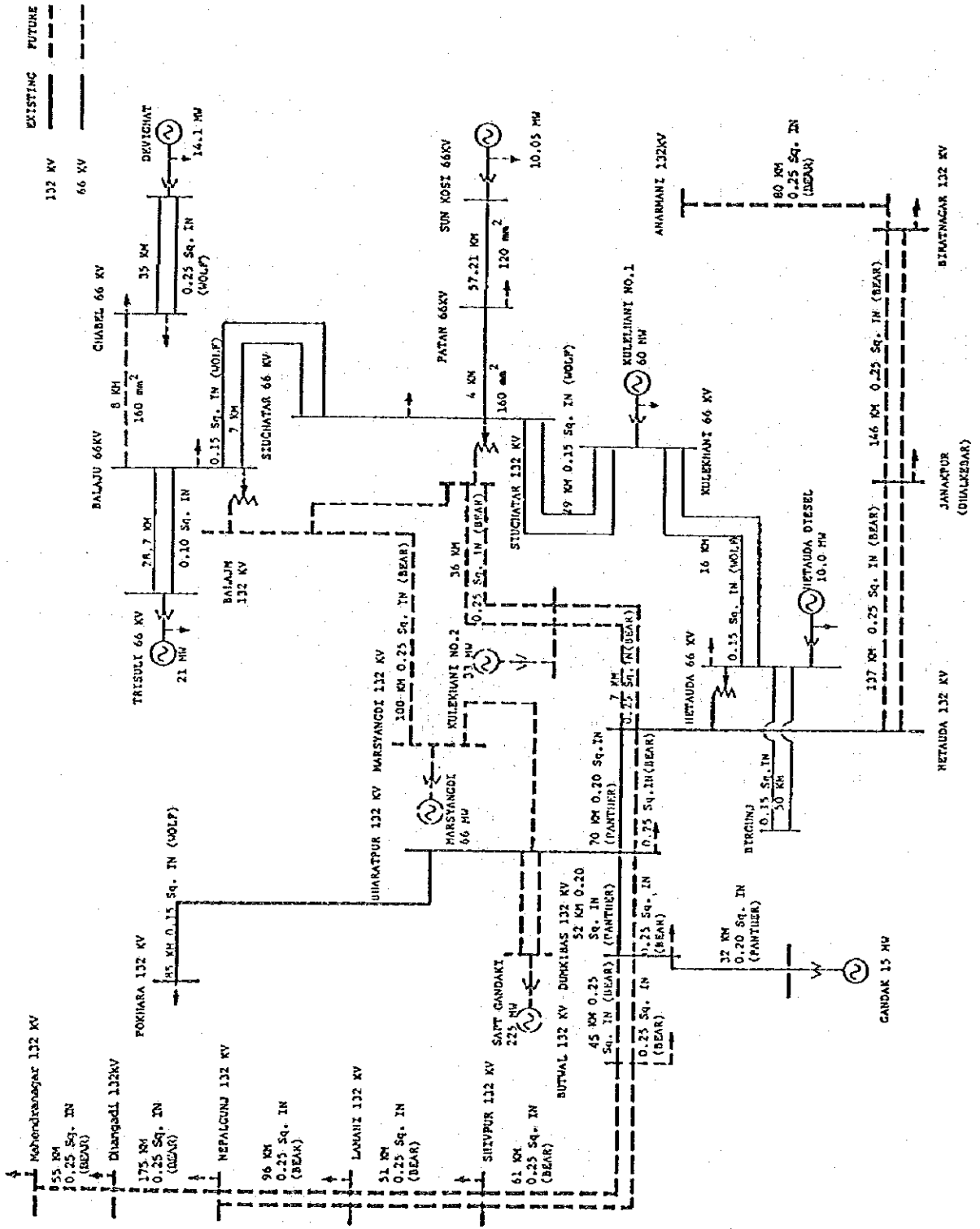


FIG. 5-2 NEPAL POWER SYSTEM DIAGRAM

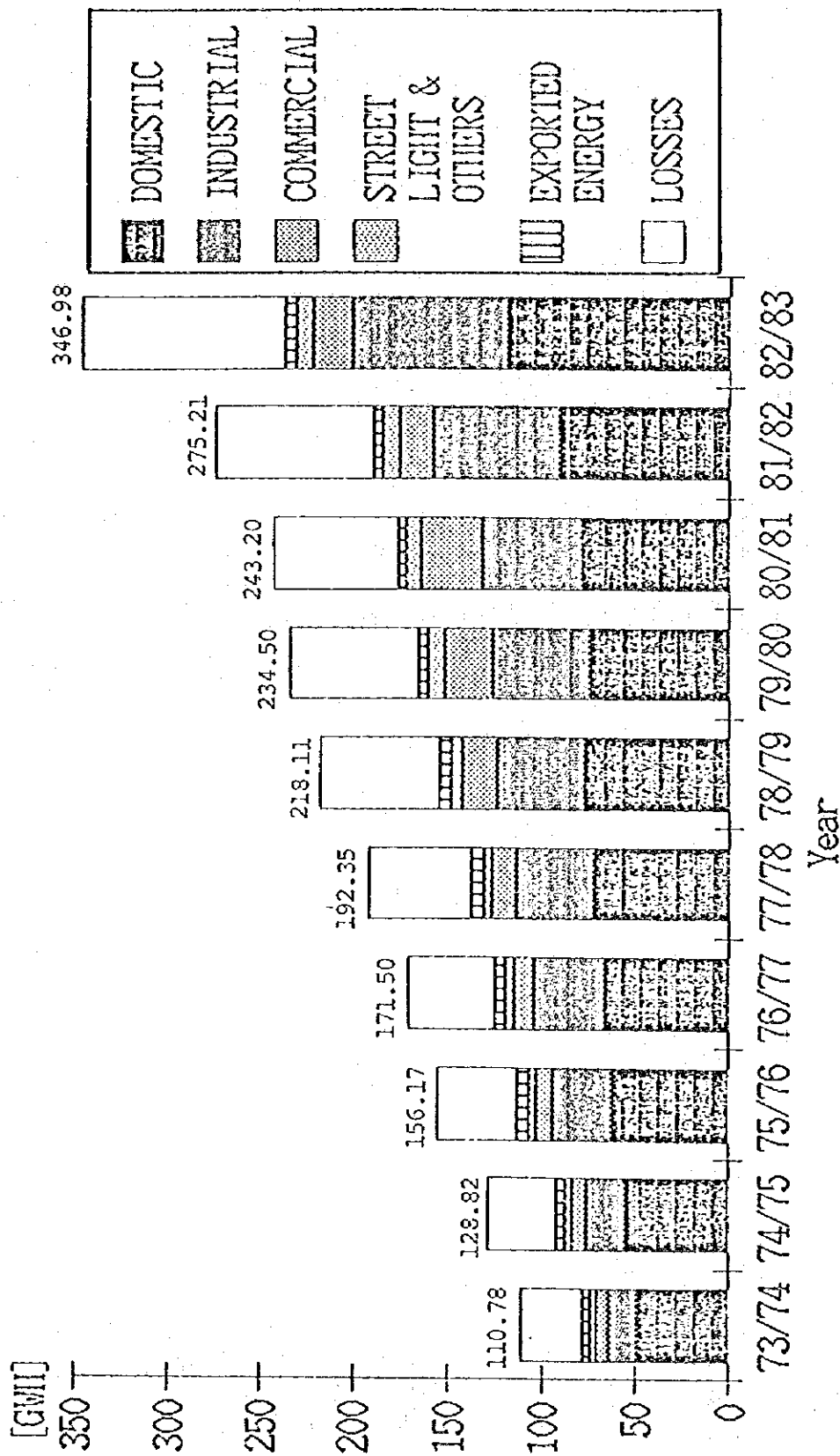


FIG. 5-3 HISTORICAL POWER CONSUMPTION BY TARIFF CATEGORIES

(1973/74 - 1982/83)

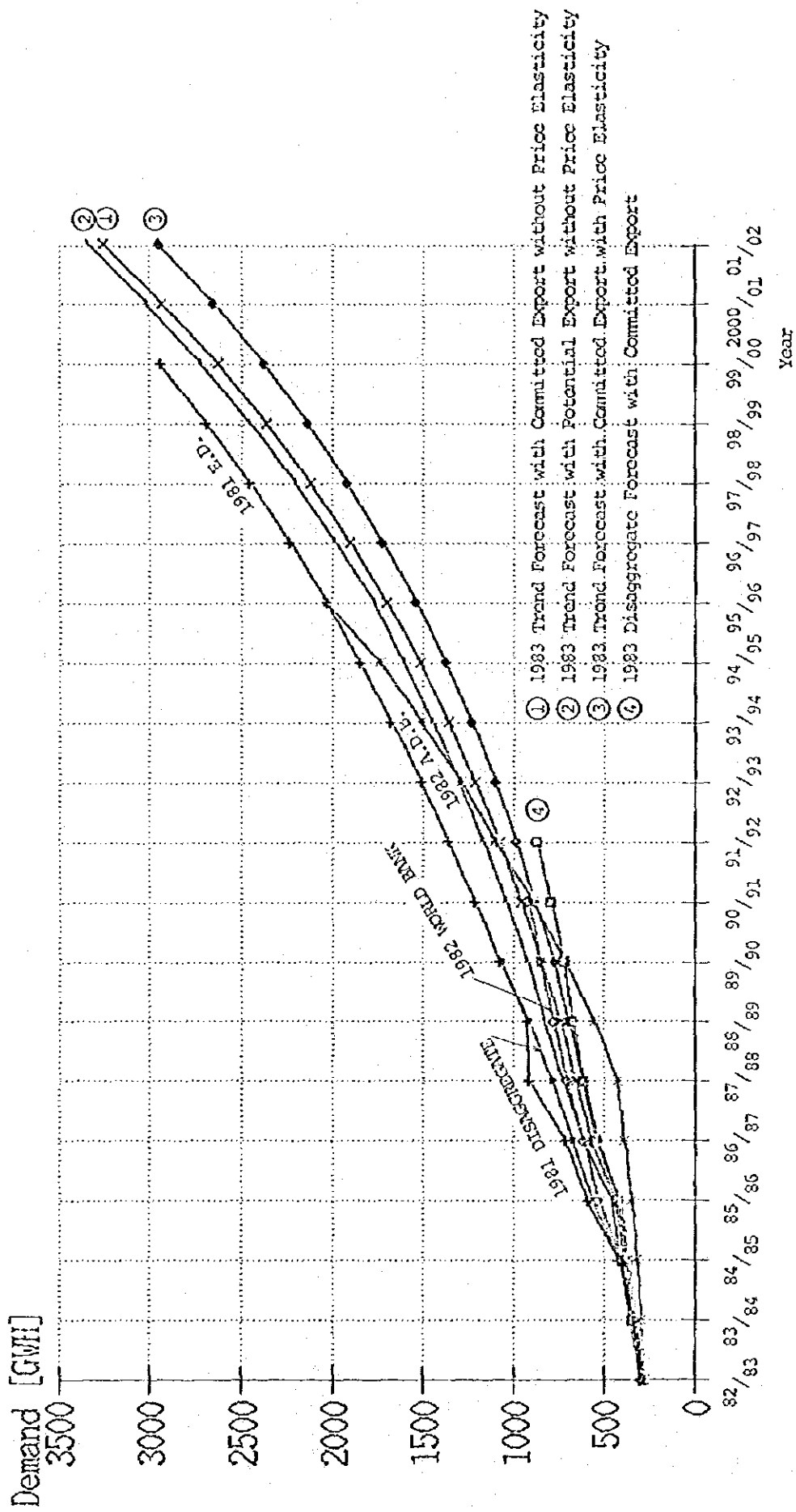


FIG. 5-4 COMPARISON OF 1983 LOAD FORECASTS TO THE PREVIOUS LOAD FORECASTS
(POWER DEMAND, GWh)

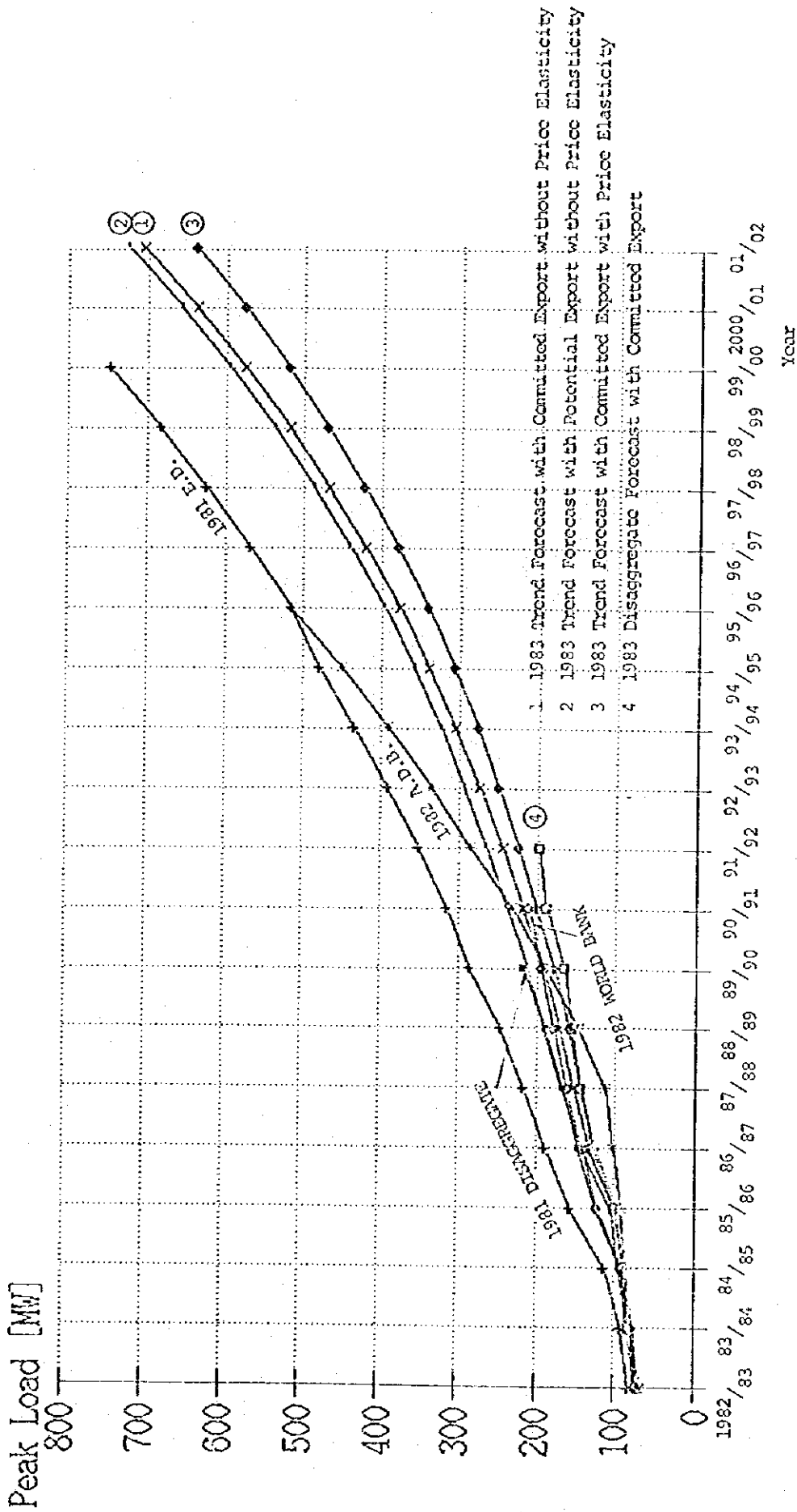


FIG. 5-5 COMPARISON OF 1983 LOAD FORECASTS TO THE PREVIOUS LOAD FORECASTS
(PEAK LOAD, MW)

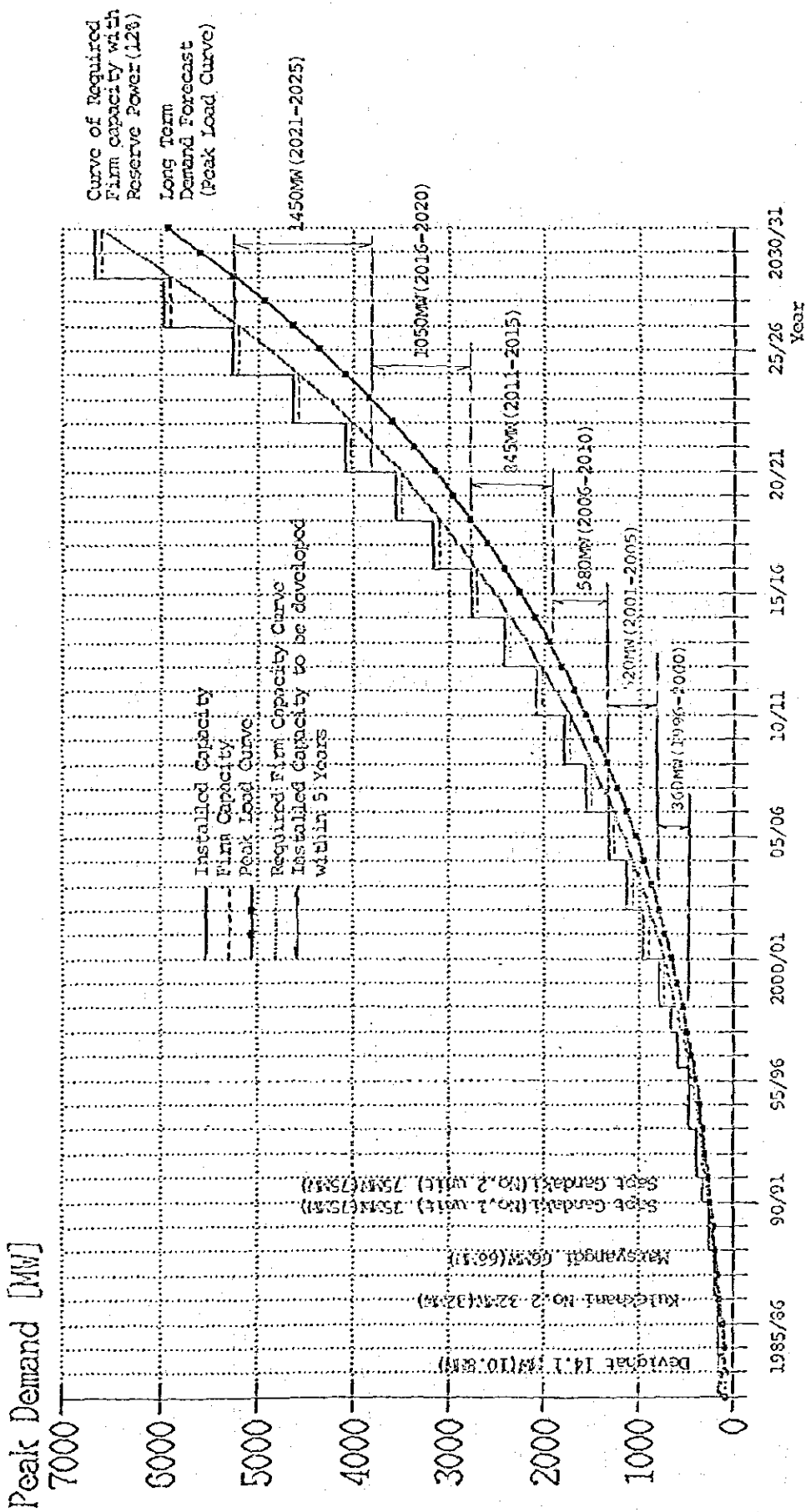


FIG. 5-6 RESULT OF LONG-TERM PEAK LOAD FORECAST AND GENERATION EXPANSION PROGRAM

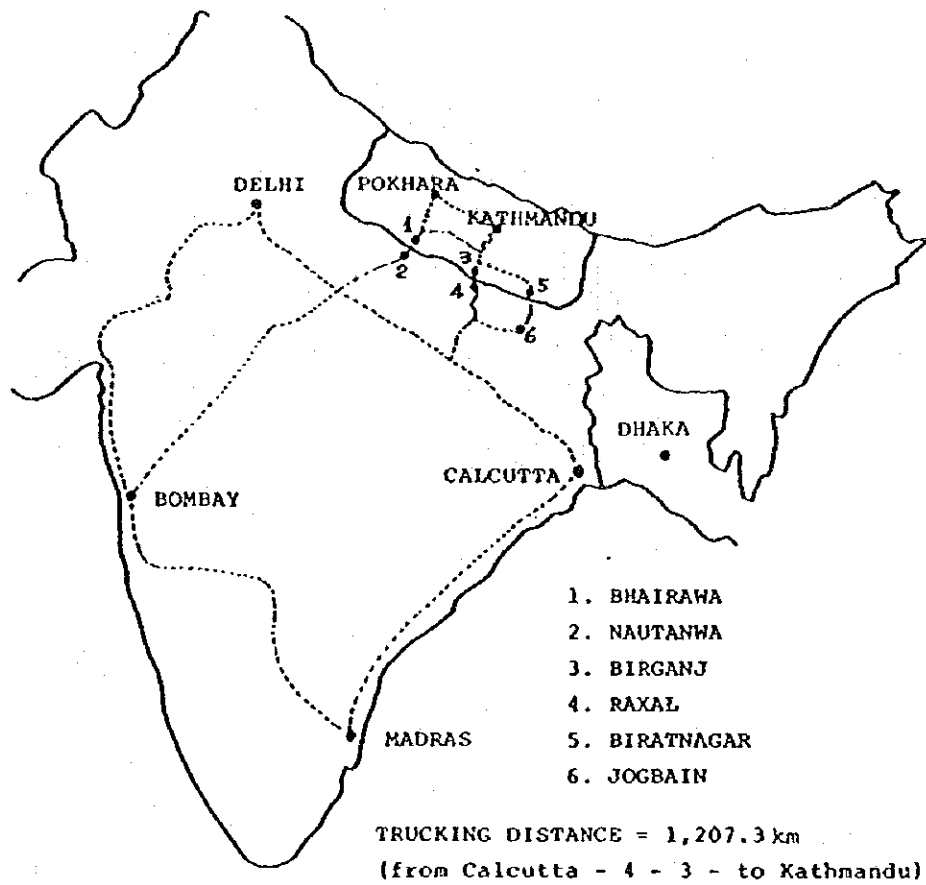


FIG. 5-7 MAJOR TRUCKING ROUTE

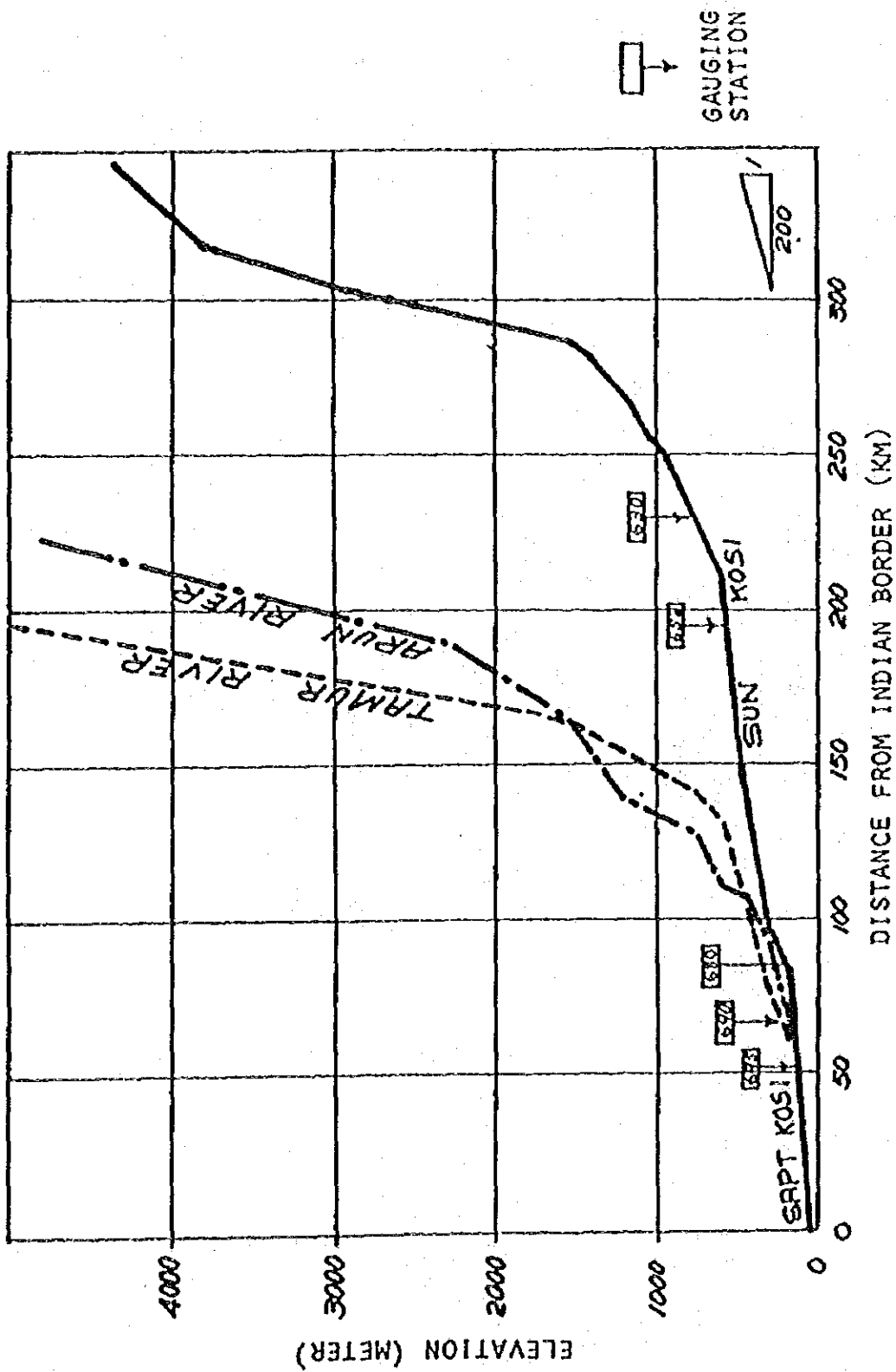


FIG. 5-8 LONGITUDINAL PROFILES AND LOCATIONS OF GAUGING STATIONS

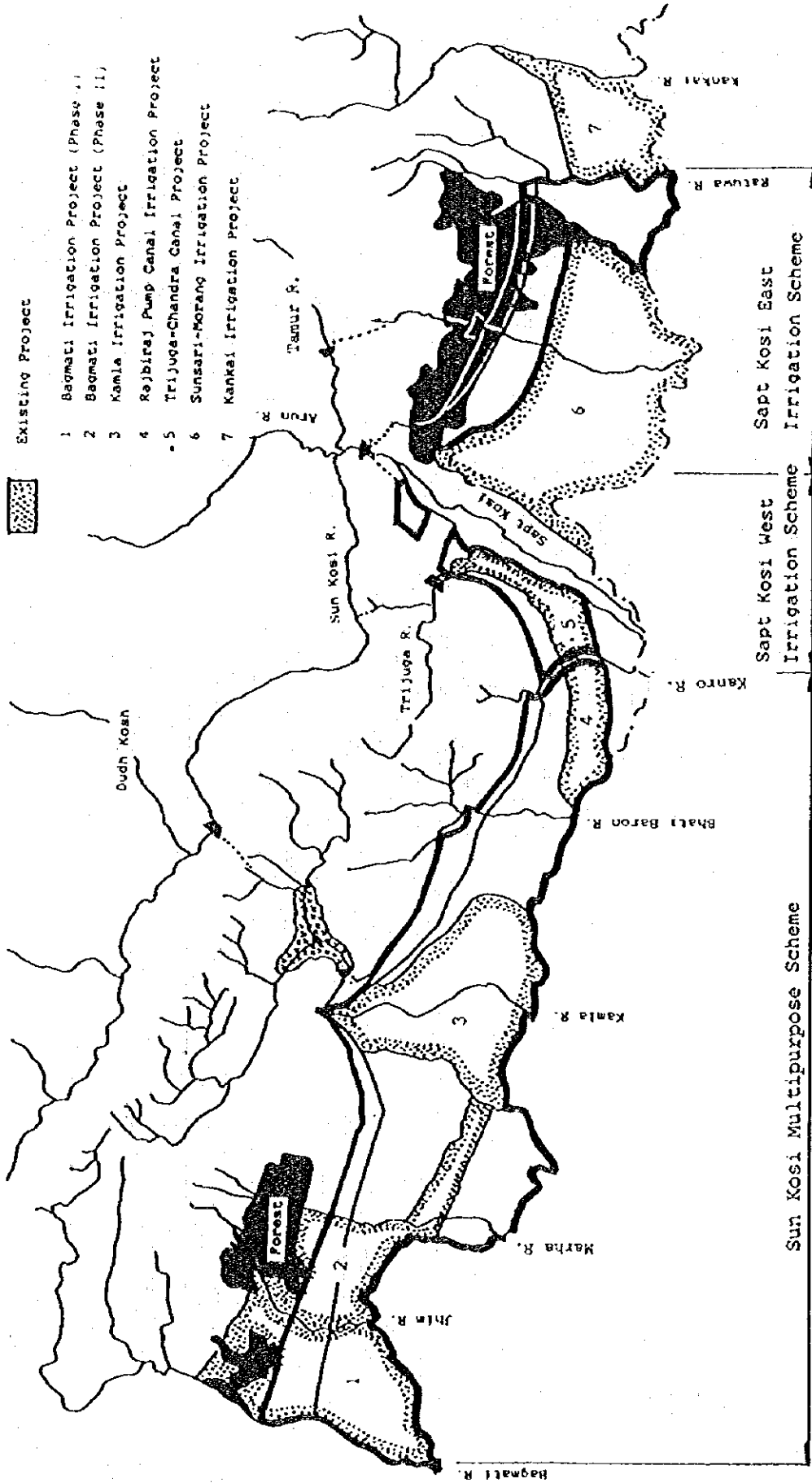


FIG. 5-9 IRRIGATION DEVELOPMENT SCHEMES

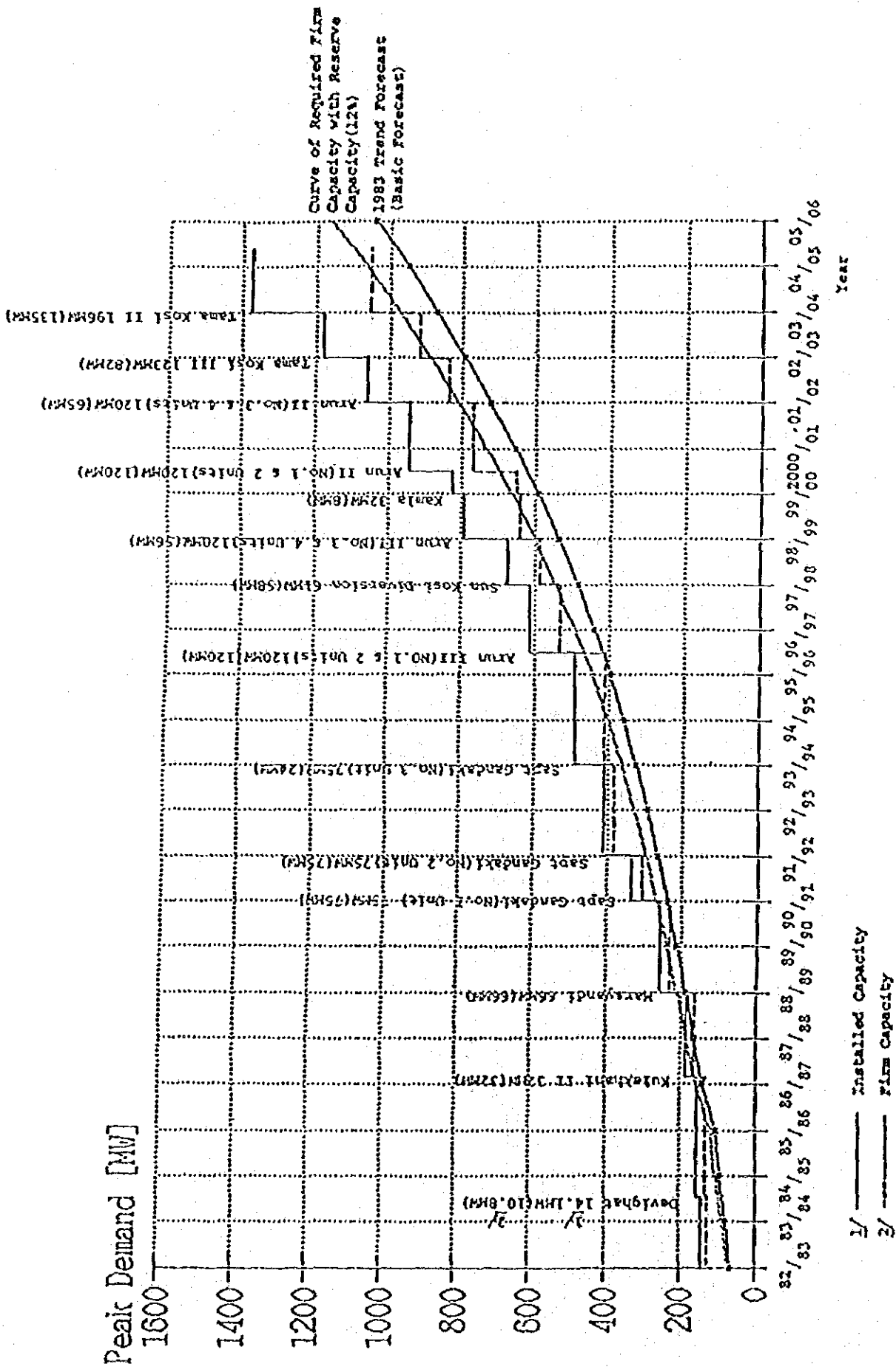


FIG. 7-1 HYDROPOWER DEVELOPMENT PROGRAM UP TO 2005 (ALTERNATIVE-II)

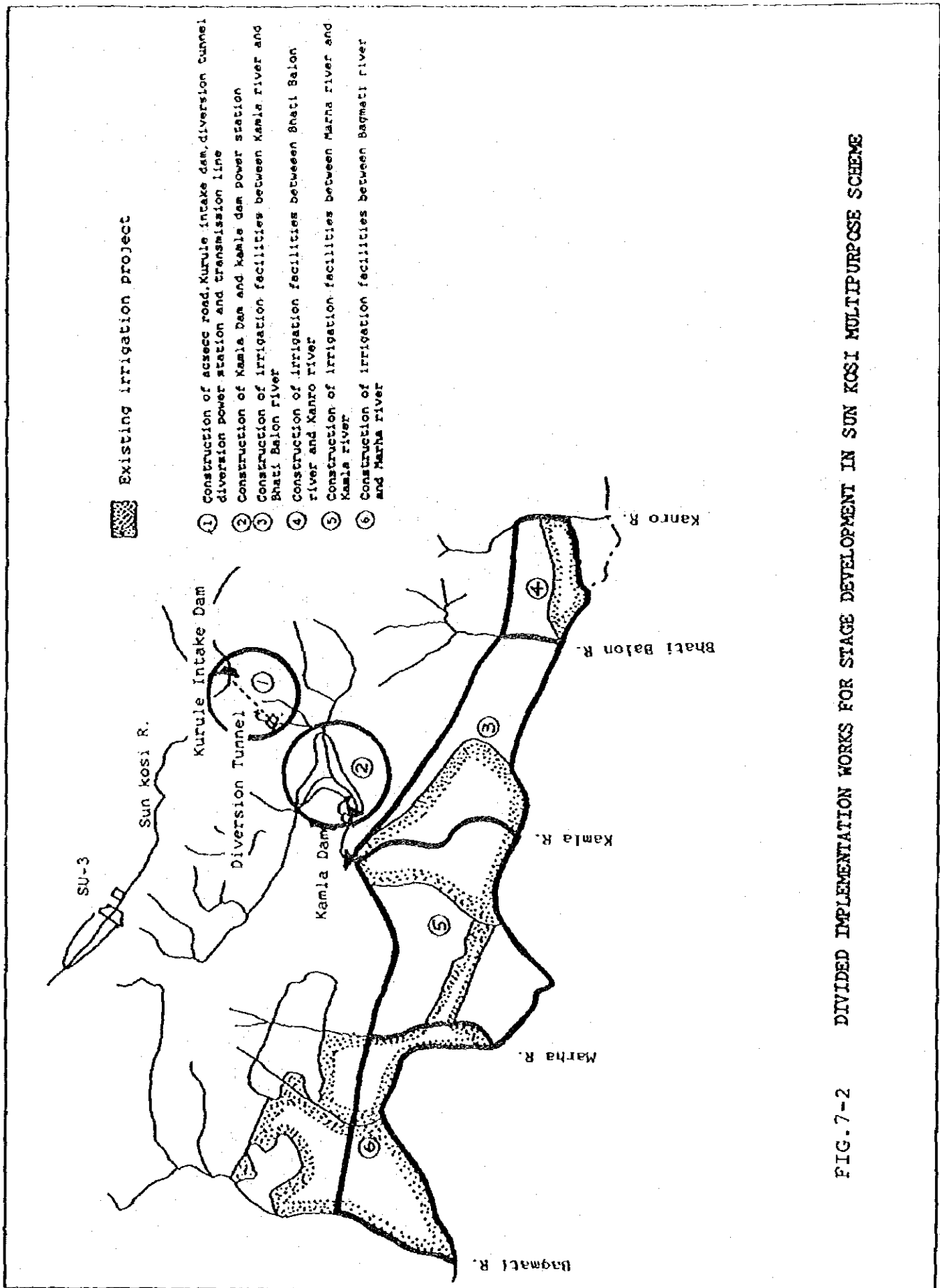


FIG. 7-2 DIVIDED IMPLEMENTATION WORKS FOR STAGE DEVELOPMENT IN SUN KOSI MULTIPURPOSE SCHEME

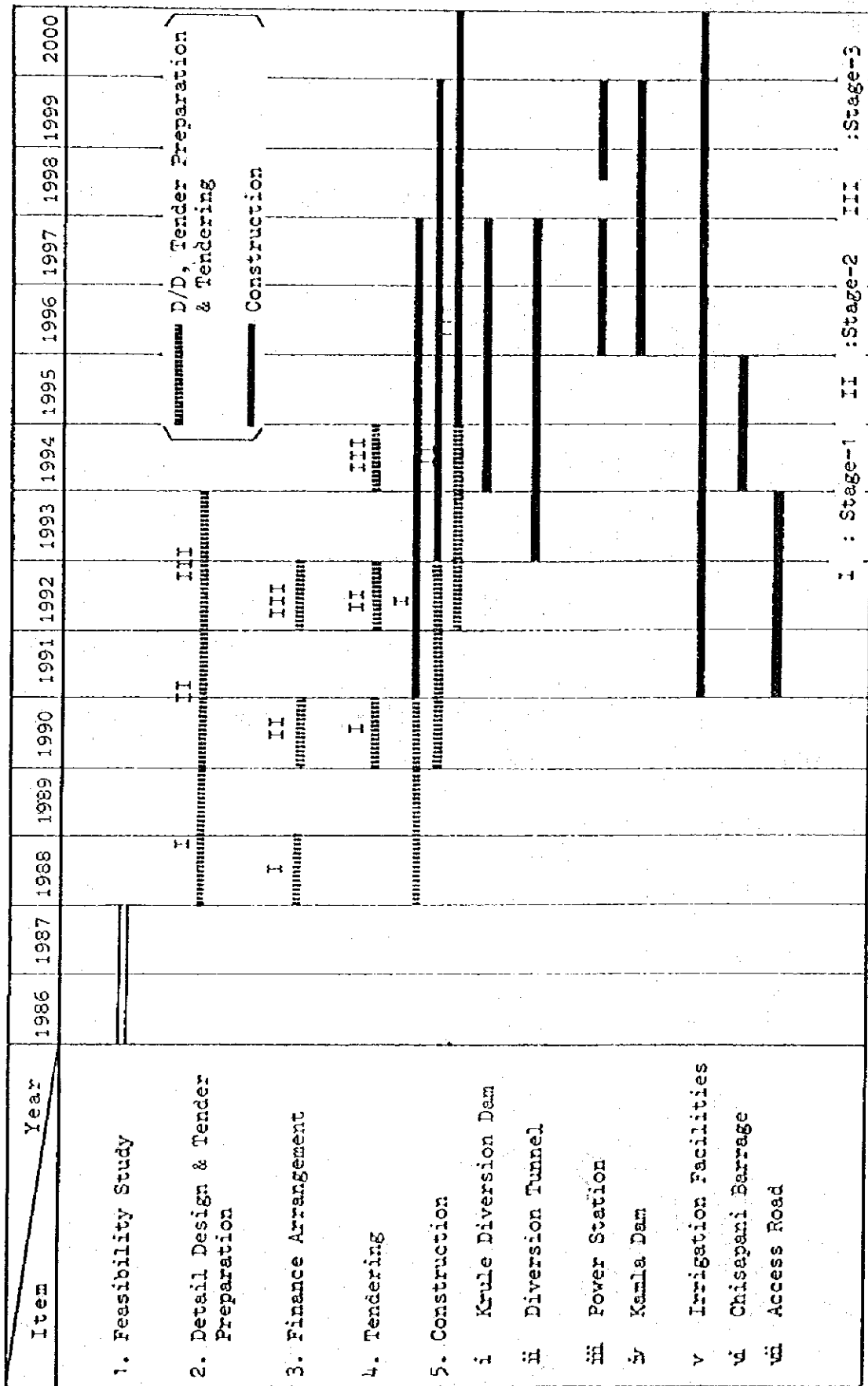
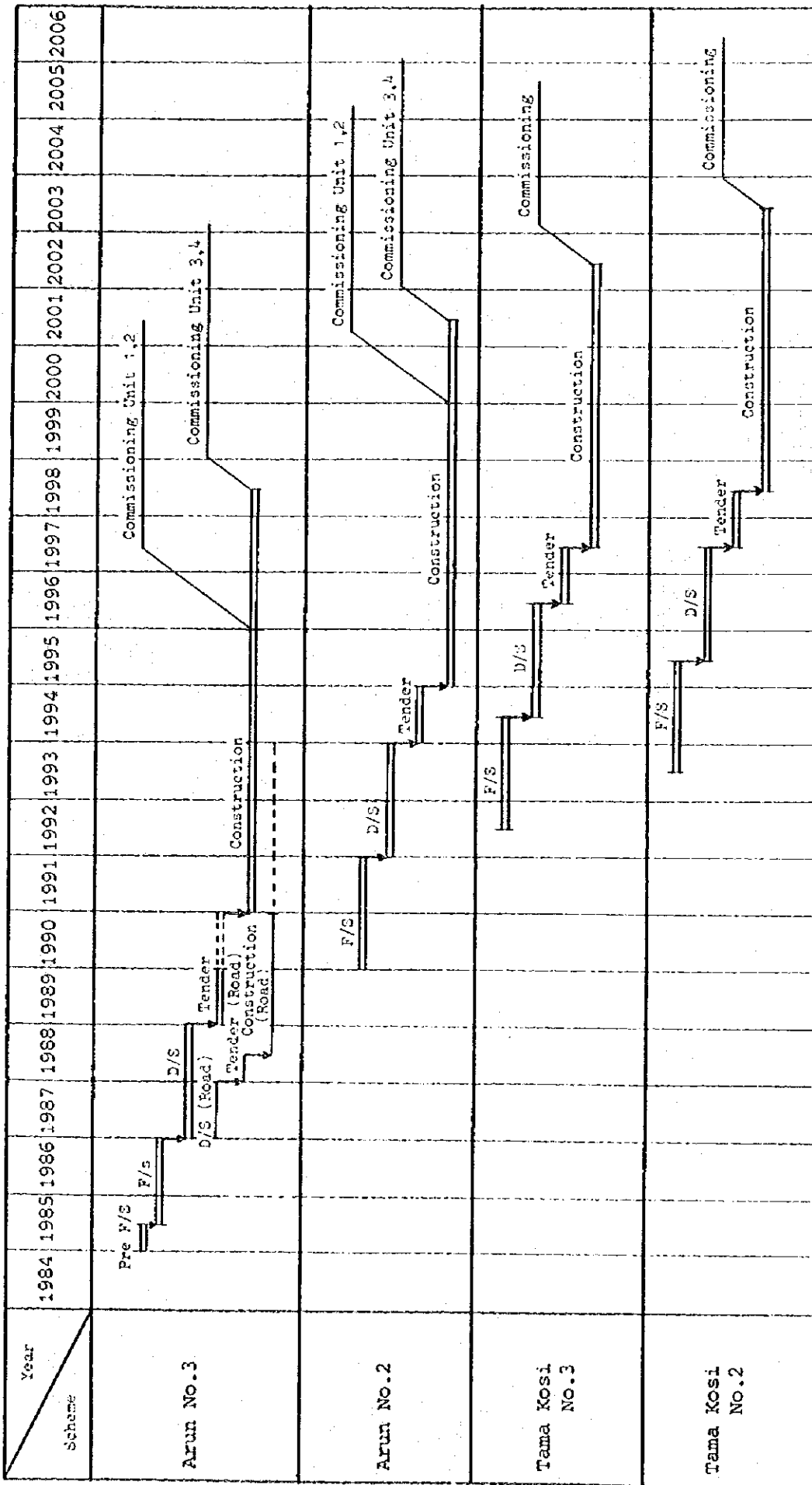
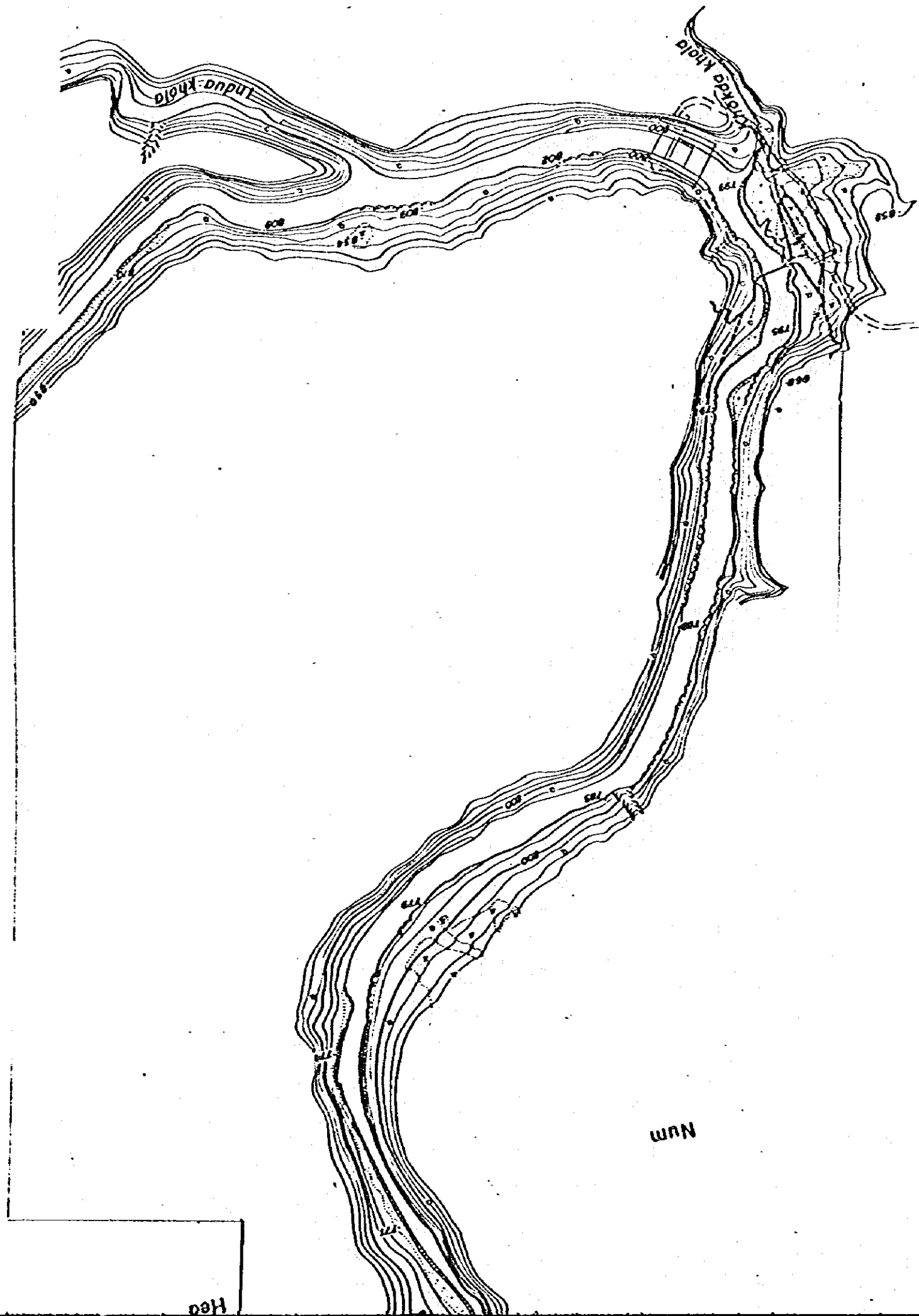


FIG. 7-3 IMPLEMENTATION SCHEDULE OF SUN KOSI MULTIPURPOSE SCHEME (Phase I)



F/S : Feasibility Study D/S : Design Stage

FIG. 7-4 IMPLEMENTATION SCHEDULE OF RECOMMENDED ALTERNATIVE II



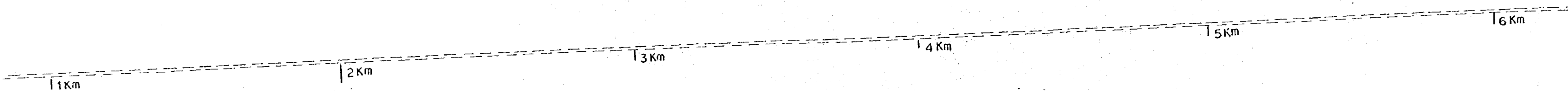
1 Km

2 Km

7
u

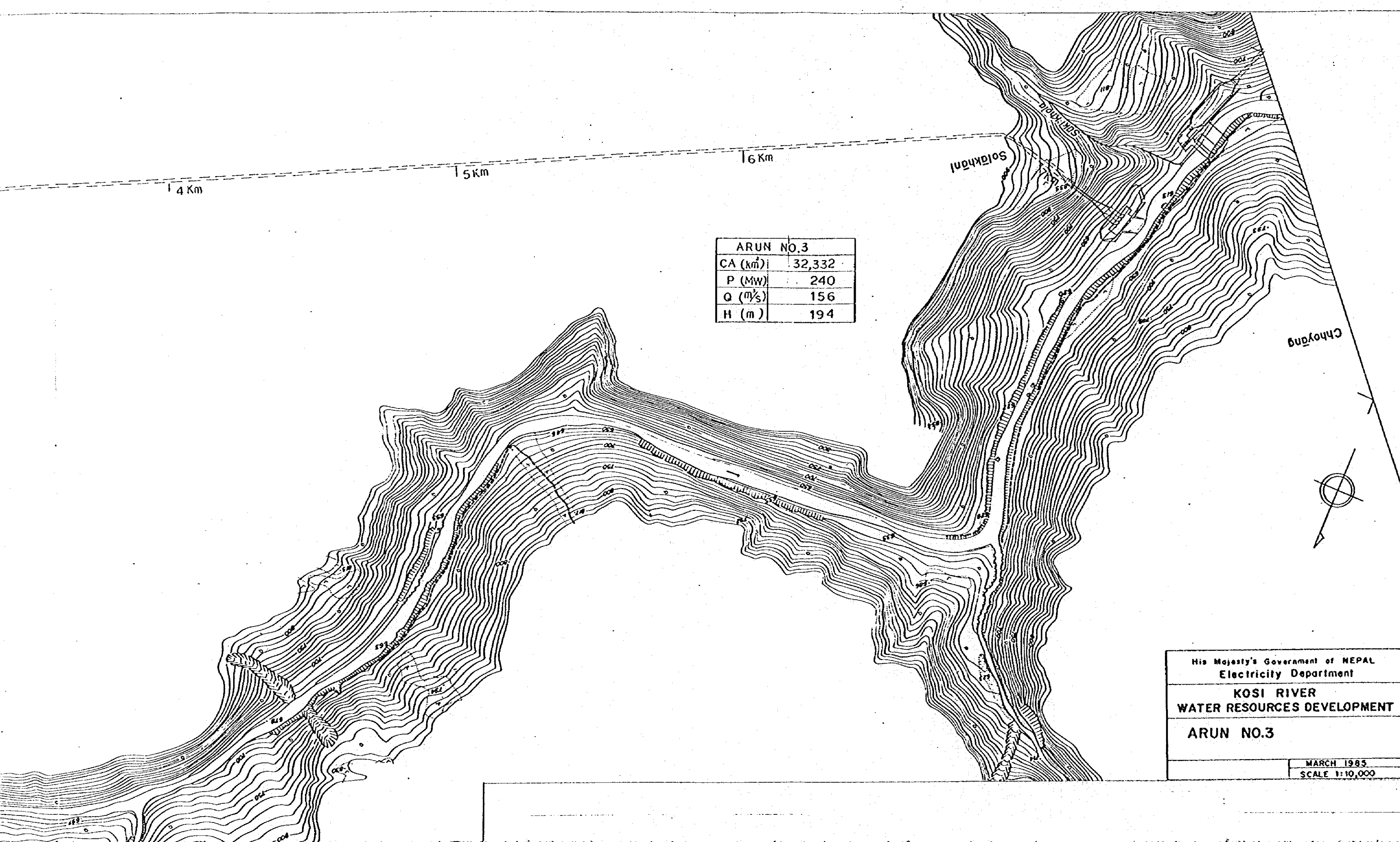
Hed





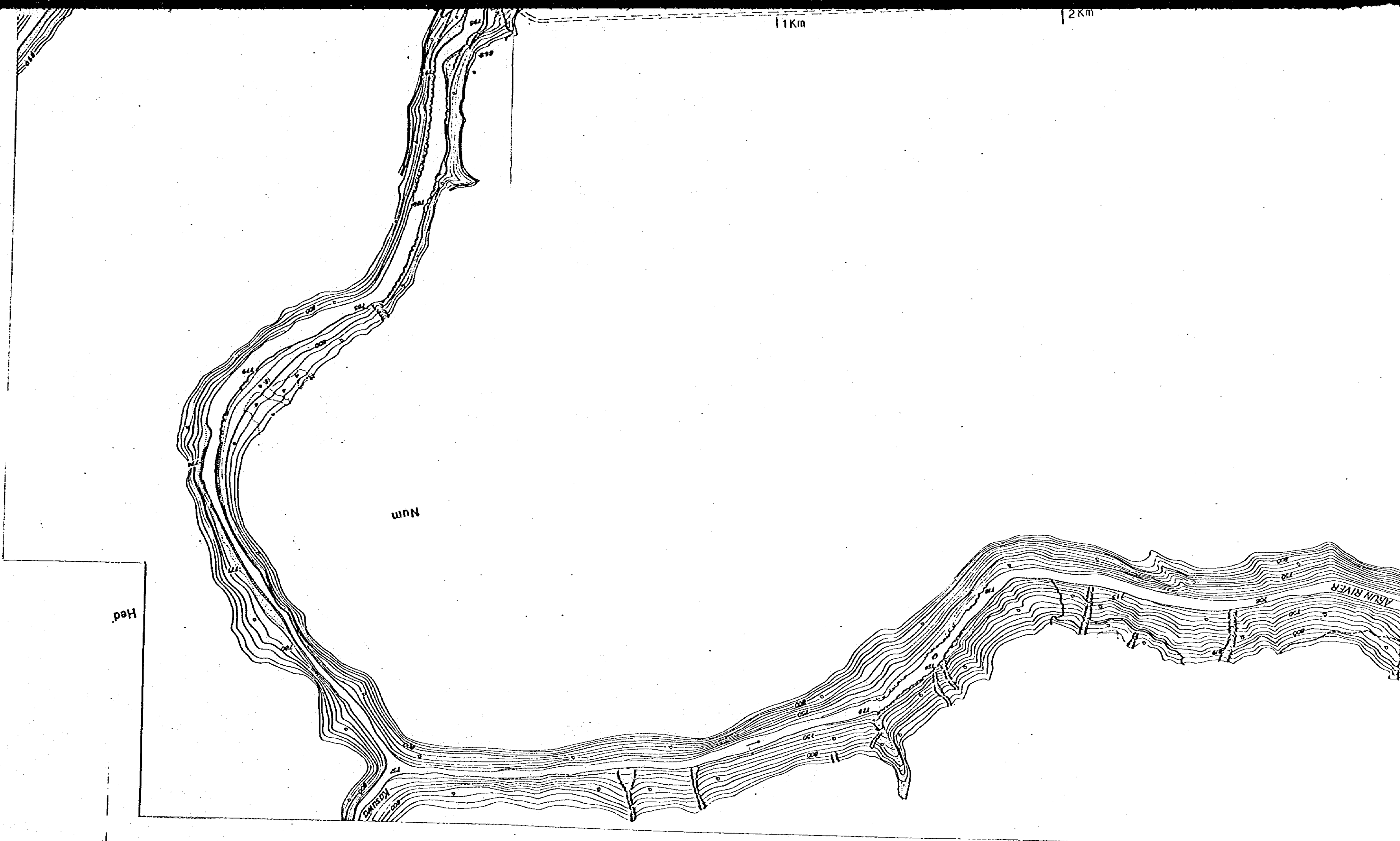
ARUN NO.3	
CA (km ²)	32,3
P (Mw)	2
Q (m ³ /s)	1
H (m)	19





ARUN NO.3	
CA (km ²)	32,332
P (MW)	240
Q (m ³ /s)	156
H (m)	194

His Majesty's Government of NEPAL Electricity Department	
KOSI RIVER WATER RESOURCES DEVELOPMENT	
ARUN NO.3	
MARCH 1985	
SCALE 1:10,000	

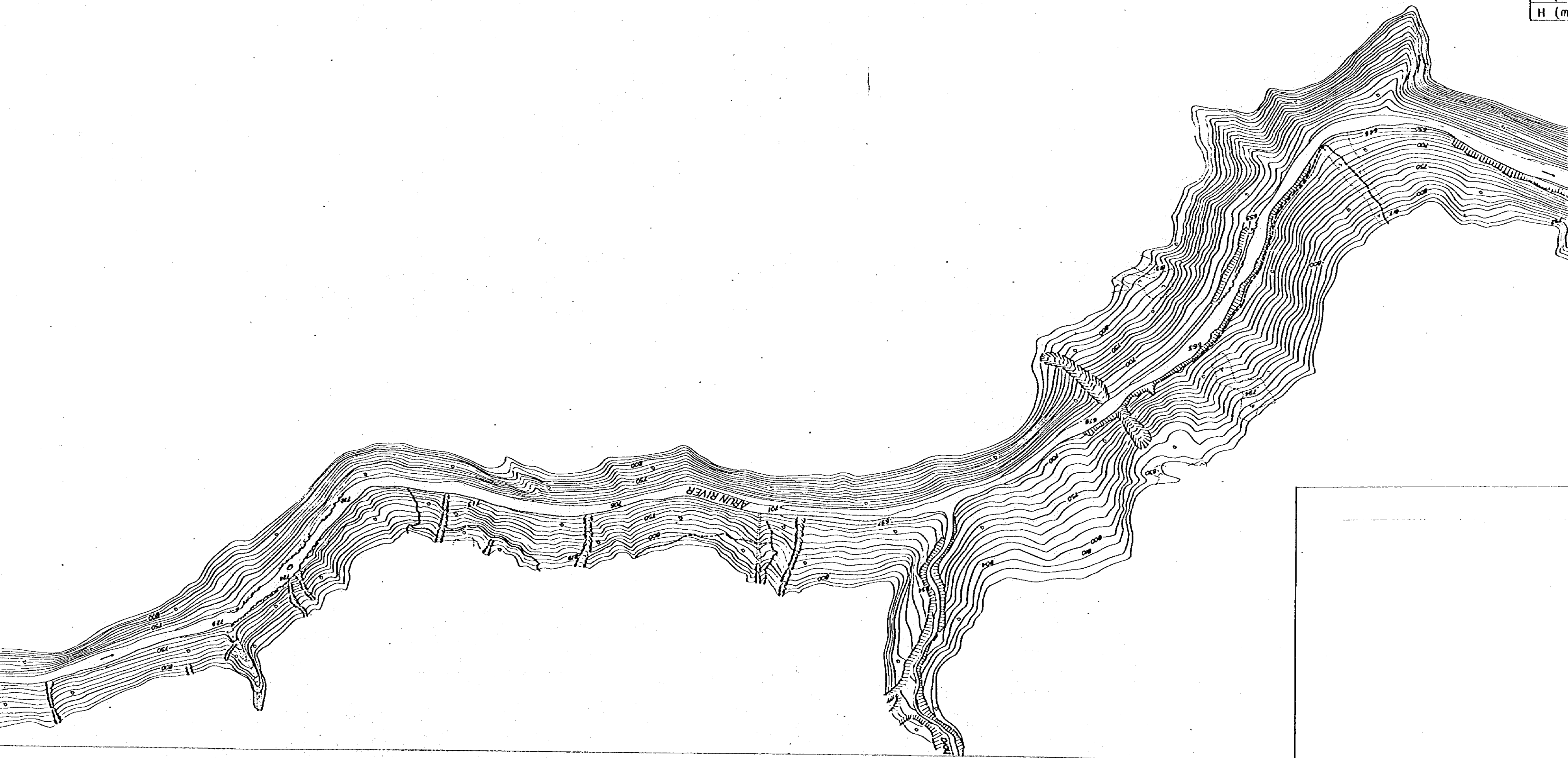


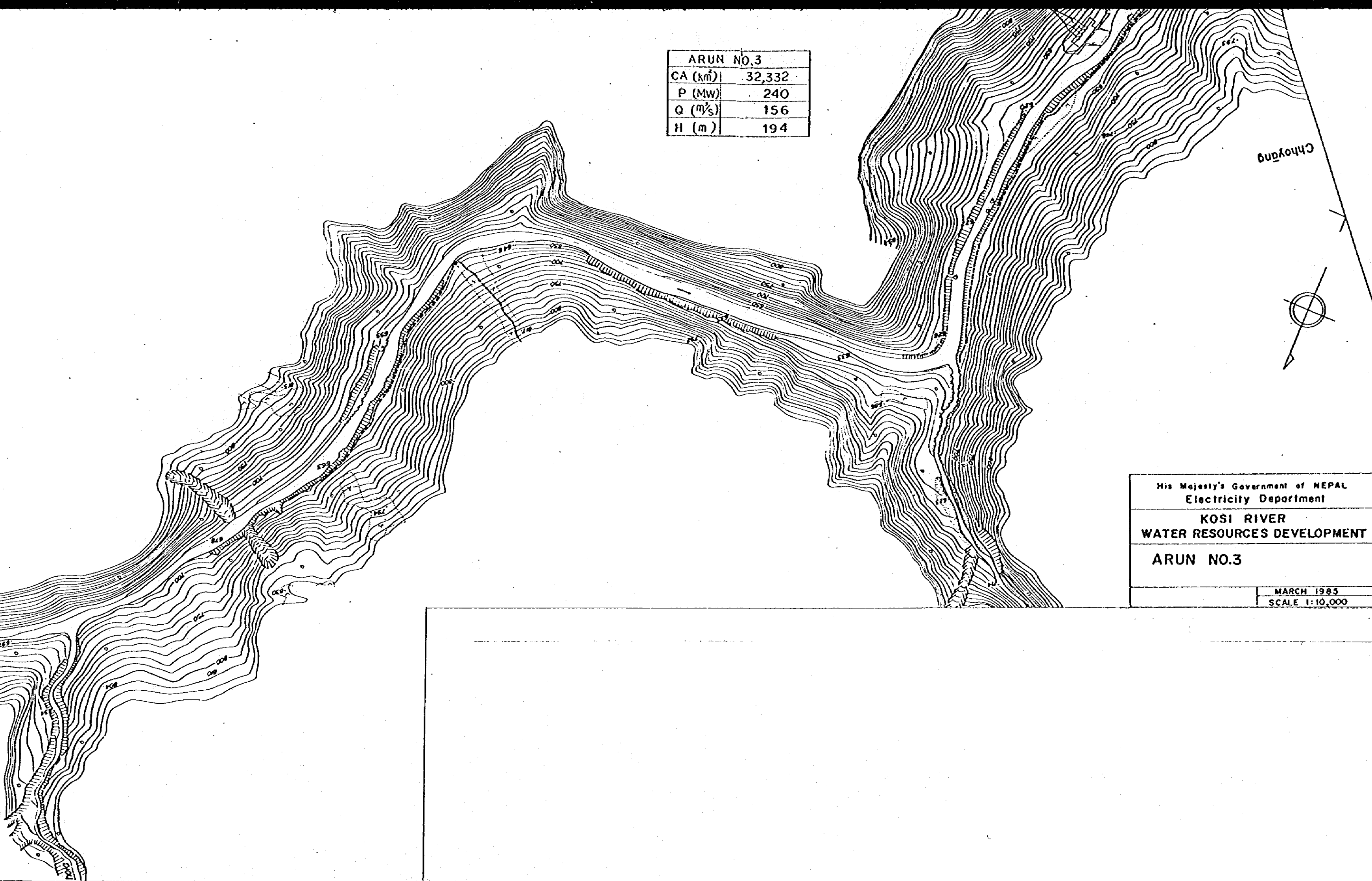
1 Km

2 Km

3 Km

AR
CA (m)
P (M)
Q (m)
H (m)





ARUN NO.3	
CA (km ²)	32,332
P (MW)	240
Q (m ³ /s)	156
H (m)	194

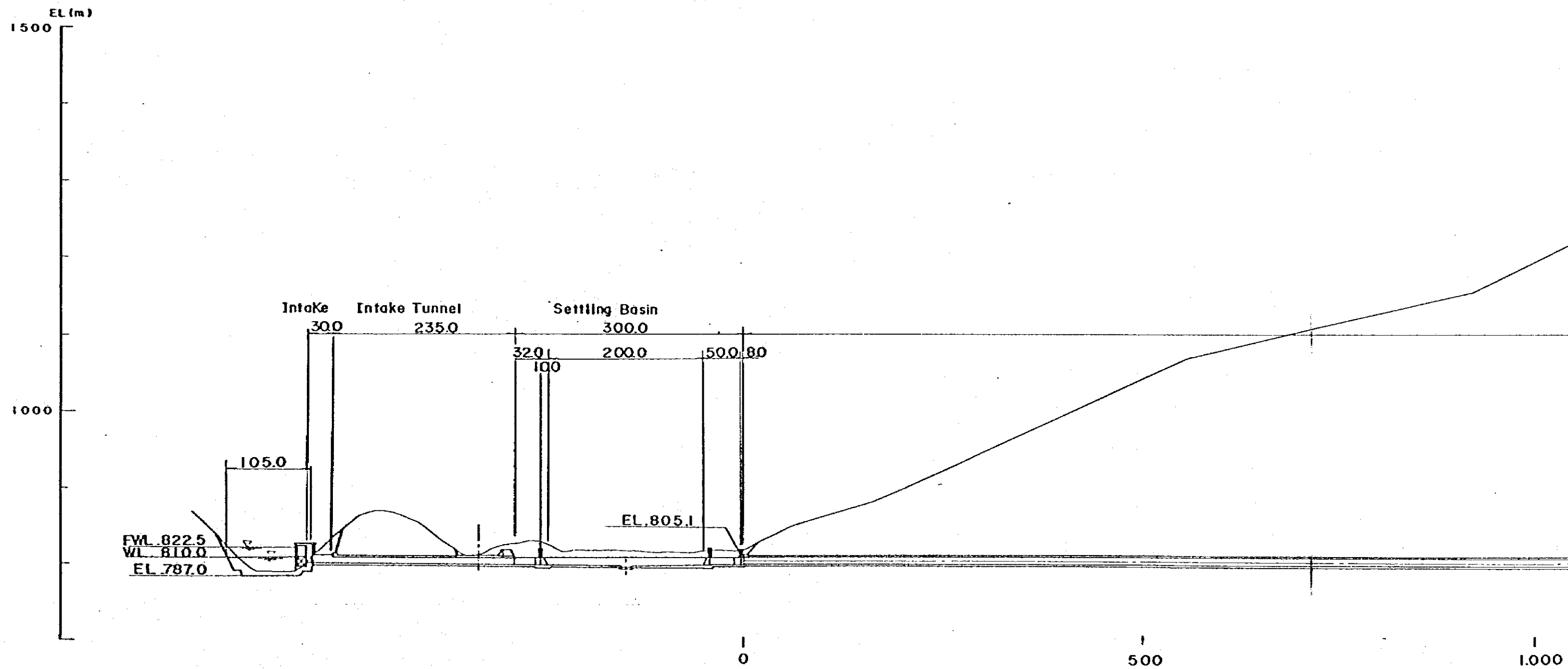
His Majesty's Government of NEPAL
Electricity Department

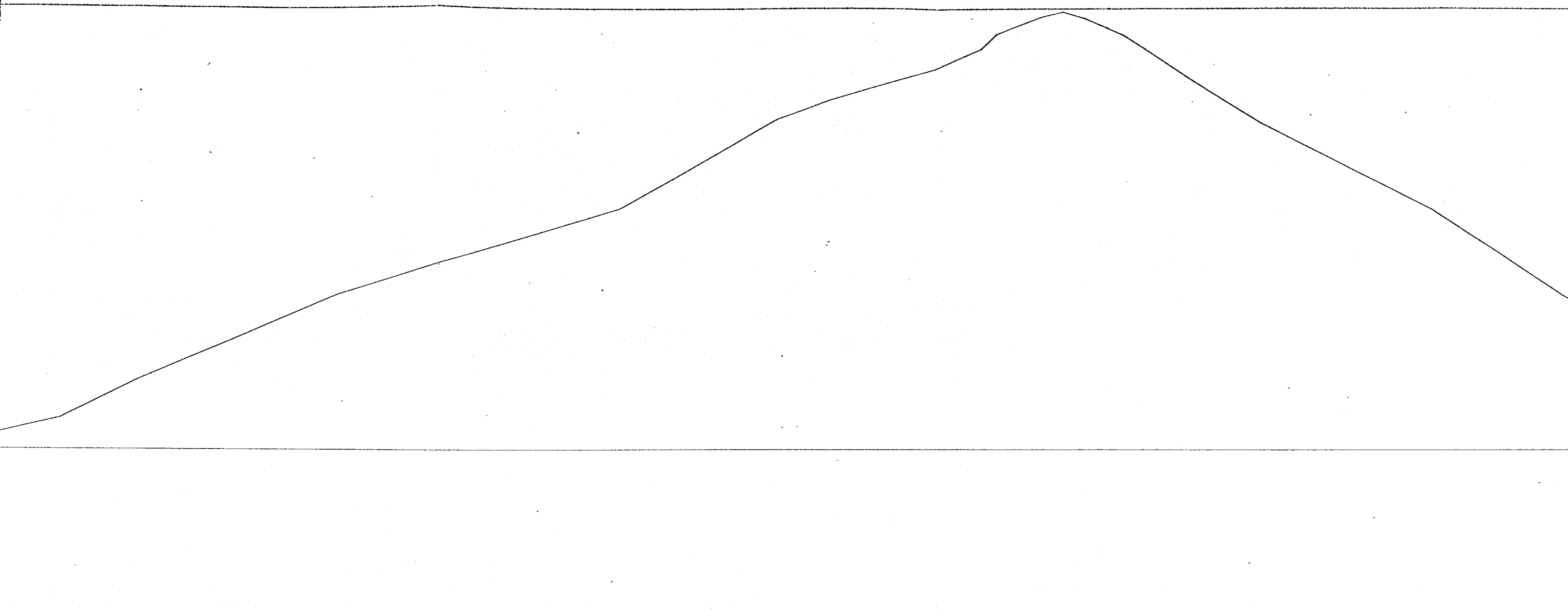
KOSI RIVER
WATER RESOURCES DEVELOPMENT

ARUN NO.3

MARCH 1985
SCALE 1:10,000

PROFILE OF WATERWAY
(S = 1/5,000)





1.000

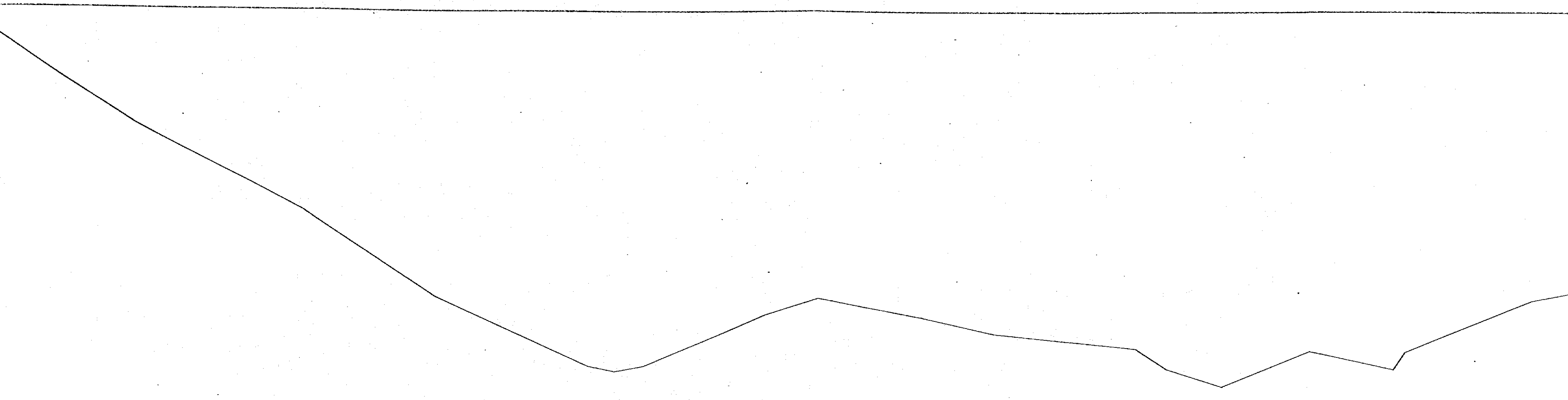
1.500

2.000

2.500

3.000

3.500



Headrace Tunnel 6.887.0 (1 = 1/1,400)

Access Tunnel

3.000

3.500

4.000

4.500

5.000

5.500

Tunnel

5.000

5.500

6.000

6.500

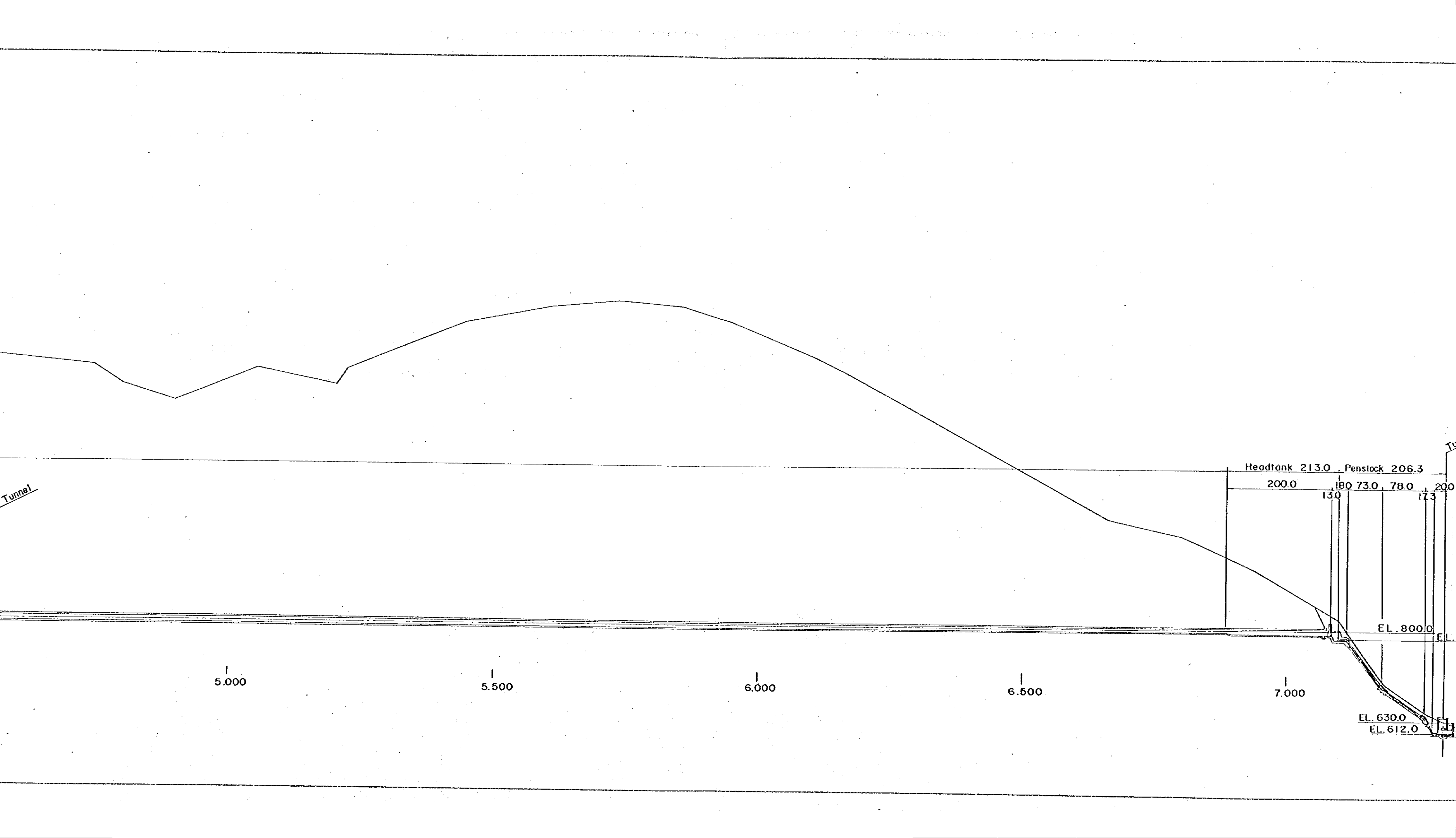
7.000

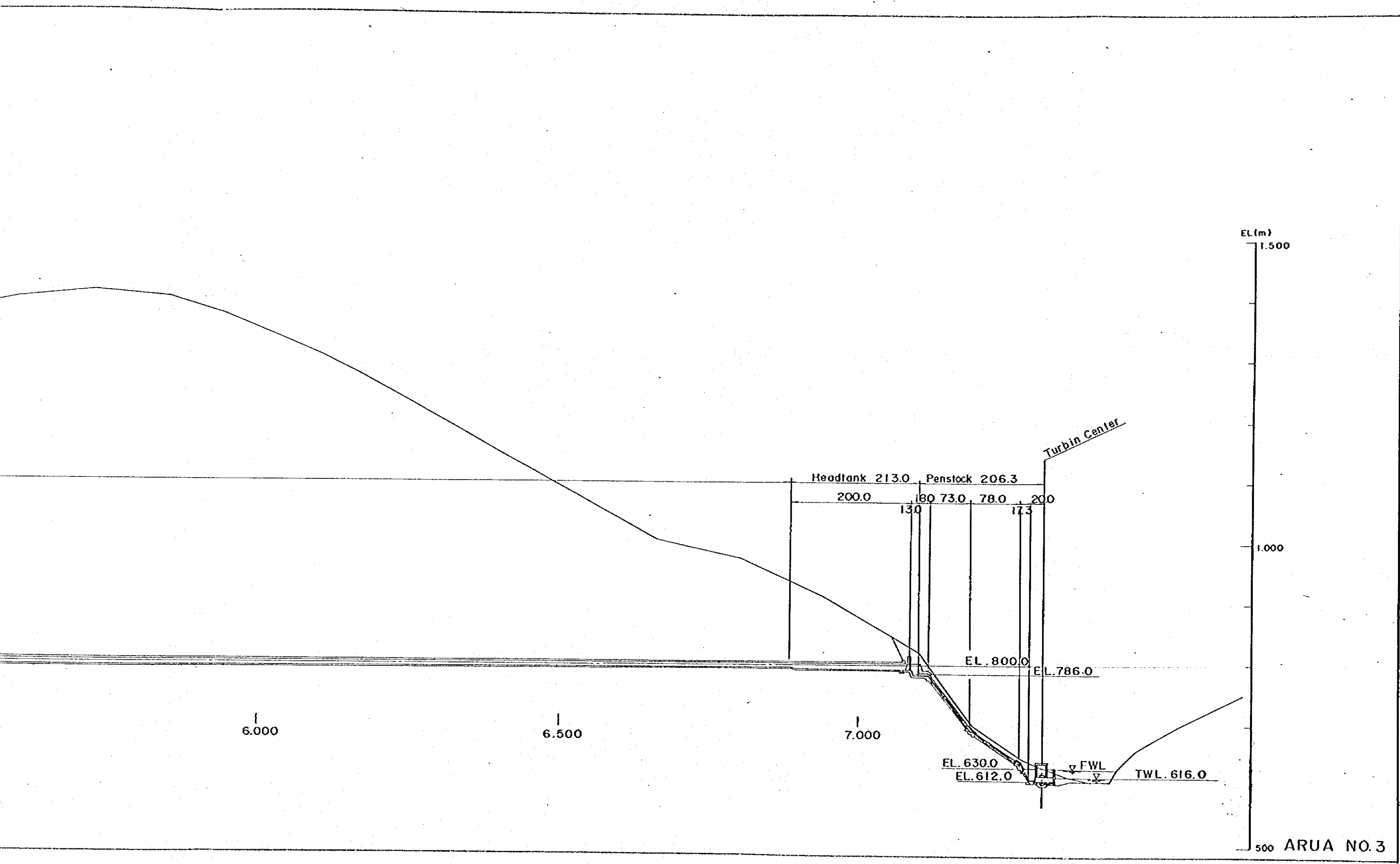
Headtank 213.0 Penstock 206.3

200.0 130 180 73.0 78.0 200

EL. 800.0

EL. 630.0
EL. 612.0





EL (m)

1.500

1.000

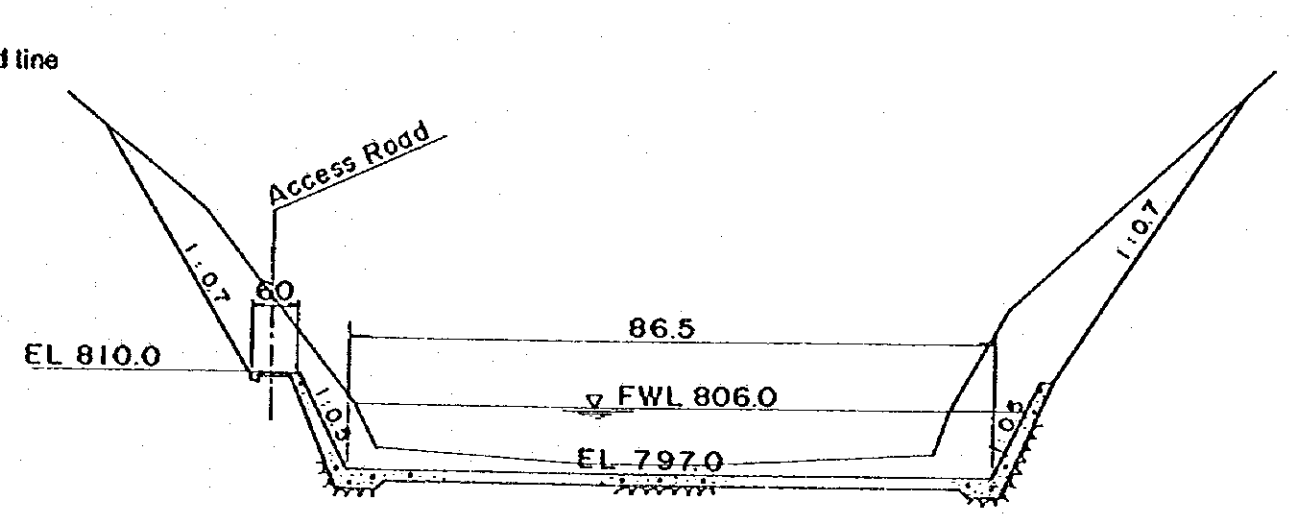
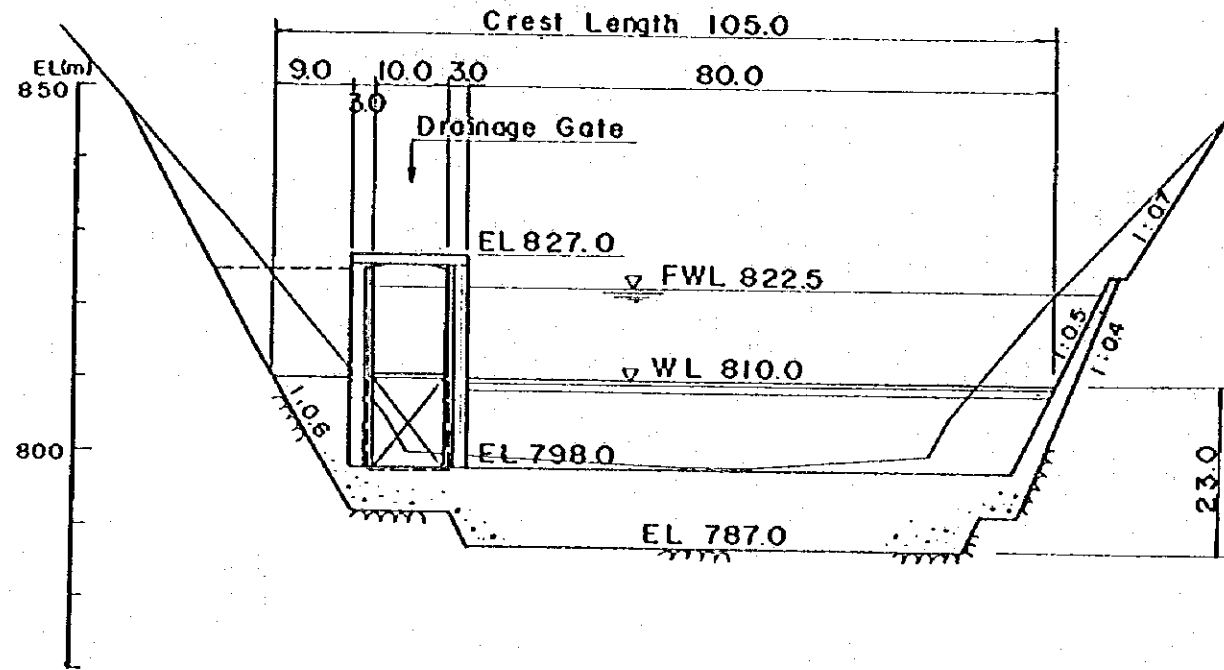
500 ARUA NO.3

INTAKE WEIR

(S = 1 / 1,000)

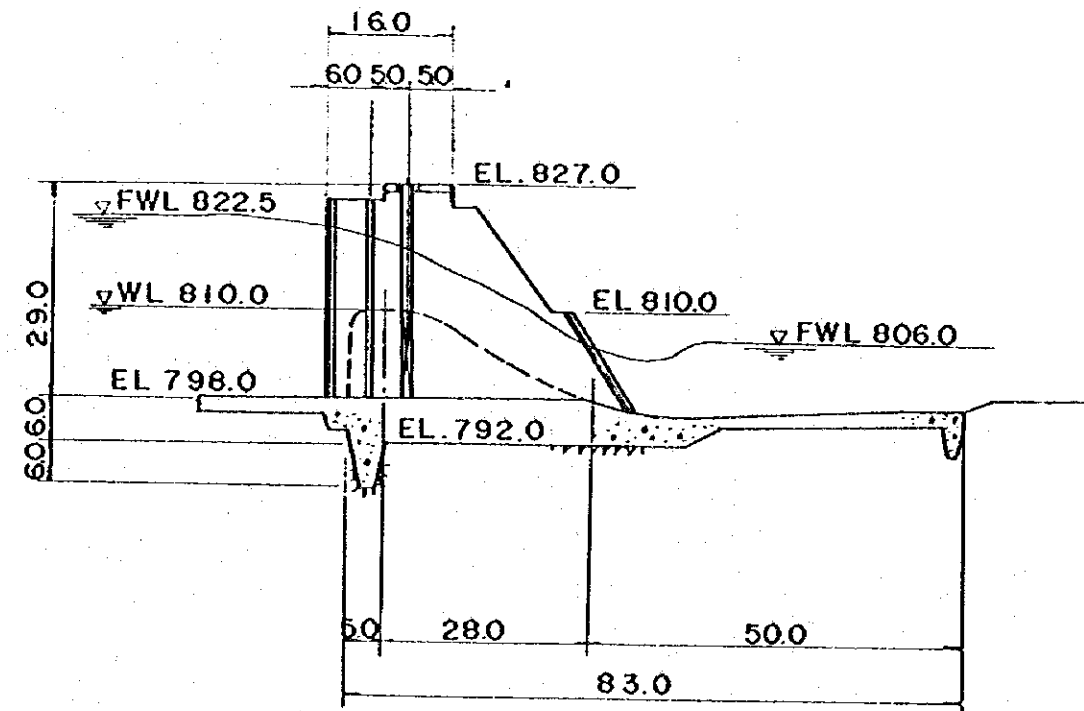
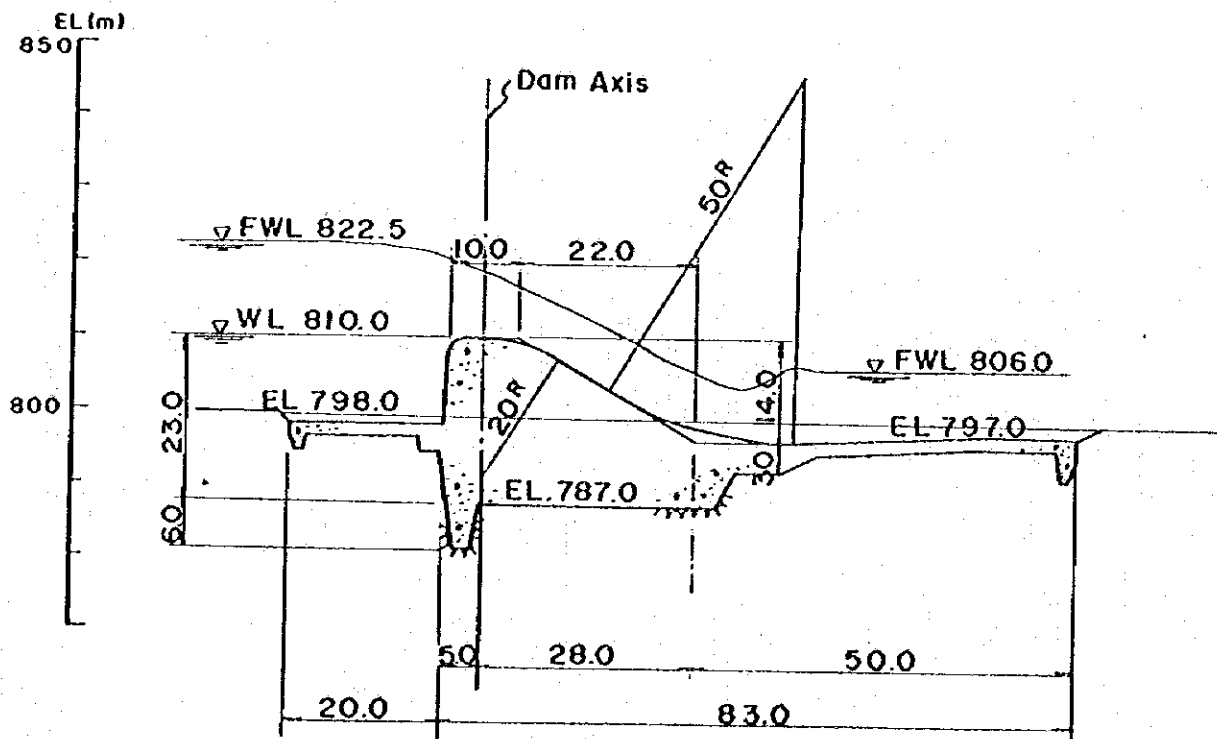
UPSTREAM ELEVATION OF WEIR
(S = 1 / 1,000)

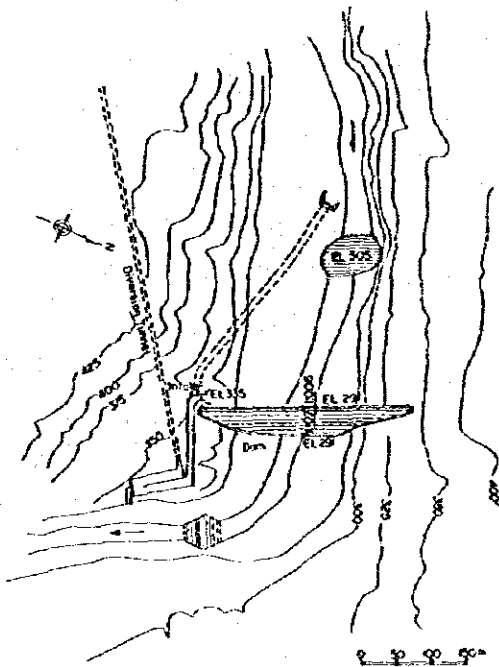
EPRON SECTION
(S = 1 / 1,000)



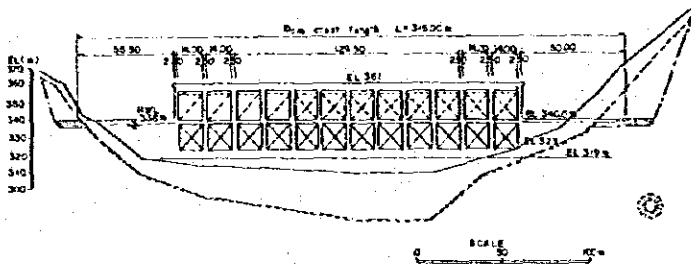
OVERFLOW SECTION
(S = 1 / 1,000)

DRAINAGE GATE SECTION
(S = 1 / 1,000)

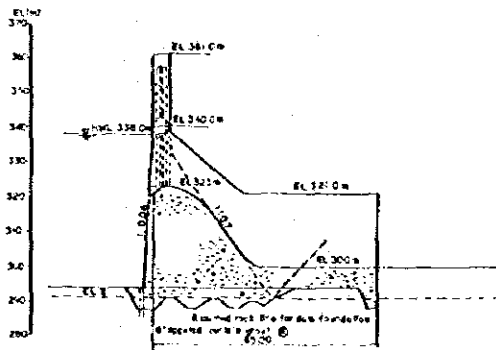




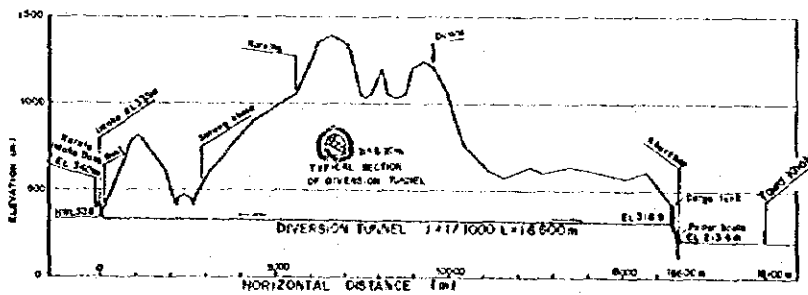
KURULE INTAKE DAM PLAN



UPSTREAM VIEW OF DAM

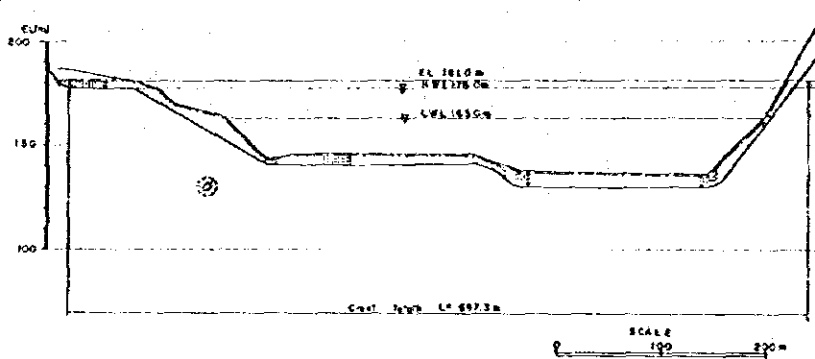
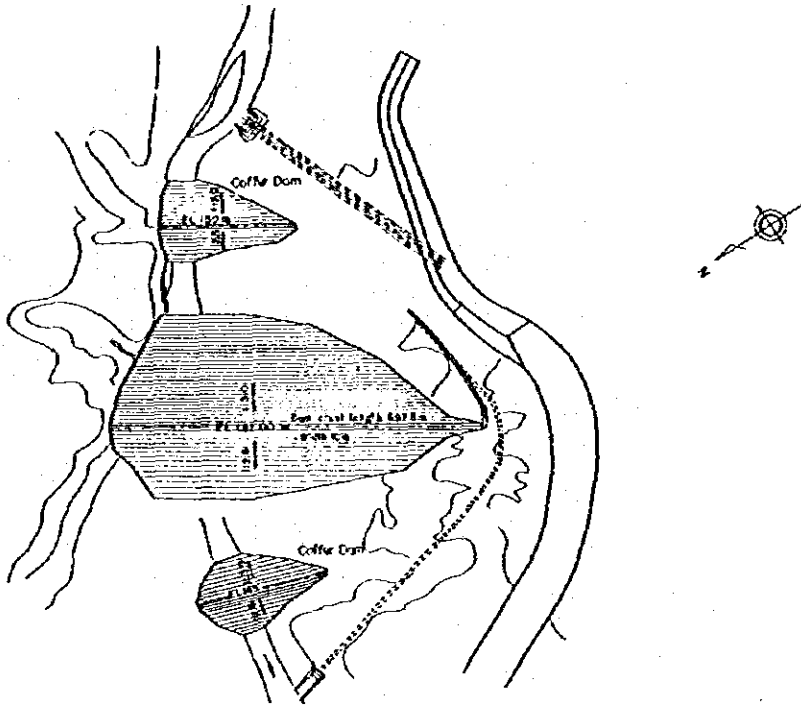


SECTION OF DAM

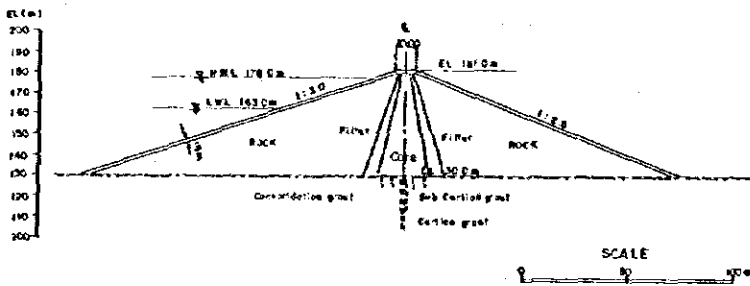


PROFILE OF DIVERSION TUNNEL

HIS MAJESTY'S GOVERNMENT OF NEPAL	
MINISTRY OF WATER RESOURCES	
KOSI RIVER WATER RESOURCES DEVELOPMENT	
MASTER PLAN STUDY	
SUN KOSI MULTIPURPOSE SCHEME	
KURULE INTAKE DAM	
JAPAN INTERNATIONAL COOPERATION AGENCY	
Date: March 1985	Sheet No.

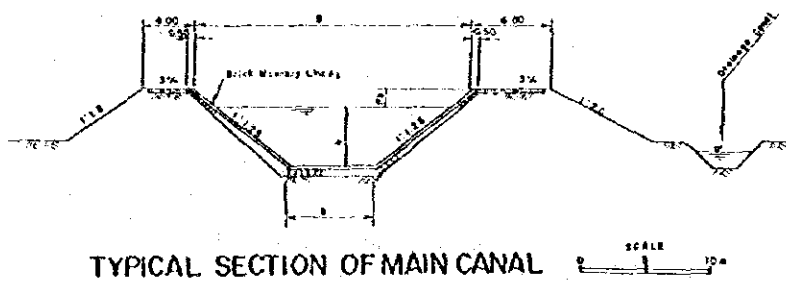
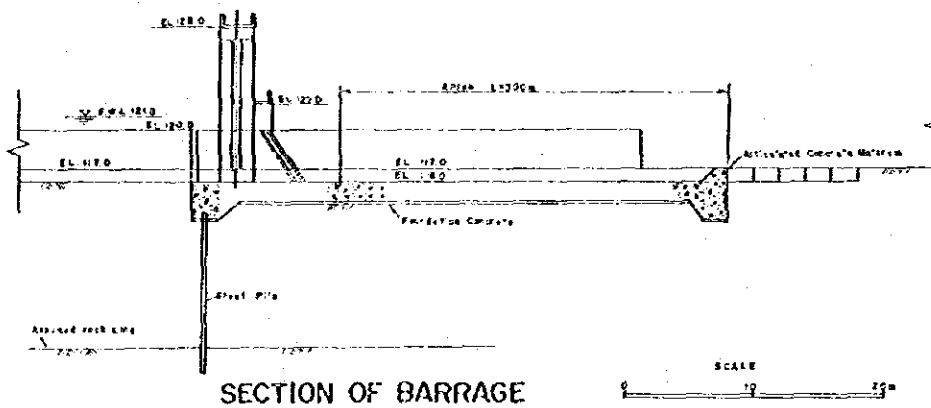
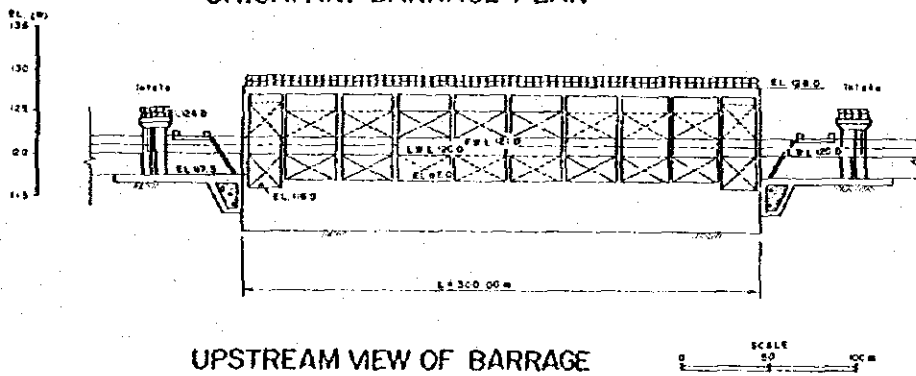
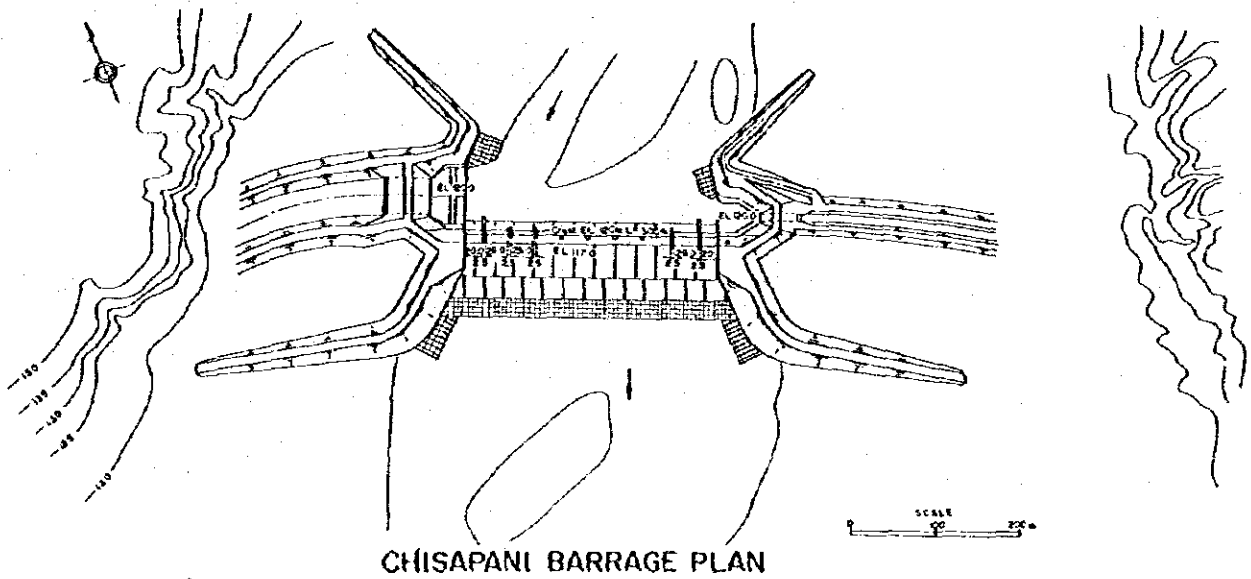


UPSTREAM VIEW OF DAM



TYPICAL SECTION OF DAM

HIS MAJESTY'S GOVERNMENT OF NEPAL MINISTRY OF WATER RESOURCES
KOSI RIVER WATER RESOURCES DEVELOPMENT MASTER PLAN STUDY
SUN KOSI MULTIPURPOSE SCHEME KAMLA DAM
JAPAN INTERNATIONAL COOPERATION AGENCY
Date: March 1985 Sheet No.



HIS MAJESTY'S GOVERNMENT OF NEPAL	
MINISTRY OF WATER RESOURCES	
KOSI RIVER WATER RESOURCES DEVELOPMENT	
MASTER PLAN STUDY	
SUN KOSI MULTIPURPOSE SCHEME	
CHISAPANI BARRAGE	
JAPAN INTERNATIONAL COOPERATION AGENCY	
Date: March 1985	Sheet No.

JICA