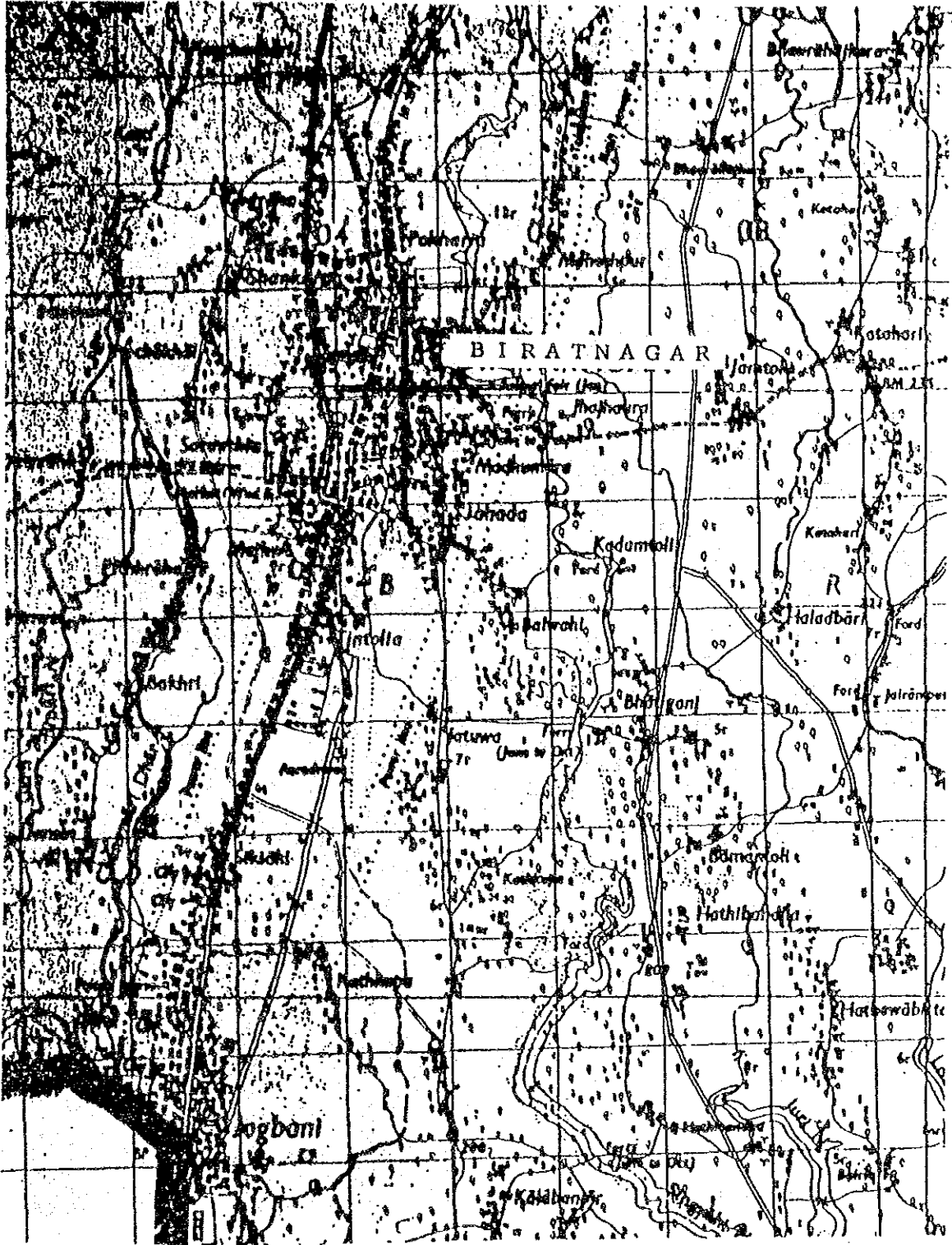
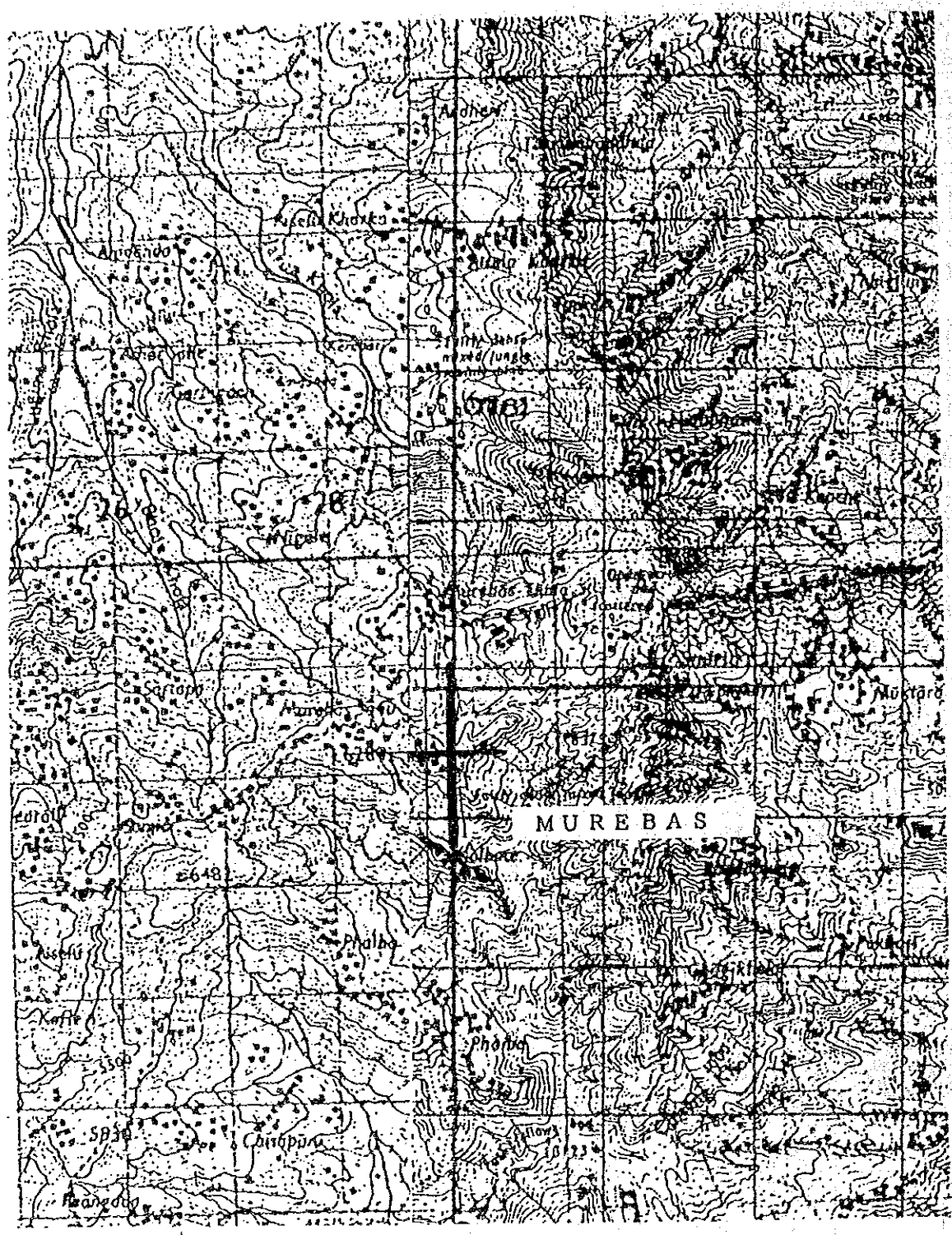


BASIC DESIGN - 5

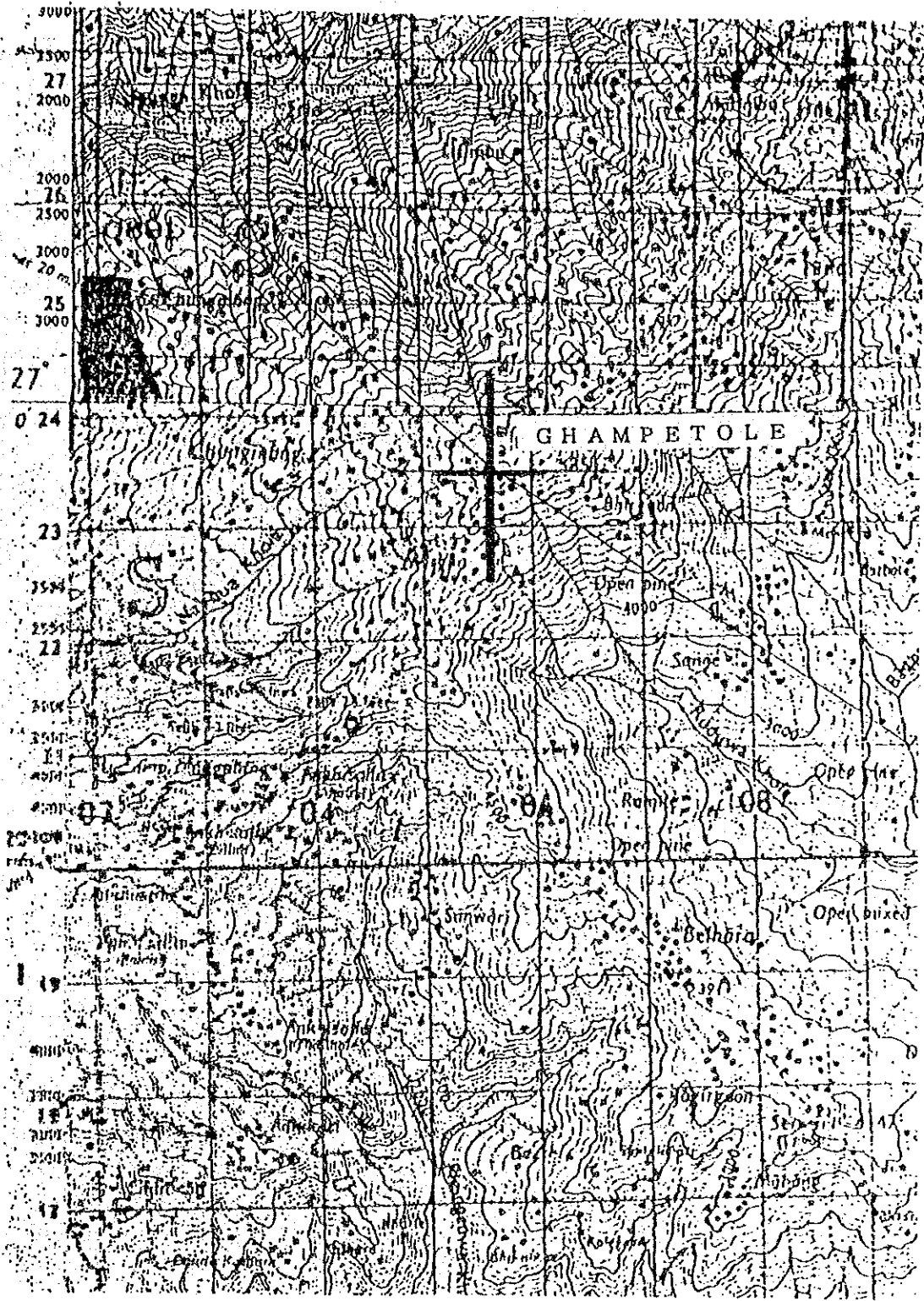
GUIDE MAP FOR PLANNED SITES



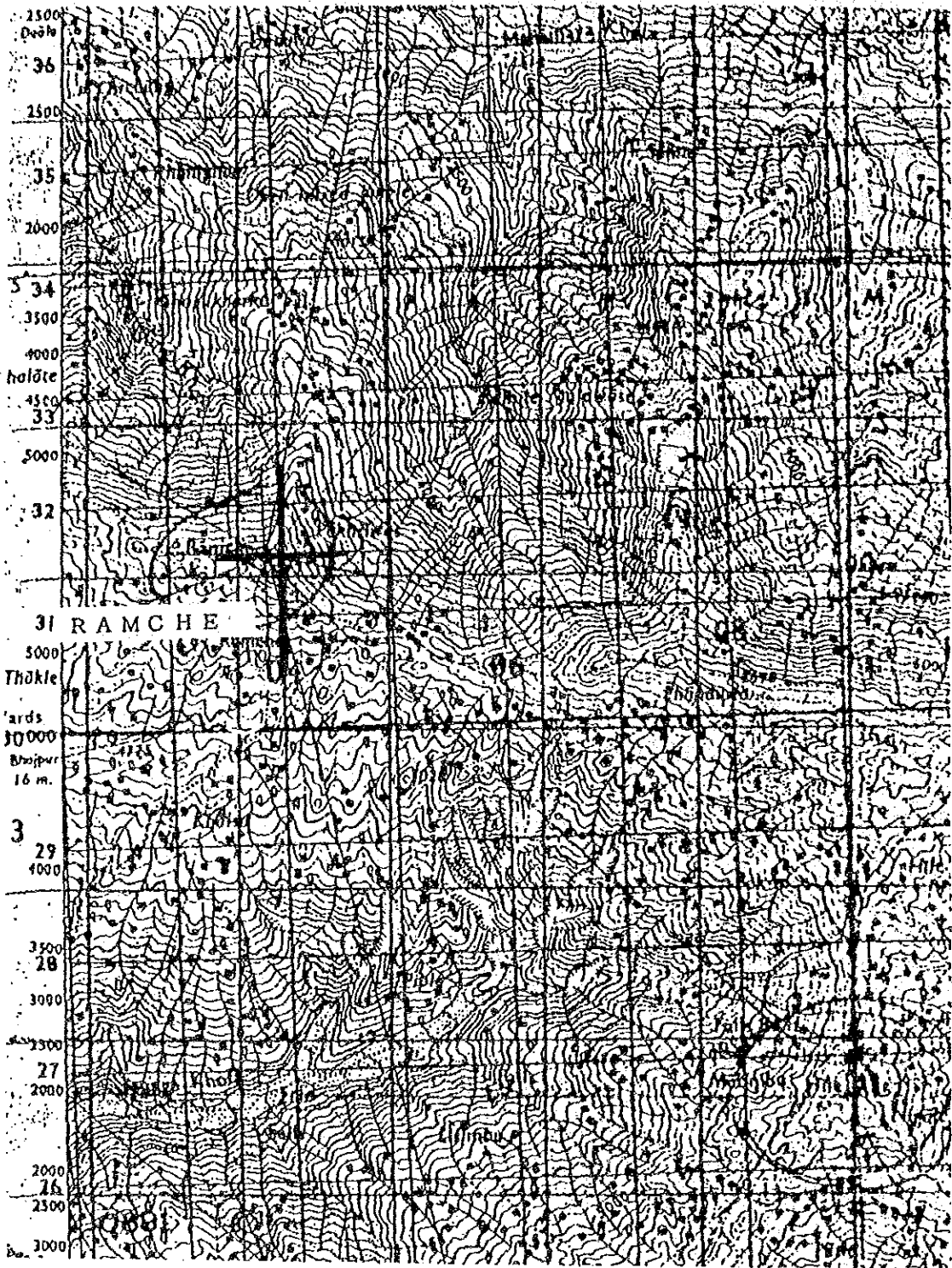
GUIDE MAP FOR PLANNED SITE	
SITE NAME	BIRATNAGAR
SCALE : 1/50,000	FIGURE-5-1 (1/23)
UNIT :	



GUIDE MAP FOR PLANNED SITE	
SITE NAME	MUREBAS
SCALE : 1/50,000	FIGURE-5-2 (2/23)
UNIT :	



GUIDE MAP FOR PLANNED SITE	
SITE NAME	GHAMPETOLE
SCALE : 1/50,000	FIGURE-5-3 (3/23)
UNIT :	



GUIDE MAP FOR PLANNED SITE

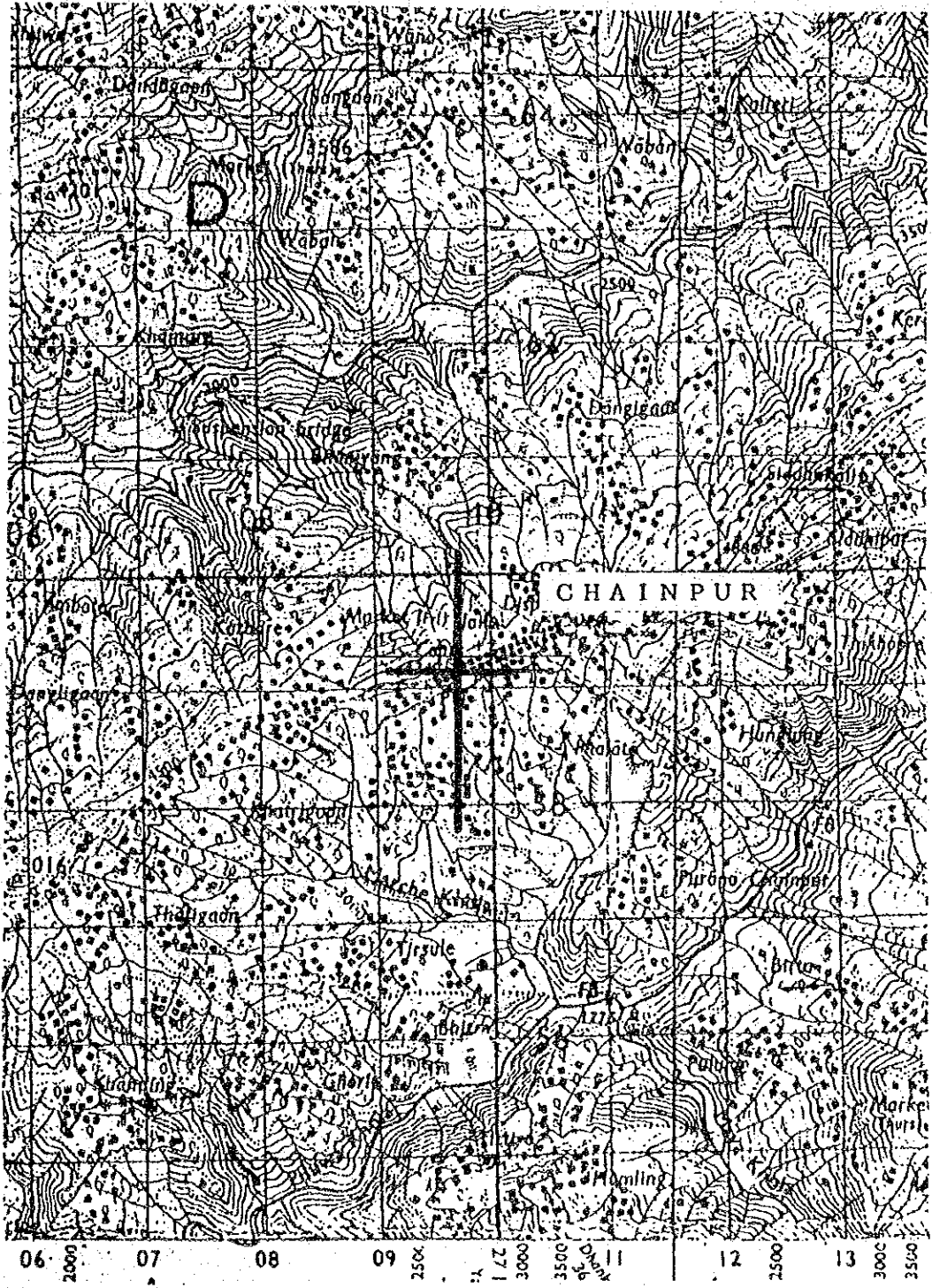
SITE NAME

RAMCHE

SCALE : 1/50,000

FIGURE-5-4 (4/23)

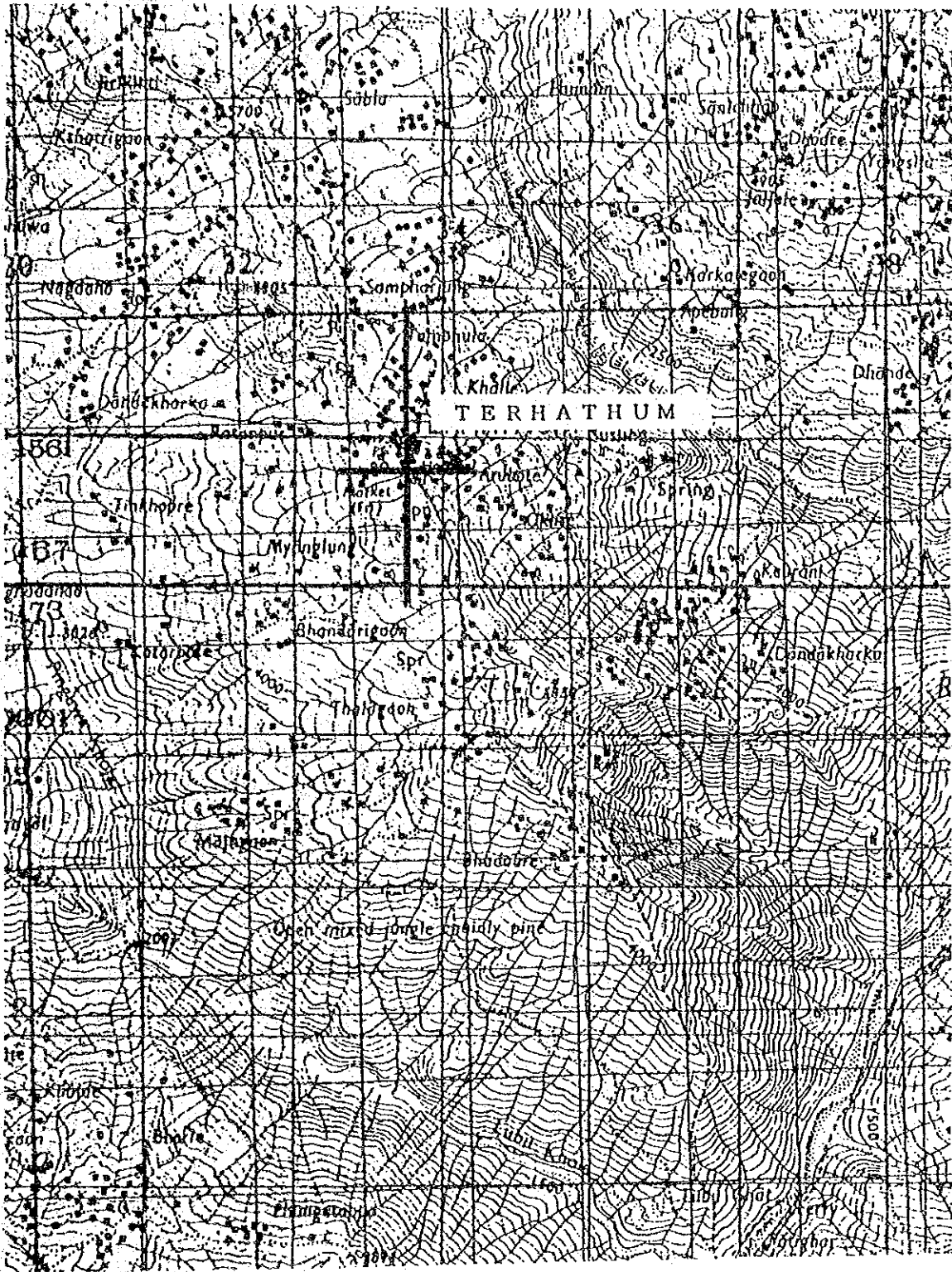
UNIT :



GUIDE MAP FOR PLANNED SITE	
SITE NAME	CHAINPUR
SCALE : 1/50,000	FIGURE-5-5 (5/23)
UNIT :	



GUIDE MAP FOR PLANNED SITE	
SITE NAME	KHANDBARI
SCALE : 1/50,000	FIGURE-5-6 (6/23)
UNIT :	



GUIDE MAP FOR PLANNED SITE

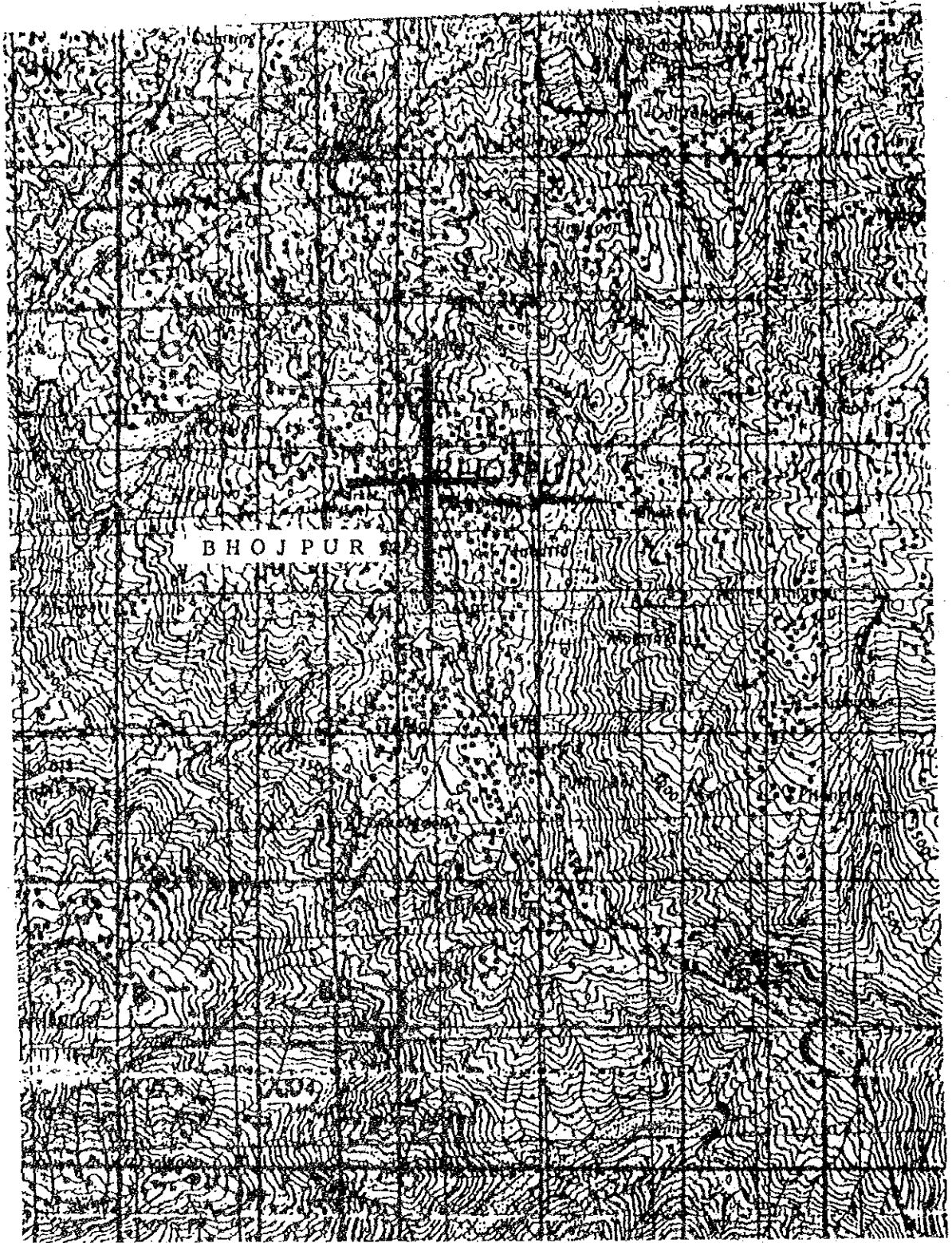
SITE NAME

TERHATHUM

SCALE : 1/50,000

FIGURE-5-7 (7/23)

UNIT :



GUIDE MAP FOR PLANNED SITE

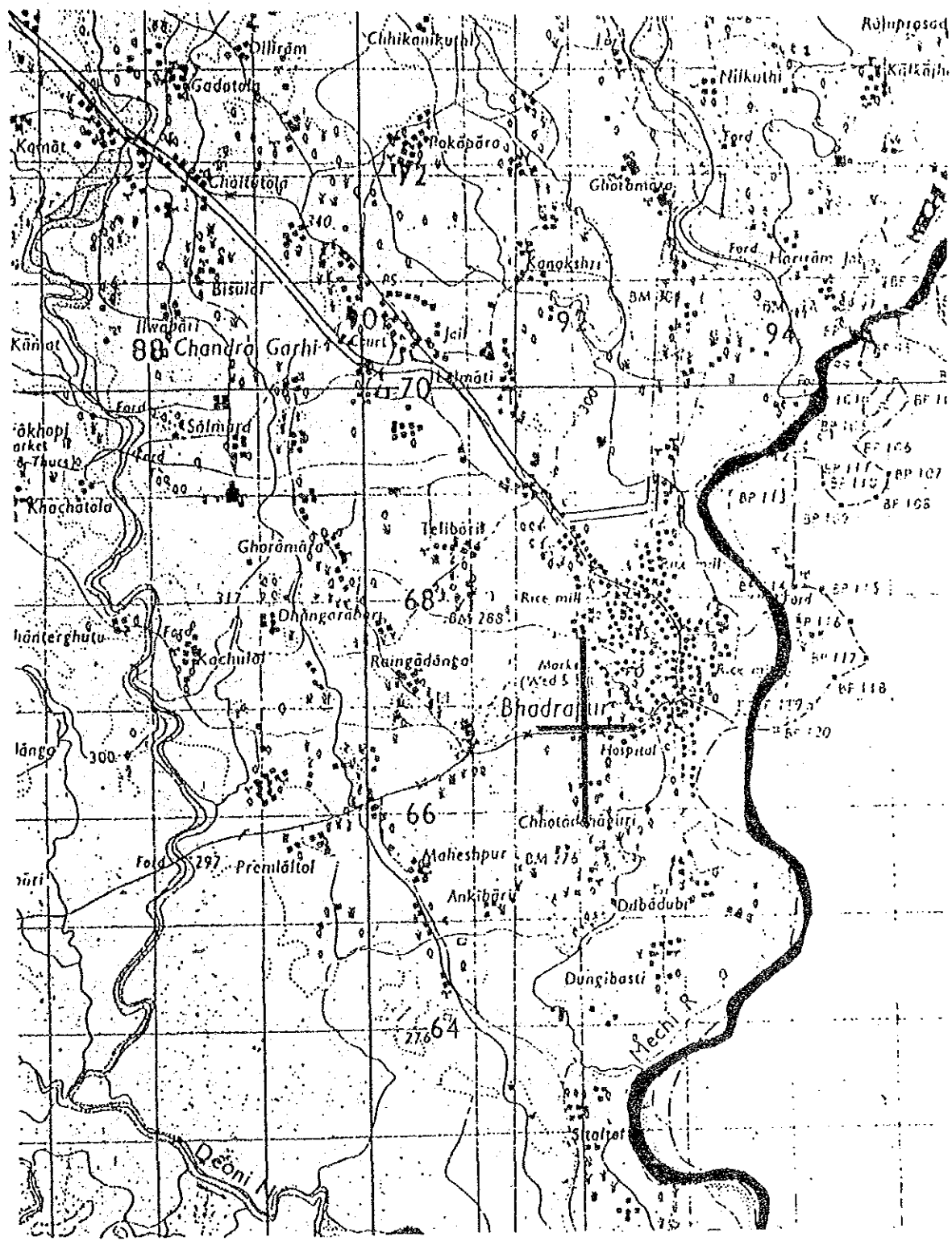
SITE NAME

BHOJUPUR

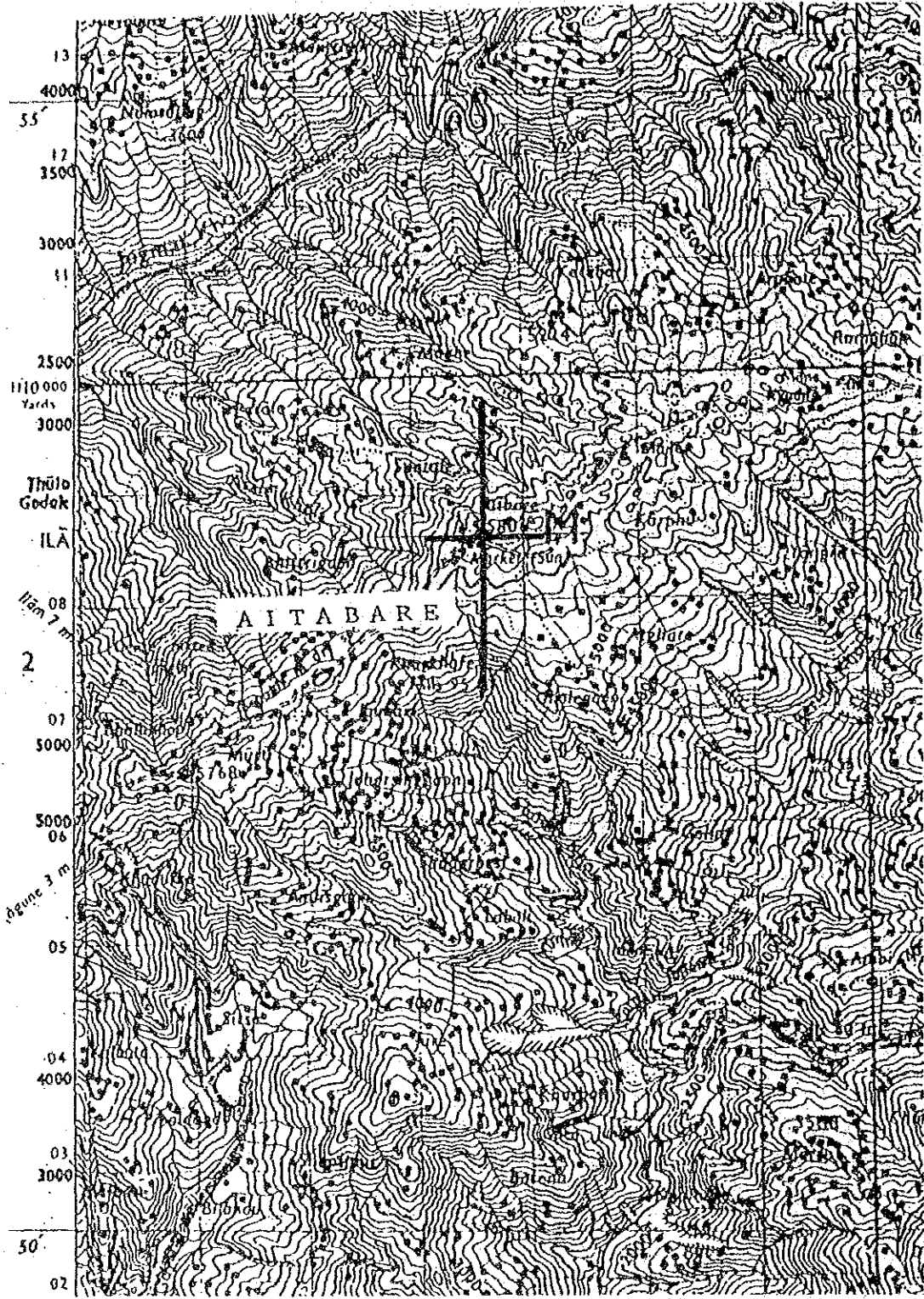
SCALE : 1/50,000

FIGURE-5-8 (8/29)

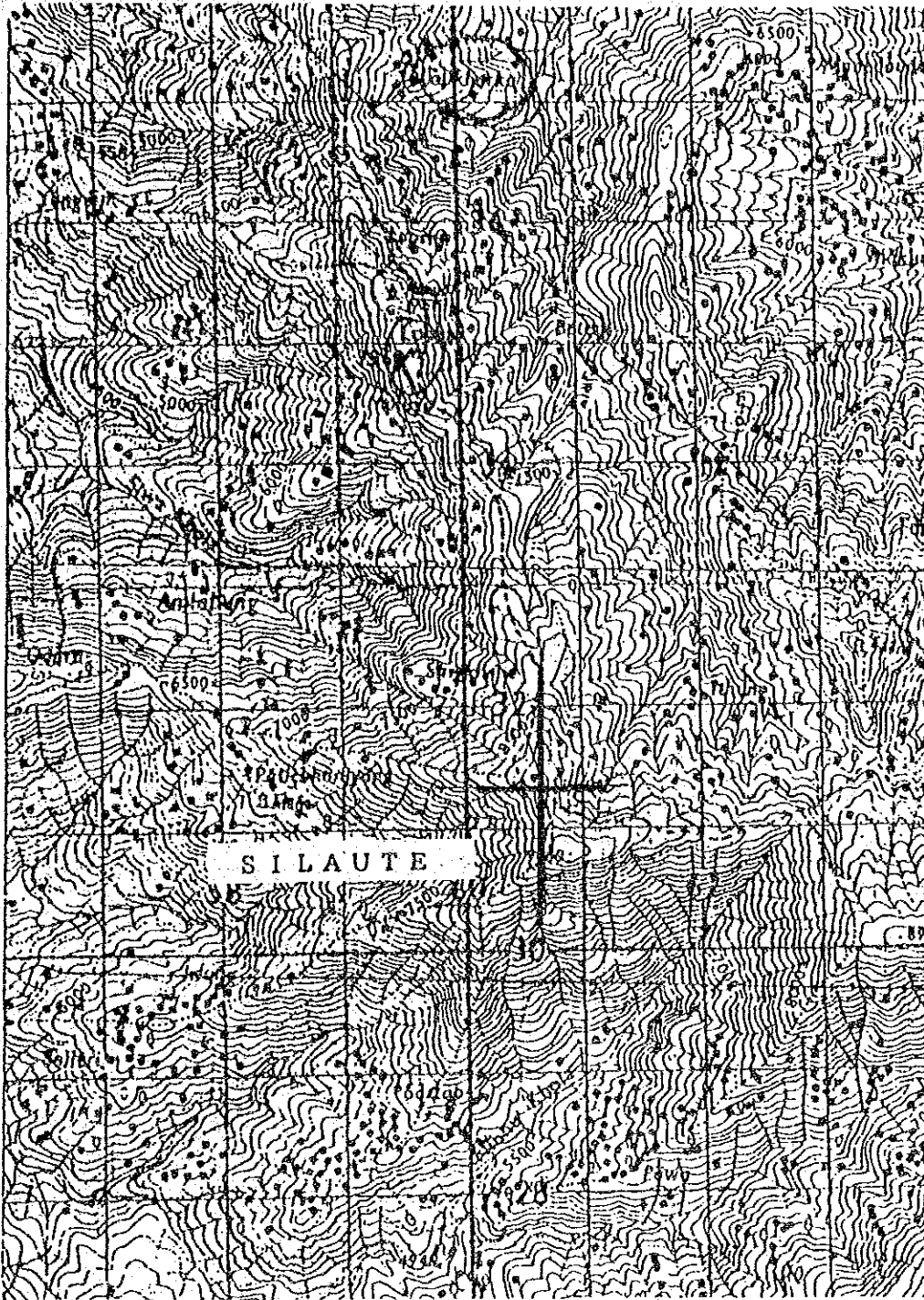
UNIT :



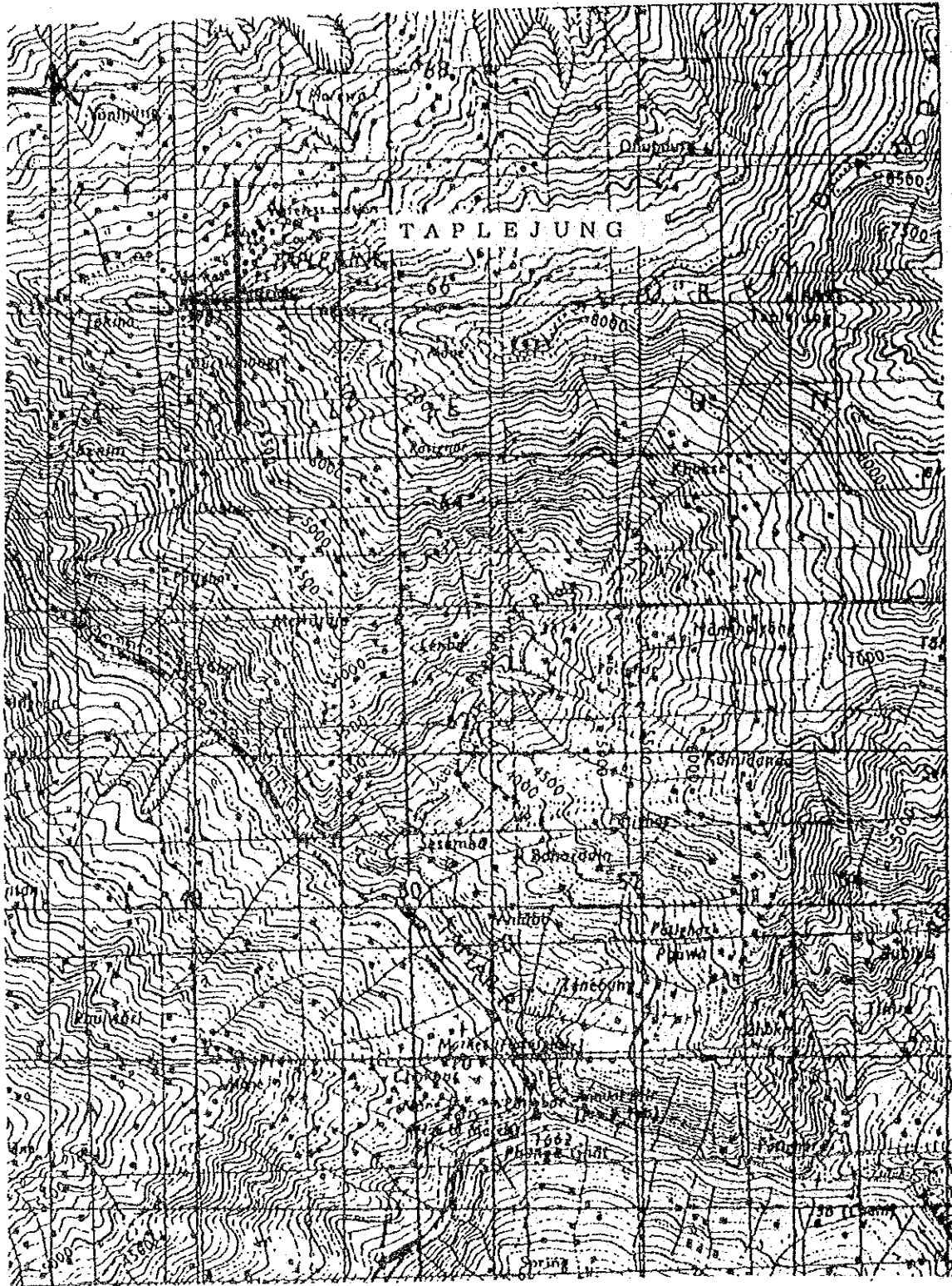
GUIDE MAP FOR PLANNED SITE	
SITE NAME	BHADRAPUR
SCALE : 1/50,000	FIGURE-5-9 (9/23)
UNIT :	



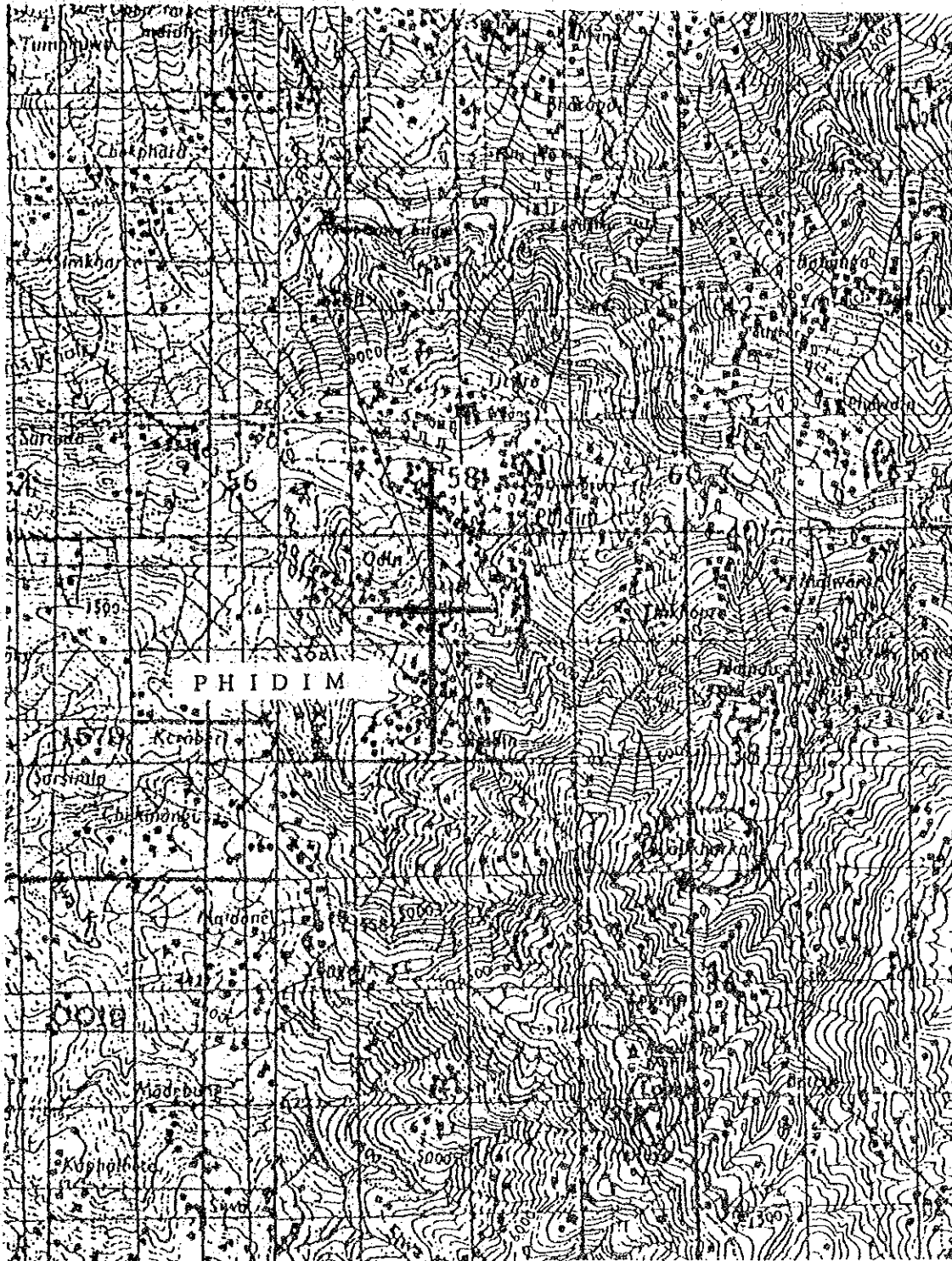
GUIDE MAP FOR PLANNED SITE	
SITE NAME	AITABARE
SCALE : 1/50,000	FIGURE-5-10 (10/23)
UNIT :	



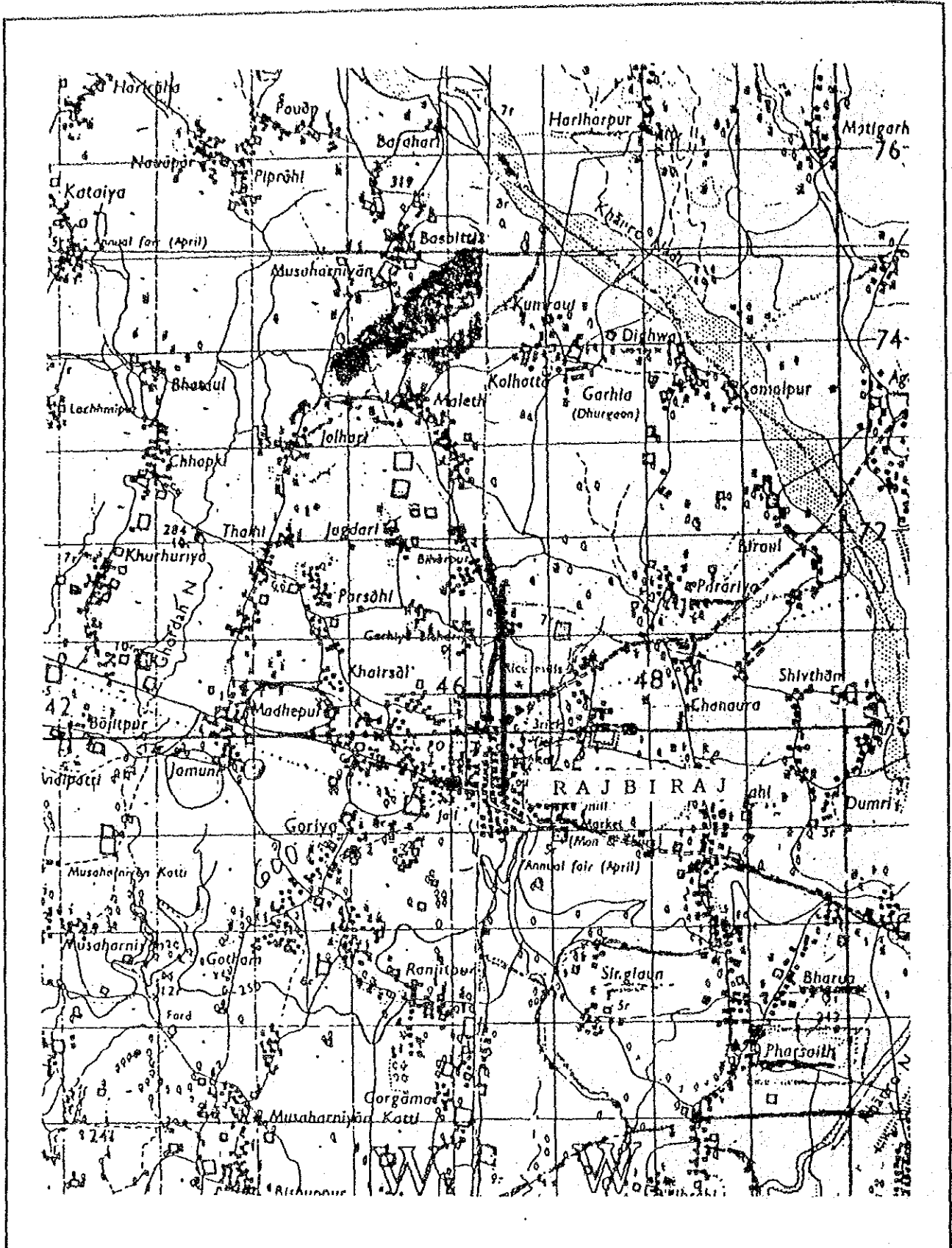
GUIDE MAP FOR PLANNED SITE	
SITE NAME	SILAUTE
SCALE : 1/50,000	FIGURE-5-11 (11/23)
UNIT :	



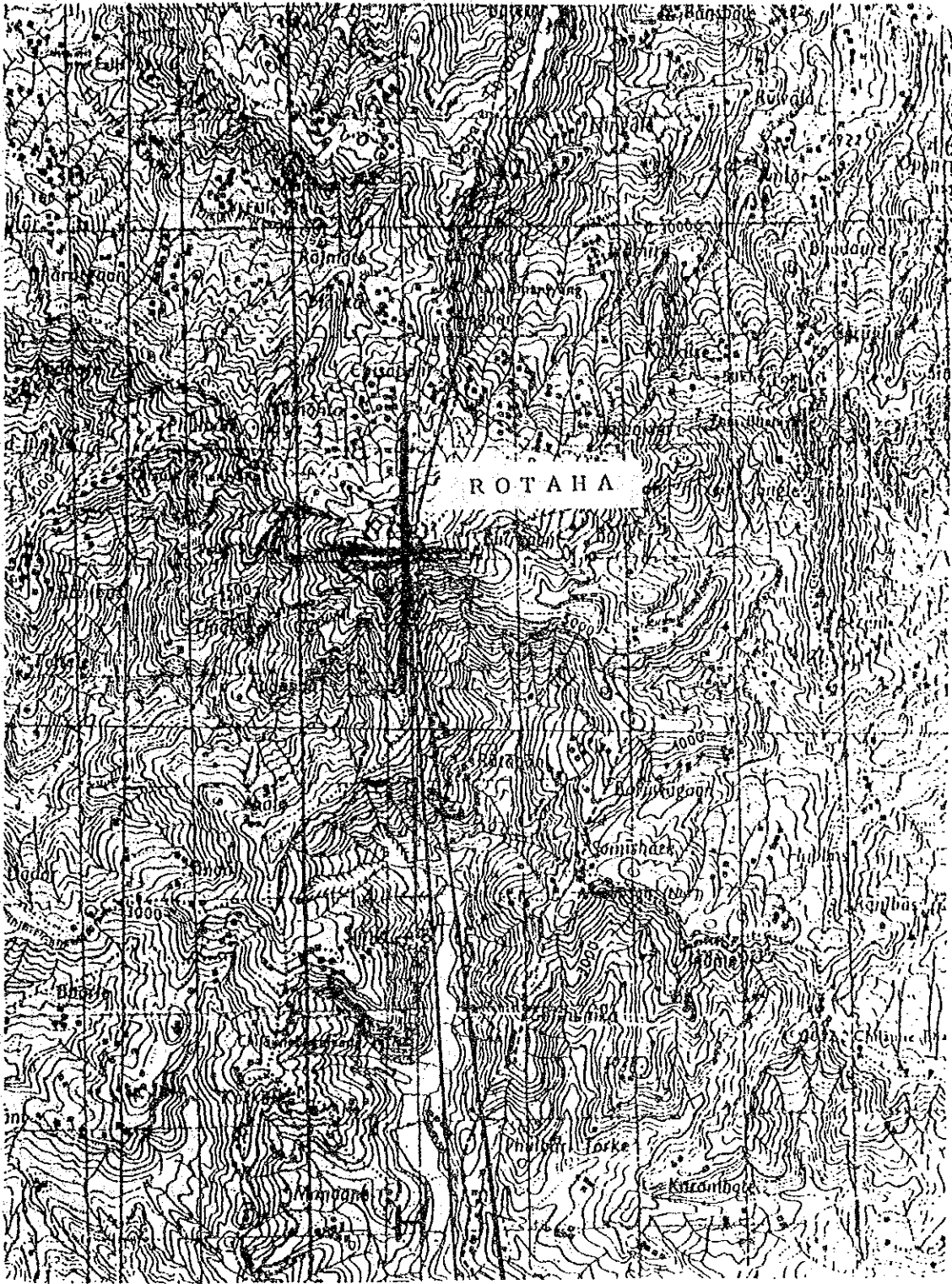
GUIDE MAP FOR PLANNED SITE	
SITE NAME	TAPLEJUNG
SCALE : 1/50,000	FIGURE-5-12 (12/23)
UNIT :	



GUIDE MAP FOR PLANNED SITE	
SITE NAME	PHIDIM
SCALE : 1/50,000	FIGURE-5-13 (13/23)
UNIT :	

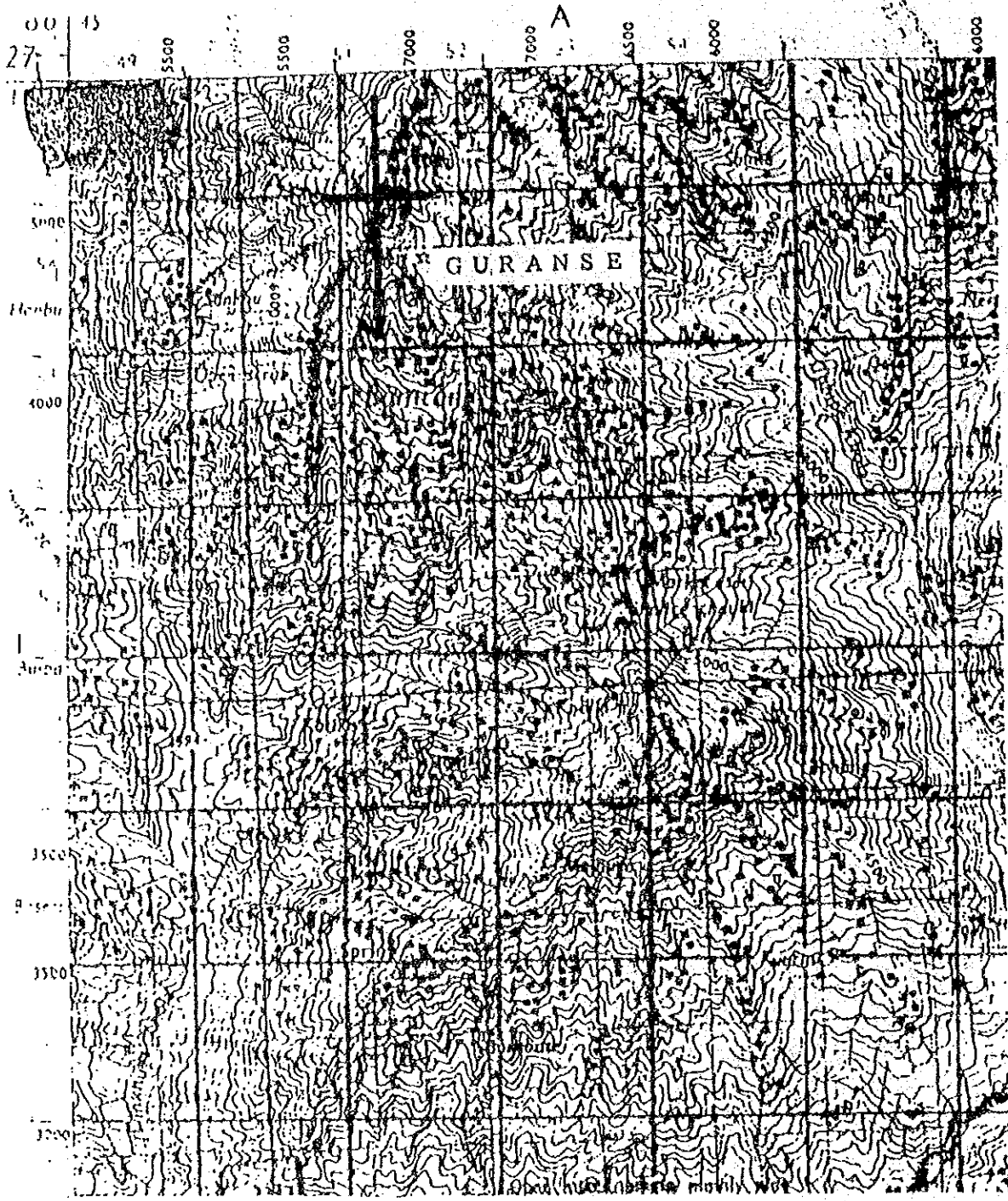


GUIDE MAP FOR PLANNED SITE	
SITE NAME	RAJBIRAJ
SCALE : 1/50,000	FIGURE-5-14 (14/23)
UNIT :	

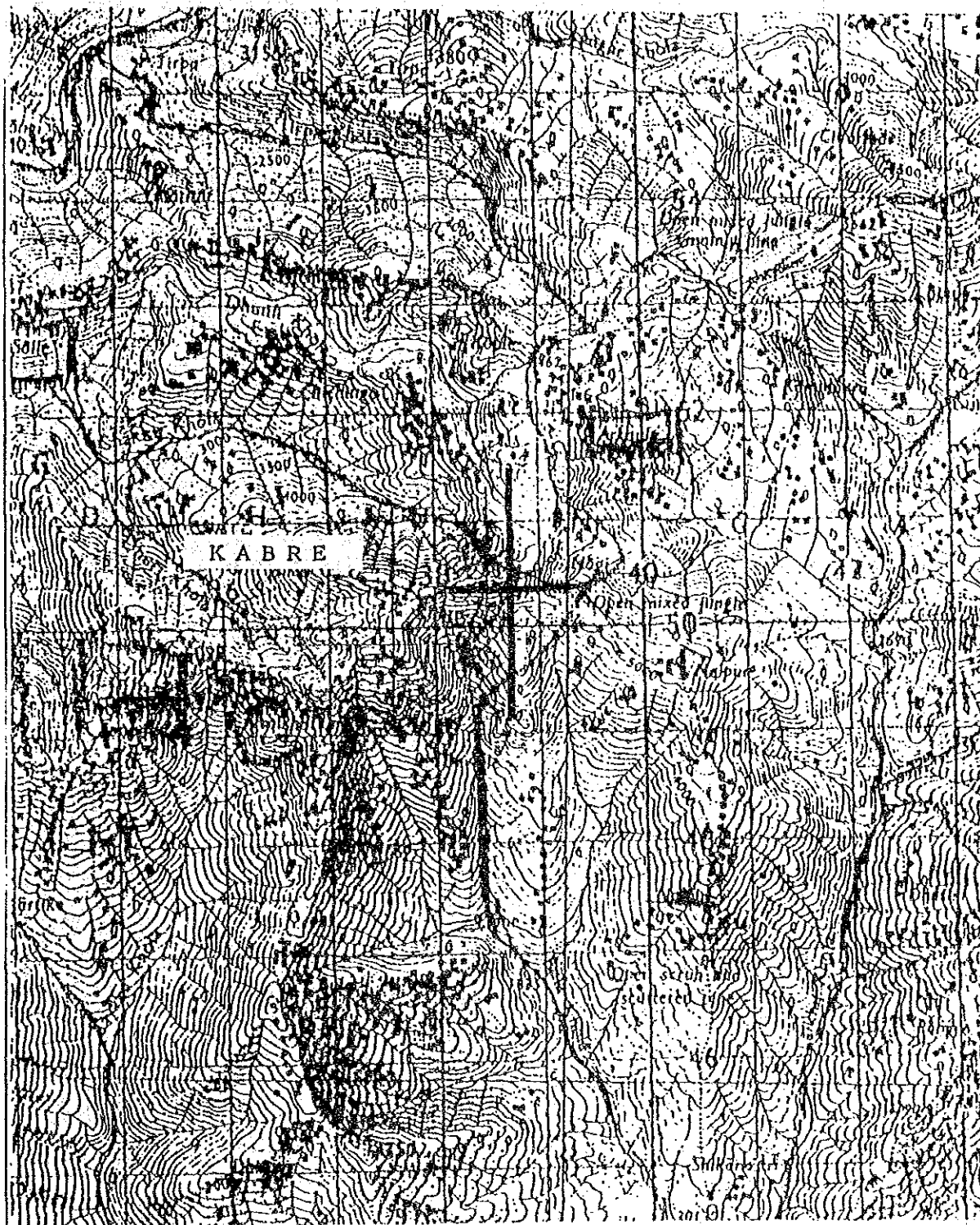


GUIDE MAP FOR PLANNED SITE

SITE NAME	ROTAHA
SCALE : 1/50,000	FIGURE-5-15 (15/23)
UNIT :	

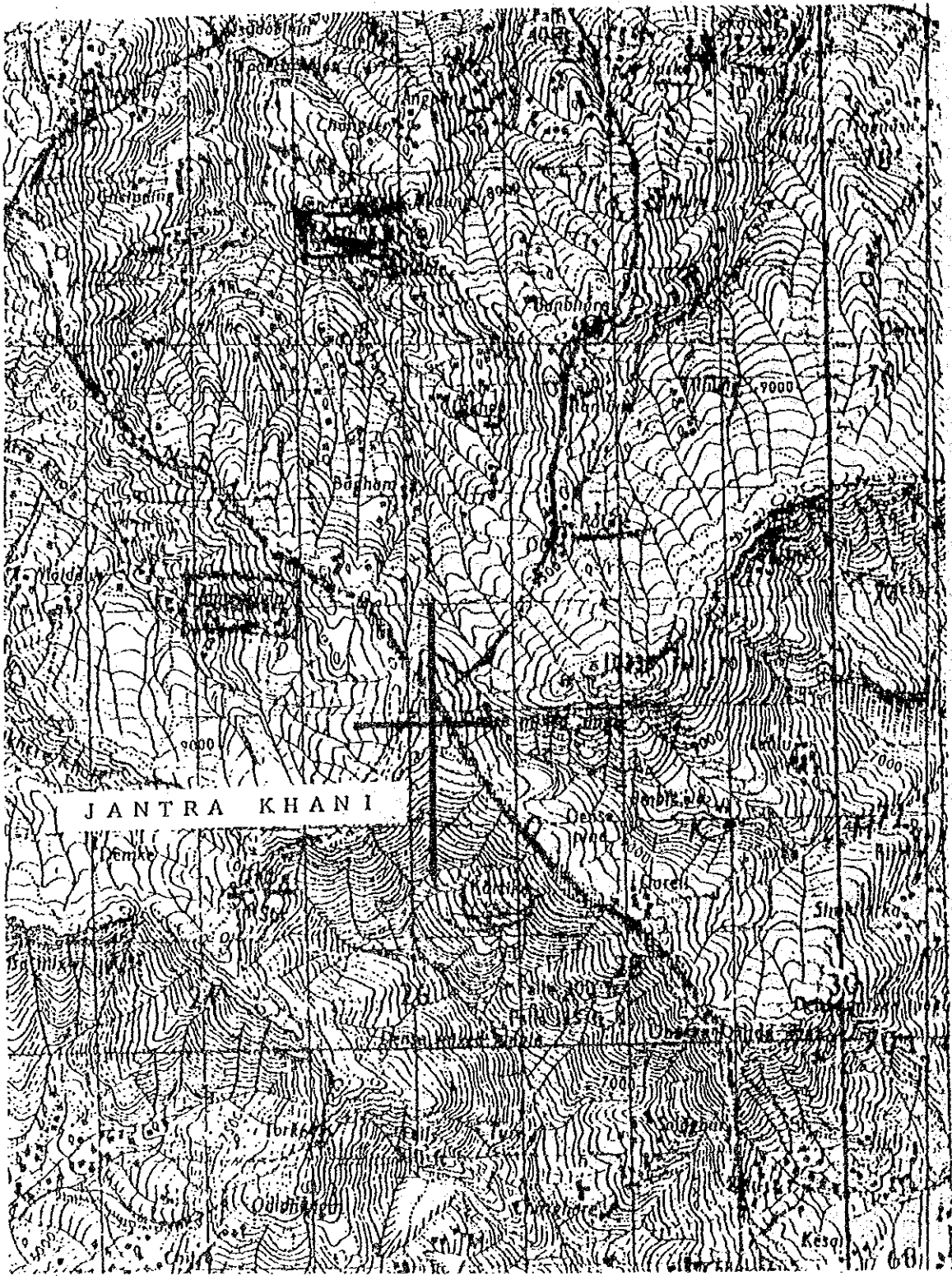


GUIDE MAP FOR PLANNED SITE	
SITE NAME	GURANSE
SCALE : 1/50,000	FIGURE-5-16 (16/23)
UNIT :	

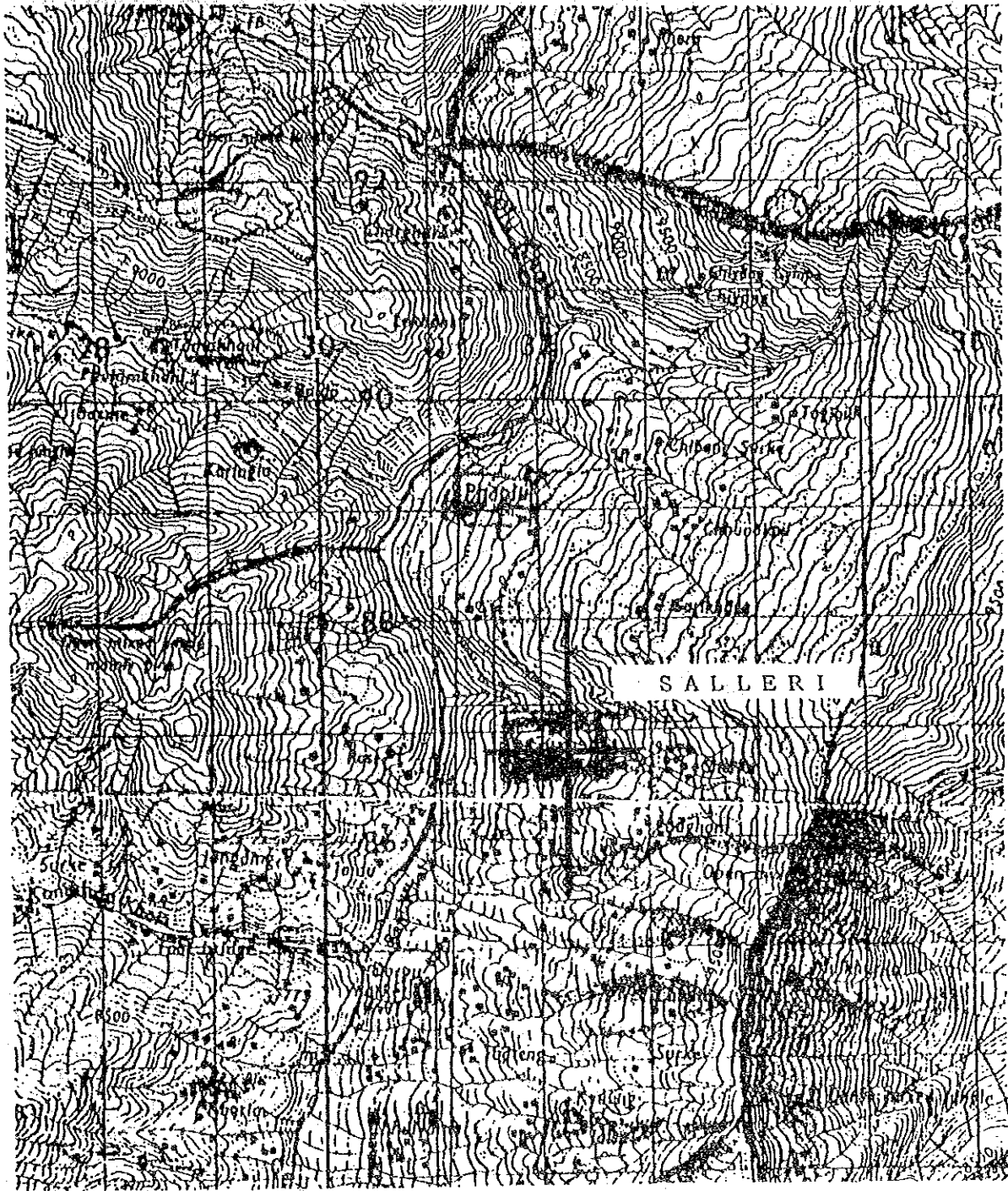


GUIDE MAP FOR PLANNED SITE

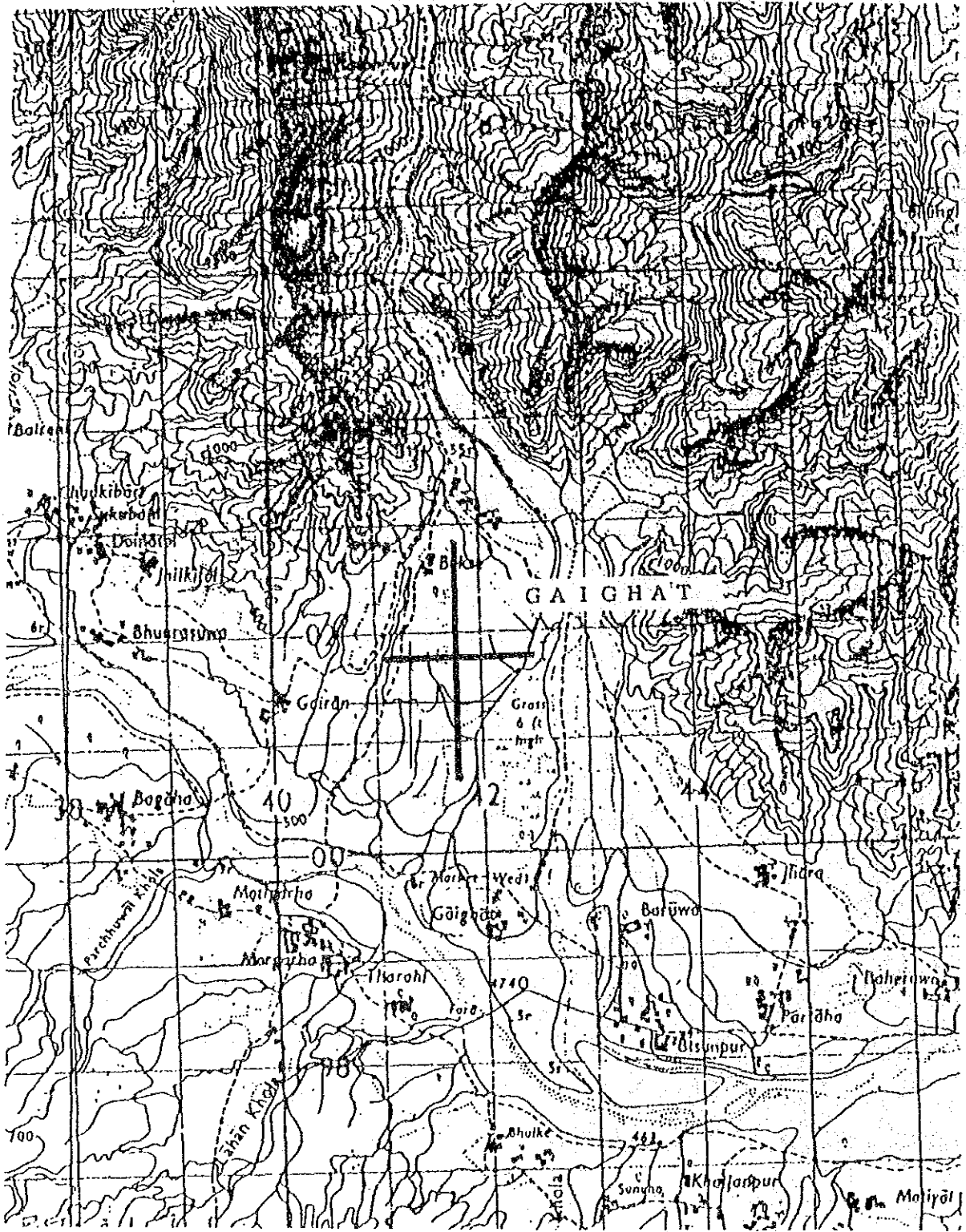
SITE NAME	KABRE
SCALE : 1/50,000	FIGURE-5-17 (17/23)
UNIT :	



GUIDE MAP FOR PLANNED SITE	
SITE NAME	JANTRA KHANI
SCALE : 1/50,000	FIGURE-5-18 (18/23)
UNIT :	



GUIDE MAP FOR PLANNED SITE	
SITE NAME	SALLERI
SCALE : 1/50,000	FIGURE-5-19 (19/23)
UNIT :	



GUIDE MAP FOR PLANNED SITE

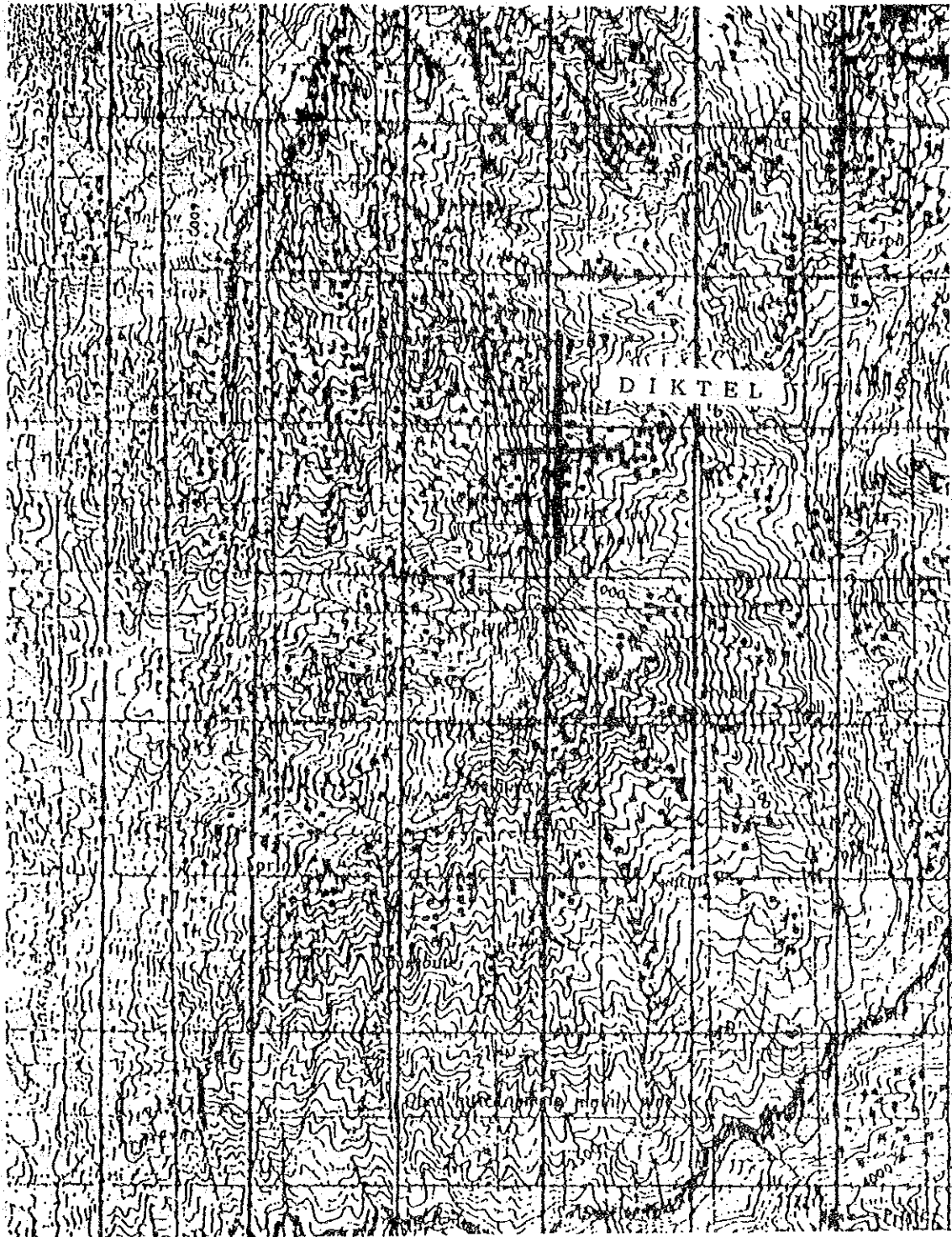
SITE NAME

GAIGHAT

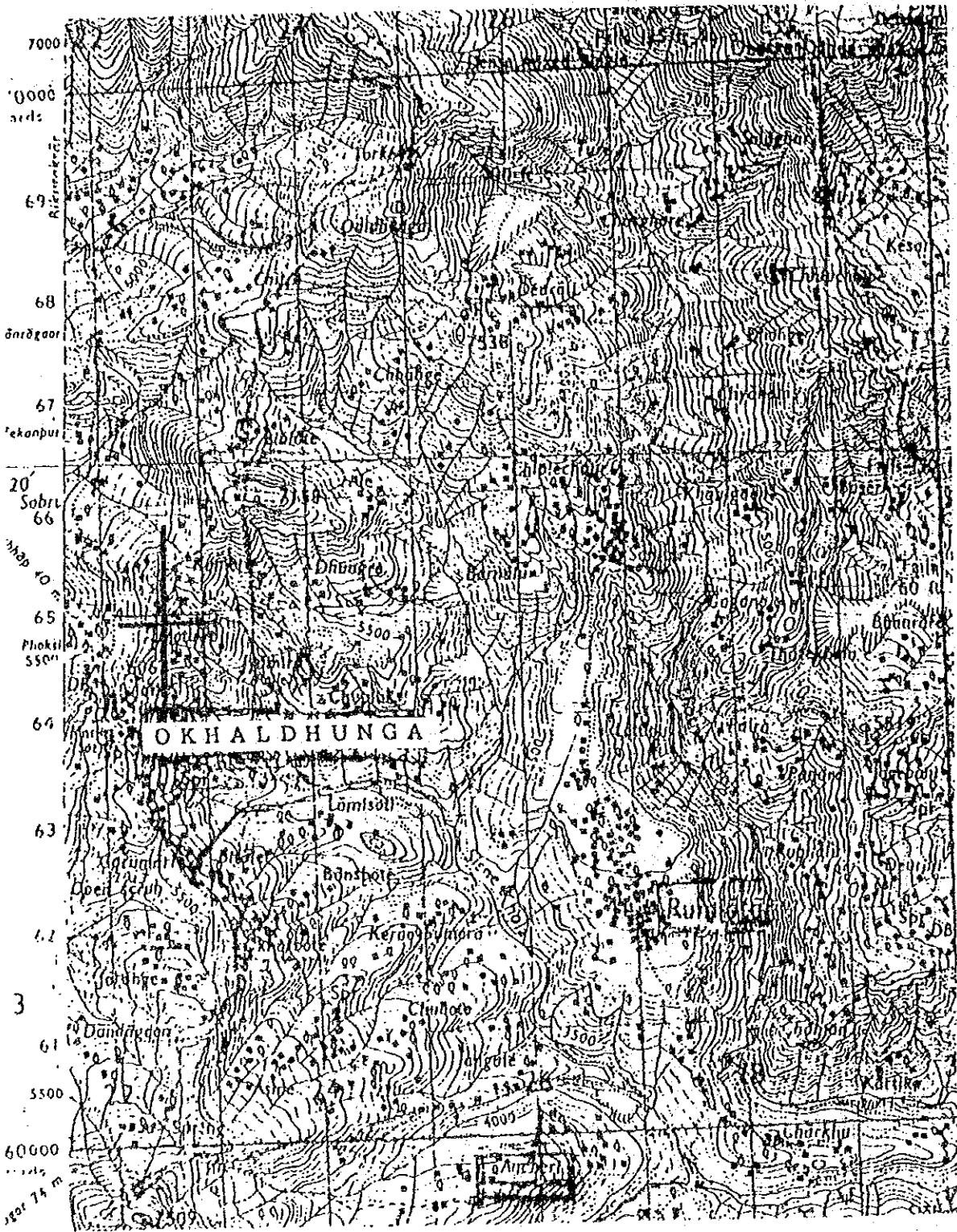
SCALE : 1/50,000

FIGURE-5-20 (20/23)

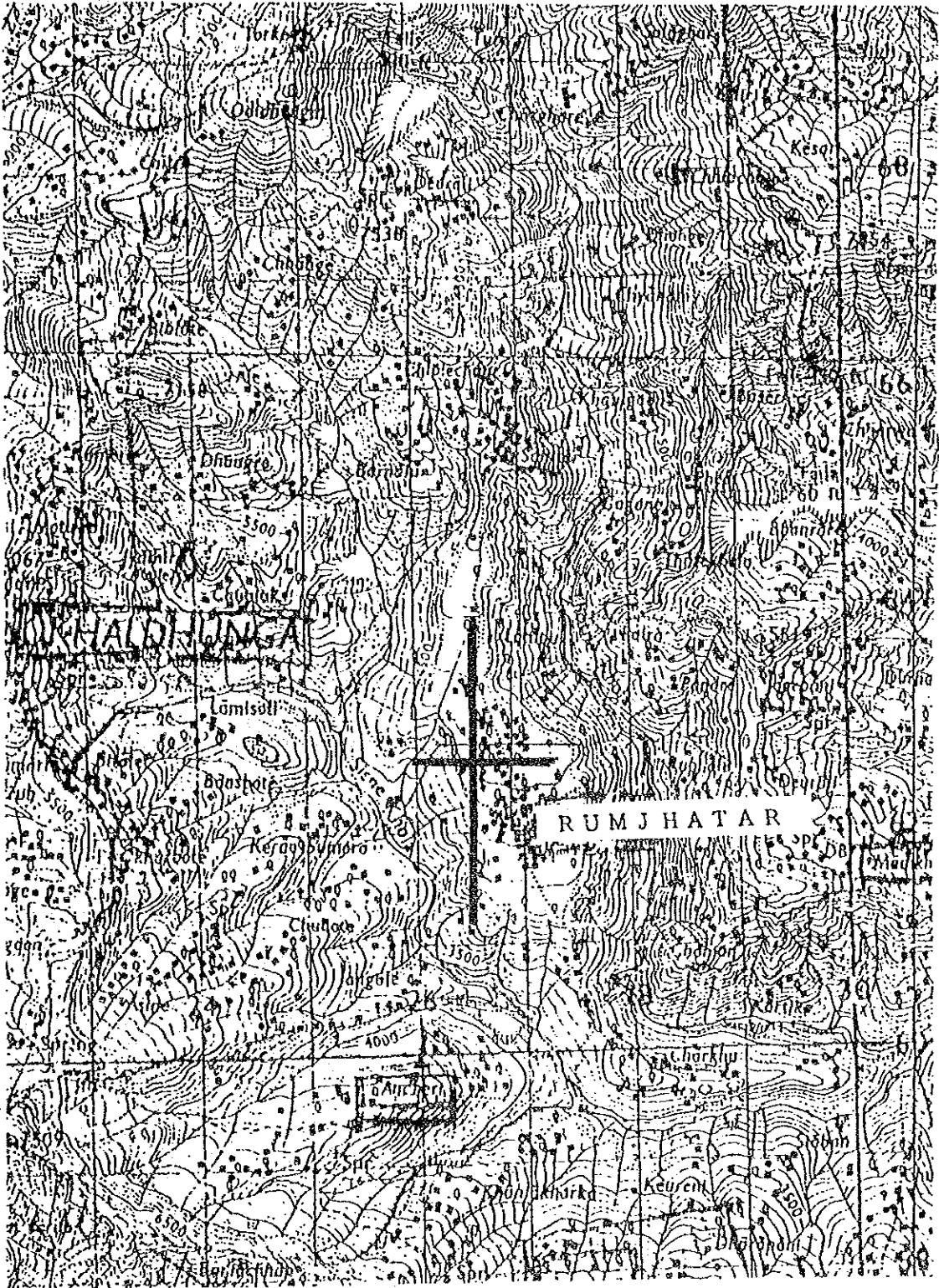
UNIT :



GUIDE MAP FOR PLANNED SITE	
SITE NAME	DIKTEL
SCALE : 1/50,000	FIGURE-5-21 (21/23)
UNIT :	



GUIDE MAP FOR PLANNED SITE	
SITE NAME	OKHALDHUNGA
SCALE : 1/50,000	FIGURE-5-22 (22/23)
UNIT :	



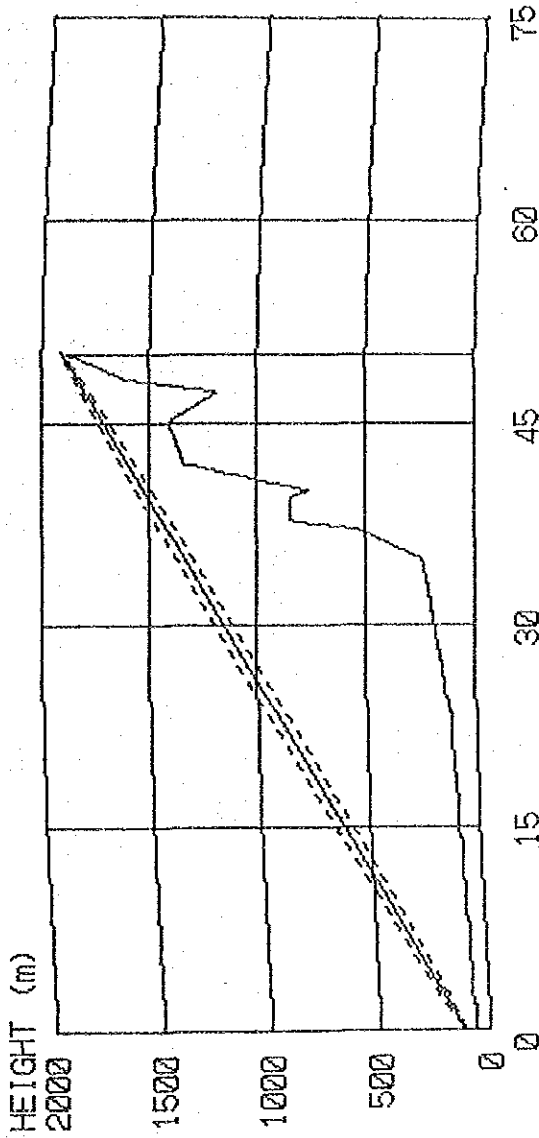
GUIDE MAP FOR PLANNED SITE	
SITE NAME	RUMJHATAR
SCALE : 1/50,000	FIGURE-5-23 (23/23)
UNIT :	

BASIC DESIGN - 6

RADIO TRANSMISSION PATH PROFILE

PROFILE

(K : 1.33 FREQUENCY : 2000 MHz)

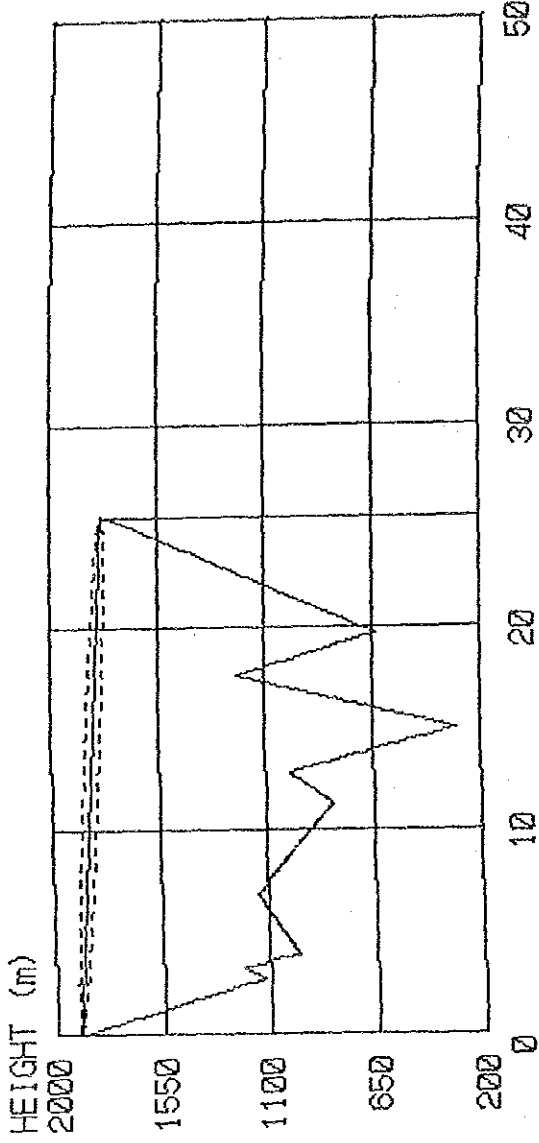


SITE NAME : BIRATNAGAR	DISTANCE : 50.2 km
GROUND LEVEL : 70.0 m	SITE NAME : MUREBAS
ANT.HEIGHT 1 : 40.0 m	GROUND LEVEL : 1891.0 m
	ANT.HEIGHT 2 : 10.0 m
ANT.HEIGHT 1 : 40.0 m	ANT.HEIGHT 2 : 10.0 m
CLITICAL POINT : 42.0 Km	RIDGE HEIGHT : 1342.0 m
TREE HEIGHT : 5.0 m	FRESNEL DEP. : 32.1 m
CLEARANCE : 241.2 m	CLEARANCE FAC. : 7.5
FREE SPACE LOSS : 132.5 dB	RIDGE LOSS : -0.1 dB
TOTAL LOSS : 132.4 dB	

RADIO TRANSMISSION PATH PROFILE	
SITE NAME	BIRATNAGAR ~ MUREBAS
SCALE :	FIGURE-6-1 (1/19)
UNIT :	

PROFILE

(K : 1.33 FREQUENCY : 2000 MHZ)



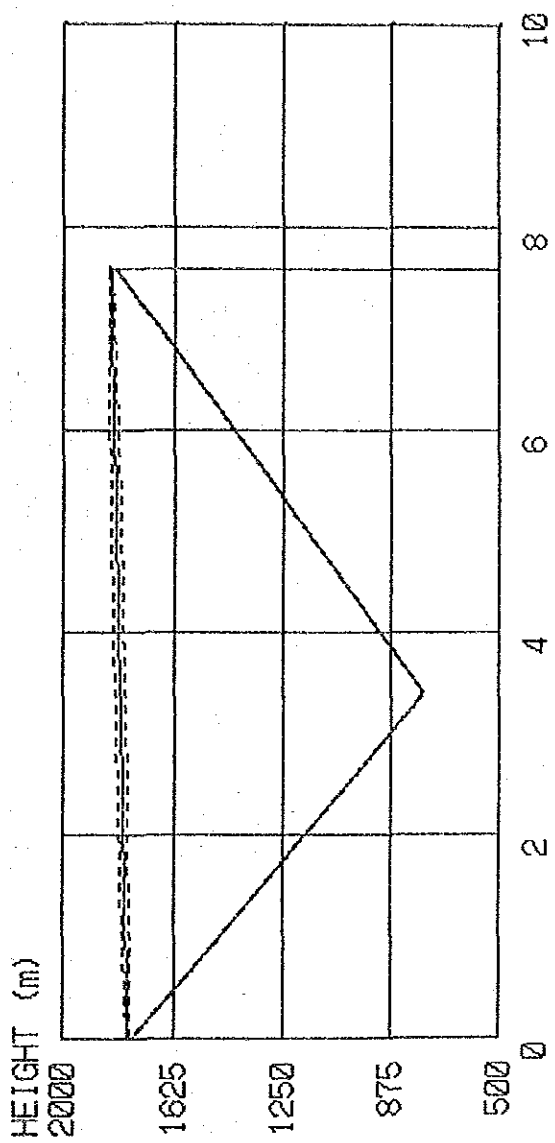
SITE NAME : MUREBAS DISTANCE : 25.5 km SITE NAME : GHAMPETOILE
 GROUND LEVEL : 1891.0 m GROUND LEVEL : 1768.0 m
 ANT.HEIGHT 1 : 10.0 m ANT.HEIGHT 2 : 10.0 m

ANT.HEIGHT 1	: 10.0 m	ANT.HEIGHT 2	: 10.0 m
CLITICAL POINT	: 17.6 Km	RIDGE HEIGHT	: 1220.0 m
TREE HEIGHT	: 5.0 m	FRESNEL DEP.	: 28.6 m
CLEARANCE	: 582.9 m	CLEARANCE FAC.	: 20.4
FREE SPACE LOSS	: 126.6 dB	RIDGE LOSS	: 0.0 dB
TOTAL LOSS	: 126.7 dB		

RADIO TRANSMISSION PATH PROFILE	
SITE NAME	MUREBAS~GHAMPETOILE
SCALE :	FIGURE-6-2 (2/19)
UNIT :	

PROFILE

(K : 1.33 FREQUENCY : 2000 MHz)



DISTANCE : 7.6 km

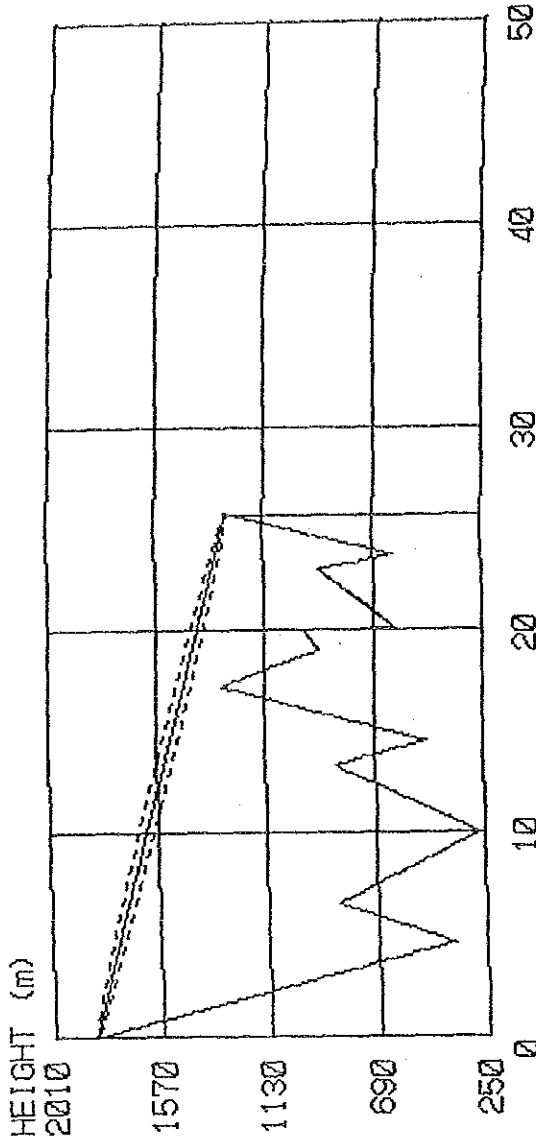
SITE NAME : GHAMPETOLE SITE NAME : RAMCHE
 GROUND LEVEL : 1768.0 m GROUND LEVEL : 1829.0 m
 ANT.HEIGHT 1 : 10.0 m ANT.HEIGHT 2 : 10.0 m

ANT. HEIGHT 1 : 10.0 m	ANT. HEIGHT 2 : 10.0 m
CLITICAL POINT : 3.4 Km	RIDGE HEIGHT : 763.0 m
TREE HEIGHT : 5.0 m	FRESNEL DEP. : 16.8 m
CLEARANCE : 1036.5 m	CLEARANCE FAC. : 61.7
FREE SPACE LOSS : 116.1 dB	RIDGE LOSS : 0.0 dB
TOTAL LOSS : 116.1 dB	

RADIO TRANSMISSION PATH PROFILE	
SITE NAME	GHAMPETOLE~RAMCHE
SCALE :	FIGURE-6-3 (3/19)
UNIT :	

P R O F I L E

(K : 1.33 F R E Q U E N C Y : 2000 M H Z)



D I S T A N C E : 25.7 km
 S I T E N A M E : C H A I N P U R
 G R O U N D L E V E L : 1266.0 m
 A N T . H E I G H T 2 : 15.0 m

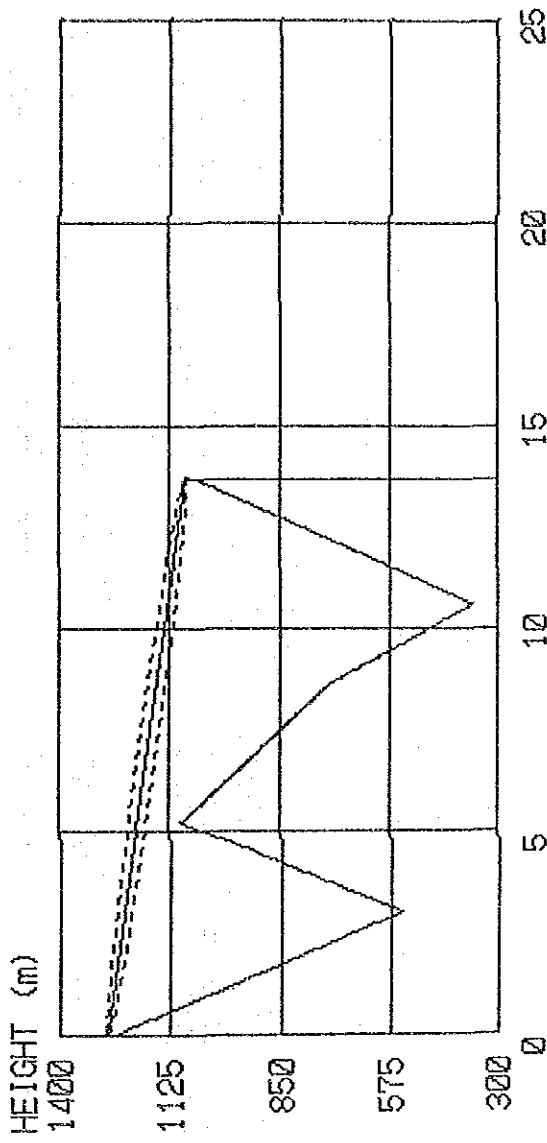
S I T E N A M E : R A M C H E
 G R O U N D L E V E L : 1829.0 m
 A N T . H E I G H T 1 : 10.0 m

A N T . H E I G H T 1	: 10.0 m	A N T . H E I G H T 2	: 15.0 m
C L I T I C A L P O I N T	: 17.2 Km	R I D G E H E I G H T	: 1312.0 m
T R E E H E I G H T	: 5.0 m	F R E S N E L D E P .	: 29.2 m
C L E A R A N C E	: 139.9 m	C L E A R A N C E F A C .	: 4.8
F R E E S P A C E L O S S	: 126.7 dB	R I D G E L O S S	: -0.2 dB
T O T A L L O S S	: 126.4 dB		

R A D I O T R A N S M I S S I O N P A T H P R O F I L E	
S I T E N A M E	R A M C H E ~ C H A I N P U R
S C A L E :	F I G U R E - 6 - 4 (4 / 1 9)
U N I T :	

P R O F I L E

(K : 1.33 F R E Q U E N C Y : 2000 M H Z)



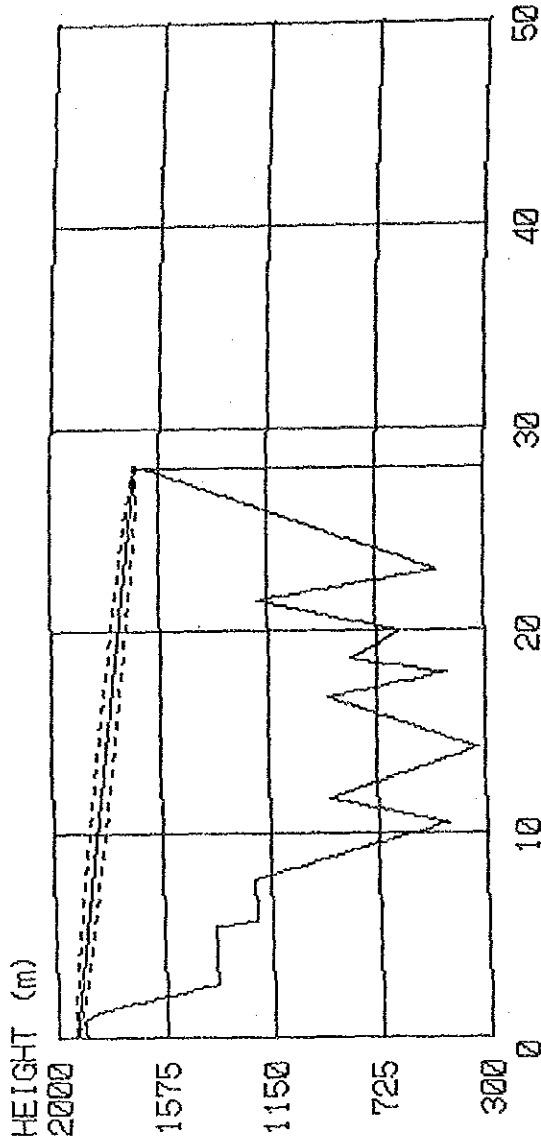
SITE NAME : CHAINPUR DISTANCE : 13.7 km SITE NAME : KHANDBARI
 GROUND LEVEL : 1266.0 m GROUND LEVEL : 1067.0 m
 ANT.HEIGHT 1 : 15.0 m ANT.HEIGHT 2 : 15.0 m

ANT.HEIGHT 1 : 15.0 m	ANT.HEIGHT 2 : 15.0 m
CLITICAL POINT : 5.2 Km	RIDGE HEIGHT : 1098.0 m
TREE HEIGHT : 5.0 m	FRESNEL DEP. : 22.0 m
CLEARANCE : 99.9 m	CLEARANCE FAC. : 4.5
FREE SPACE LOSS : 121.2 dB	RIDGE LOSS : -0.3 dB
TOTAL LOSS : 120.9 dB	

RADIO TRANSMISSION PATH PROFILE	
SITE NAME	CHAINPUR~KHANDBARI
SCALE :	FIGURE-6-5 (5/19)
UNIT :	

PROFILE

(K : 1.33 FREQUENCY : 2000 MHz)



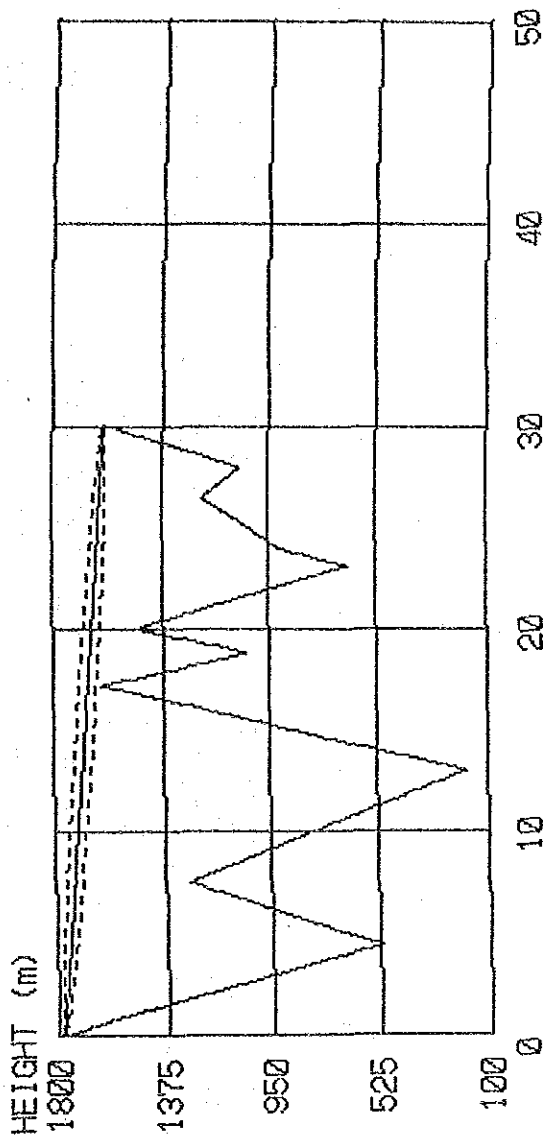
SITE NAME : MUREBAS DISTANCE : 28.1 km SITE NAME : TERHATHUM
 GROUND LEVEL : 1891.0 m GROUND LEVEL : 1645.0 m
 ANT.HEIGHT 1 : 35.0 m ANT.HEIGHT 2 : 20.0 m

ANT.HEIGHT 1	: 35.0 m	ANT.HEIGHT 2	: 20.0 m
CLITICAL POINT	: 0.8 Km	RIDGE HEIGHT	: 1905.0 m
TREE HEIGHT	: 3.0 m	FRESNEL DEP.	: 10.8 m
CLEARANCE	: 9.3 m	CLEARANCE FAC.	: 0.9
FREE SPACE LOSS	: 127.5 dB	RIDGE LOSS	: -1.4 dB
TOTAL LOSS	: 126.1 dB		

RADIO TRANSMISSION PATH PROFILE	
SITE NAME	MUREBAS~TERHATHUM
SCALE :	FIGURE-6-6 (6/19)
UNIT :	

P R O F I L E

(K : 1.33 F R E Q U E N C Y : 2000 M H Z)

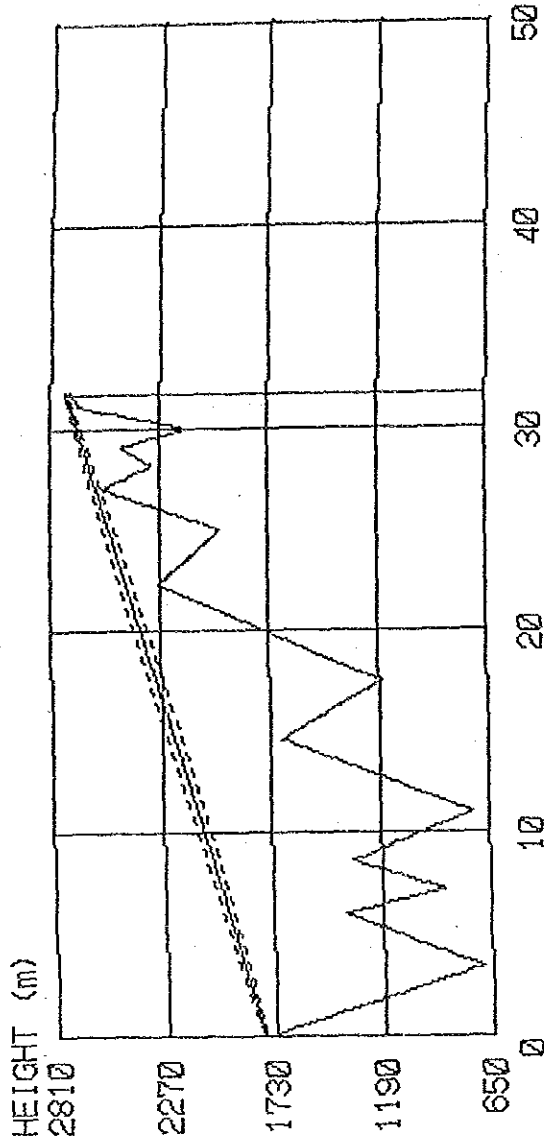


SITE NAME : GHAMPETOILE	DISTANCE : 30 km
GROUND LEVEL : 1768.0 m	SITE NAME : BHOJPUR
ANT.HEIGHT 1 : 10.0 m	GROUND LEVEL : 1585.0 m
	ANT.HEIGHT 2 : 15.0 m
ANT.HEIGHT 1 : 10.0 m	ANT.HEIGHT 2 : 15.0 m
CLITICAL POINT : 17.2 Km	RIDGE HEIGHT : 1616.0 m
TREE HEIGHT : 5.0 m	FRESNEL DEP. : 33.2 m
CLEARANCE : 42.0 m	CLEARANCE FAC. : 1.3
FREE SPACE LOSS : 128.0 dB	RIDGE LOSS : 0.9 dB
TOTAL LOSS : 129.0 dB	

RADIO TRANSMISSION PATH PROFILE	
SITE NAME	GHAMPETOILE~BHOJPUR
SCALE :	FIGURE-6-7 (7/19)
UNIT :	

PROFILE

(K : 1.33 FREQUENCY : 2000 MHZ)



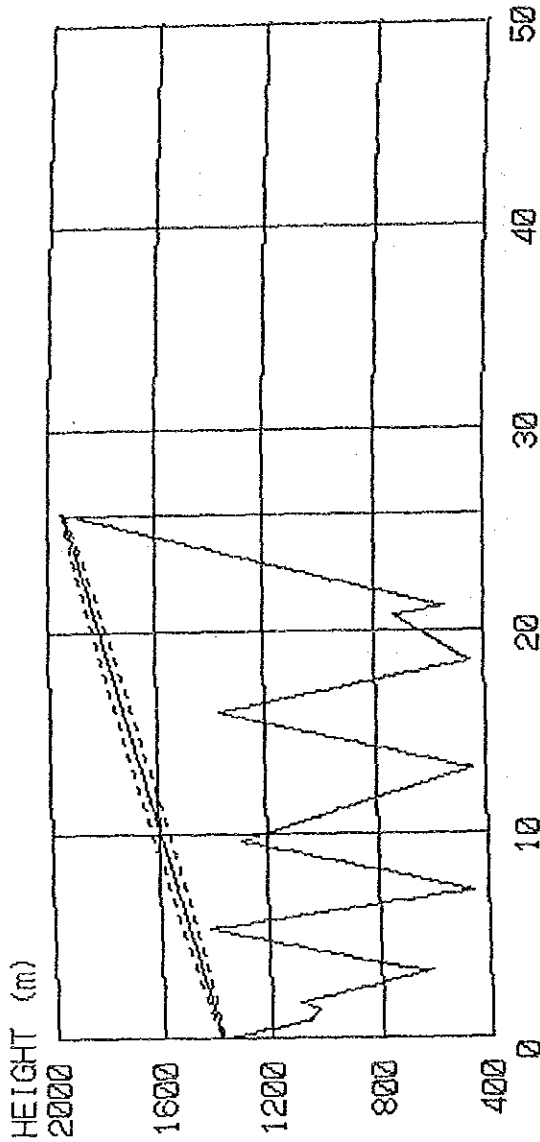
DISTANCE : 31.8 km
 SITE NAME : SILAUTE
 GROUND LEVEL : 2712.0 m
 ANT. HEIGHT 2 : 20.0 m
 SITE NAME : AITABARE
 GROUND LEVEL : 1768.0 m
 ANT. HEIGHT 1 : 15.0 m

ANT. HEIGHT 1	:	15.0 m	:	ANT. HEIGHT 2	:	20.0 m
CRITICAL POINT	:	27.0 Km	:	RIDGE HEIGHT	:	2560.0 m
TREE HEIGHT	:	5.0 m	:	FRESNEL DEP.	:	24.7 m
CLEARANCE	:	16.1 m	:	CLEARANCE FAC.	:	0.7
FREE SPACE LOSS	:	128.5 dB	:	RIDGE LOSS	:	-0.7 dB
TOTAL LOSS	:	127.8 dB	:		:	

RADIO TRANSMISSION PATH PROFILE	
SITE NAME	AITABARE ~ SILAUTE
SCALE :	FIGURE-6-8 (8/19)
UNIT :	

P R O F I L E

(K : 1.33 F R E Q U E N C Y : 2000 M H Z)



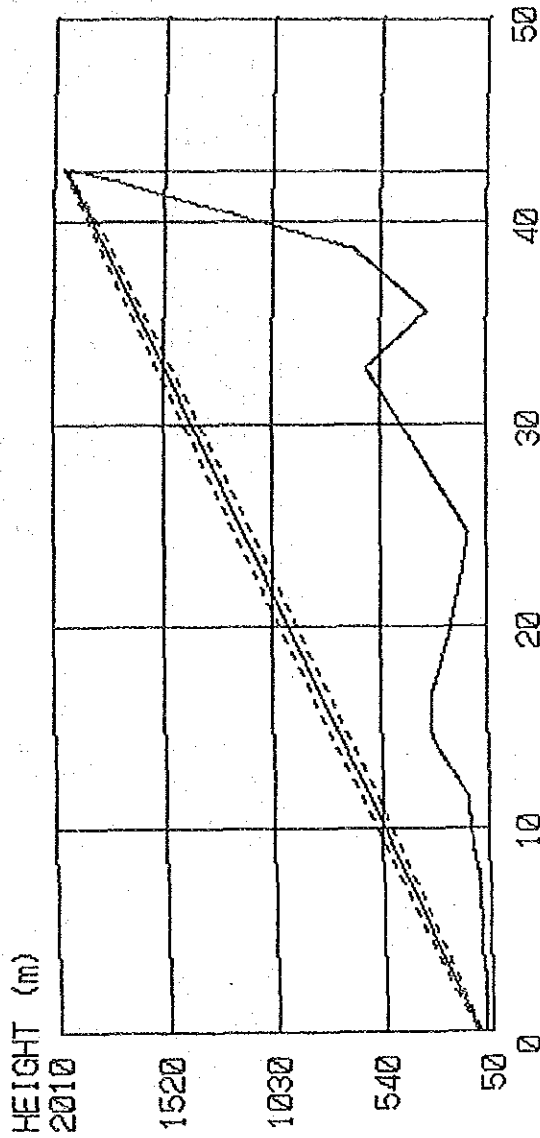
DISTANCE : 25.8 km
 SITE NAME : TAPLEJUNG
 GROUND LEVEL : 1921.0 m
 ANT.HEIGHT 2 : 15.0 m
 SITE NAME : PHIDIM
 GROUND LEVEL : 1372.0 m
 ANT.HEIGHT 1 : 10.0 m

ANT.HEIGHT 1 : 10.0 m	ANT.HEIGHT 2 : 15.0 m
CLITICAL POINT : 5.4 Km	RIDGE HEIGHT : 1418.0 m
TREE HEIGHT : 5.0 m	FRESNEL DEP. : 25.2 m
CLEARANCE : 67.4 m	CLEARANCE FAC. : 2.7
FREE SPACE LOSS : 126.7 dB	RIDGE LOSS : -0.2 dB
TOTAL LOSS : 126.5 dB	

RADIO TRANSMISSION PATH PROFILE	
SITE NAME	TAPLEJUNG~PHIDIM
SCALE :	FIGURE-6-10 (10/19)
UNIT :	

PROFILE

(K : 1.33 FREQUENCY : 2000 MHz)

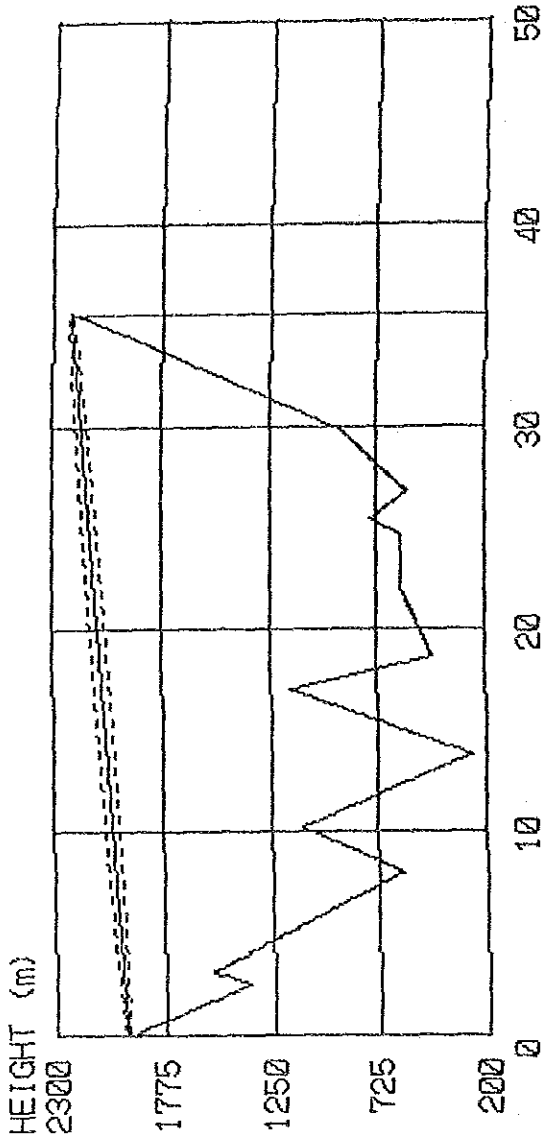


SITE NAME : RAJBIRAJ	DISTANCE : 42.6 km	SITE NAME : ROTAHA
GROUND LEVEL : 82.0 m		GROUND LEVEL : 1947.0 m
ANT.HEIGHT 1 : 30.0 m		ANT.HEIGHT 2 : 10.0 m
CLITICAL POINT : 3.2 Km		RIDGE HEIGHT : 91.5 m
TREE HEIGHT : 5.0 m		FRESNEL DEP. : 21.1 m
CLEARANCE : 146.7 m		CLEARANCE FAC. : 7.0
FREE SPACE LOSS : 131.1 dB		RIDGE LOSS : -0.1 dB
TOTAL LOSS : 130.9 dB		

RADIO TRANSMISSION PATH PROFILE	
SITE NAME	RAJBIRAJ~ROTAHA
SCALE :	FIGURE-6-11 (11/19)
UNIT :	

PROFILE

(K : 1.33 FREQUENCY : 2000 MHZ)



DISTANCE : 35.6 km

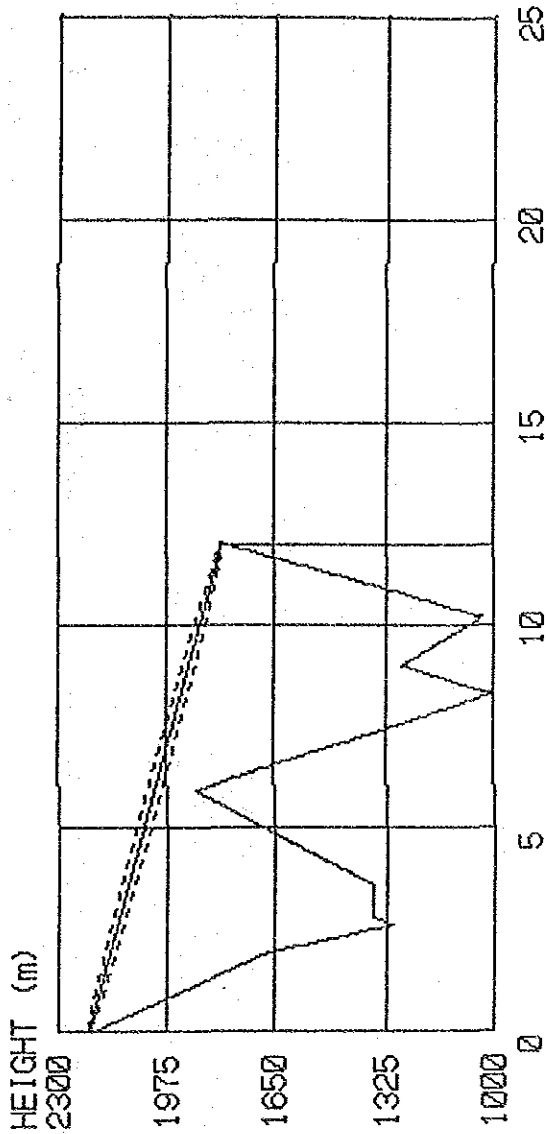
SITE NAME : ROTAHA SITE NAME : GURANSE
 GROUND LEVEL : 1947.0 m GROUND LEVEL : 2196.0 m
 ANT.HEIGHT 1 : 10.0 m ANT.HEIGHT 2 : 10.0 m

ANT.HEIGHT 1	: 10.0 m	ANT.HEIGHT 2	: 10.0 m
CRITICAL POINT	: 3.1 Km	RIDGE HEIGHT	: 1555.0 m
TREE HEIGHT	: 5.0 m	FRESNEL DEP.	: 20.6 m
CLEARANCE	: 412.8 m	CLEARANCE FAC.	: 20.0
FREE SPACE LOSS	: 129.5 dB	RIDGE LOSS	: 0.0 dB
TOTAL LOSS	: 129.5 dB		

RADIO TRANSMISSION PATH PROFILE	
SITE NAME	ROTAHA ~ GURANSE
SCALE :	FIGURE-6-12 (12/19)
UNIT :	

P R O F I L E

(K : 1.33 F R E Q U E N C Y : 2000 M H Z)

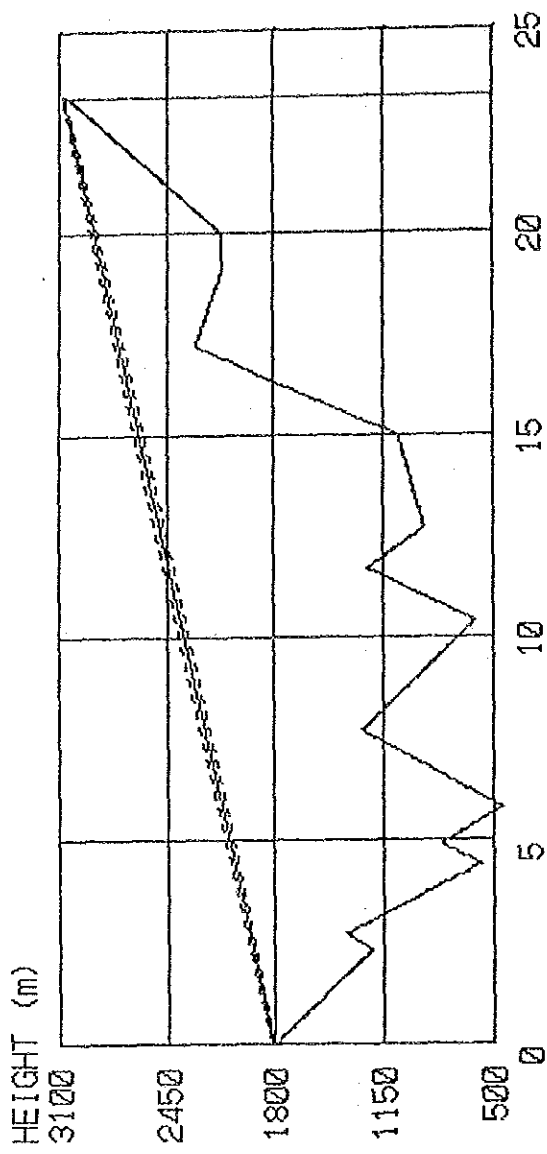


SITE NAME : GURANSE GROUND LEVEL : 2196.0 m ANT.HEIGHT 1 : 10.0 m	DISTANCE : 12 km SITE NAME : KABRE GROUND LEVEL : 1798.0 m ANT.HEIGHT 2 : 10.0 m
ANT.HEIGHT 1 : 10.0 m CLITICAL POINT : 5.9 Km TREE HEIGHT : 5.0 m CLEARANCE : 112.2 m FREE SPACE LOSS : 120.1 dB TOTAL LOSS : 120.3 dB	ANT.HEIGHT 2 : 10.0 m RIDGE HEIGHT : 1891.0 m FRESNEL DEP. : 21.2 m CLEARANCE FAC. : 5.3 RIDGE LOSS : 0.2 dB

RADIO TRANSMISSION PATH PROFILE	
SITE NAME	GURANSE ~ KABRE
SCALE :	FIGURE-6-13 (13/19)
UNIT :	

PROFILE

(K : 1.33 FREQUENCY : 2000 MHz)



DISTANCE : 23.4 km

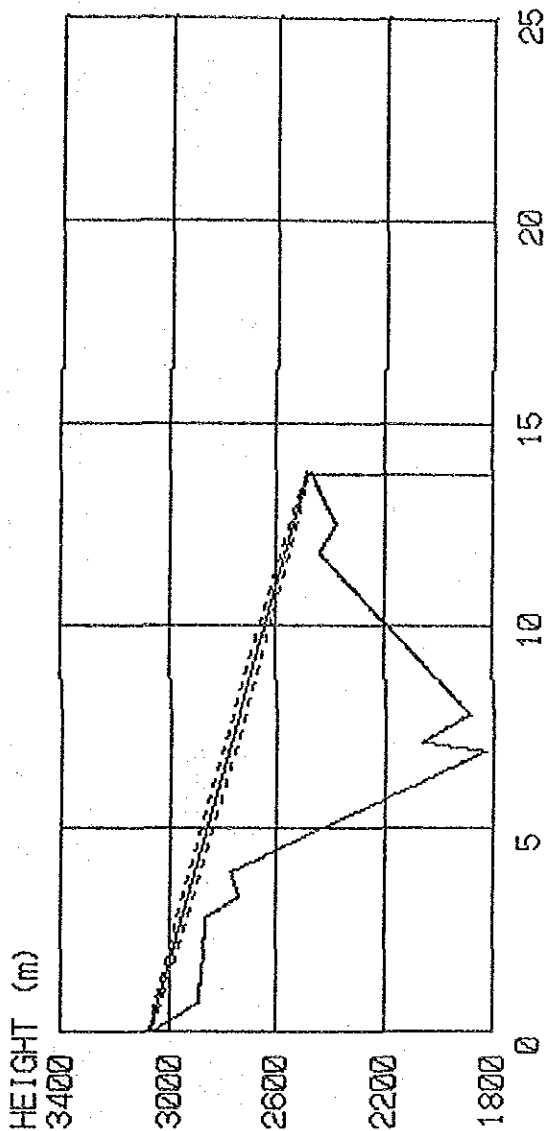
SITE NAME : KABRE	SITE NAME : JANTRA KHANI
GROUND LEVEL : 1798.0 m	GROUND LEVEL : 3063.0 m
ANT.HEIGHT 1 : 10.0 m	ANT.HEIGHT 2 : 10.0 m

ANT.HEIGHT 1 : 10.0 m	ANT.HEIGHT 2 : 10.0 m
CLITICAL POINT : 17.2 Km	RIDGE HEIGHT : 2287.0 m
TREE HEIGHT : 5.0 m	FRESNEL DEP. : 26.1 m
CLEARANCE : 439.6 m	CLEARANCE FAC. : 16.8
FREE SPACE LOSS : 125.9 dB	RIDGE LOSS : -0.1 dB
TOTAL LOSS : 125.8 dB	

RADIO TRANSMISSION PATH PROFILE	
SITE NAME	KABRE~JANTRA KHANI
SCALE :	FIGURE-6-14 (14/19)
UNIT :	

PROFILE

(K : 1.33 FREQUENCY : 2000 MHZ)



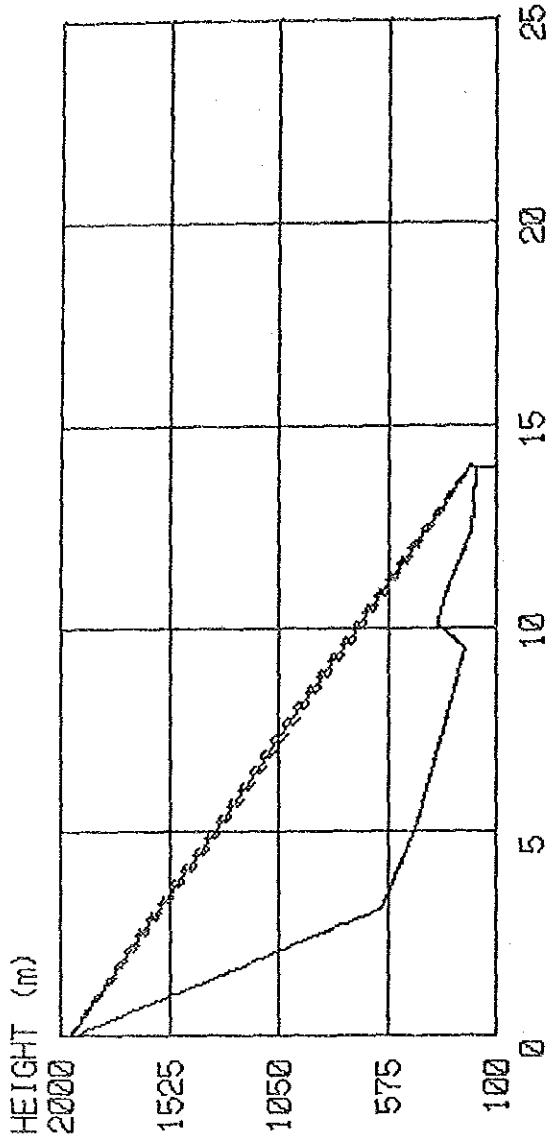
SITE NAME : JANTRA KHANI DISTANCE : 13.8 km SITE NAME : SALLERI
 GROUND LEVEL : 3063.0 m GROUND LEVEL : 2469.0 m
 ANT.HEIGHT 1 : 10.0 m ANT.HEIGHT 2 : 10.0 m

ANT.HEIGHT 1 : 10.0 m	ANT.HEIGHT 2 : 10.0 m
CLITICAL POINT : 2.8 Km	RIDGE HEIGHT : 2867.0 m
TREE HEIGHT : 5.0 m	FRESNEL DEP. : 18.3 m
CLEARANCE : 78.7 m	CLEARANCE FAC. : 4.3
FREE SPACE LOSS : 121.3 dB	RIDGE LOSS : -0.2 dB
TOTAL LOSS : 121.1 dB	

RADIO TRANSMISSION PATH PROFILE	
SITE NAME	JANTRA KHANI~SALLERI
SCALE :	FIGURE-6-15 (15/19)
UNIT :	

PROFILE

(K : 1.33 FREQUENCY : 2000 MHZ)



DISTANCE : 14 km

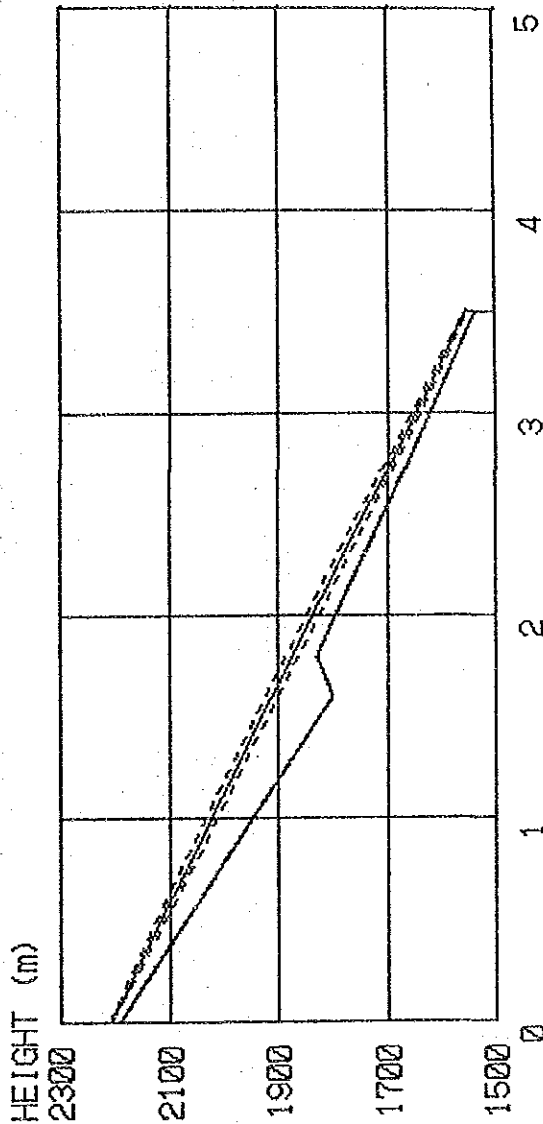
SITE NAME : ROTAHA SITE NAME : GAIGHAT
 GROUND LEVEL : 1946.0 m GROUND LEVEL : 192.0 m
 ANT.HEIGHT 1 : 10.0 m ANT.HEIGHT 2 : 15.0 m

ANT.HEIGHT 1 : 10.0 m	ANT.HEIGHT 2 : 15.0 m
CRITICAL POINT : 12.4 Km	RIDGE HEIGHT : 213.0 m
TREE HEIGHT : 5.0 m	FRESNEL DEP. : 14.6 m
CLEARANCE : 187.7 m	CLEARANCE FAC. : 12.9
FREE SPACE LOSS : 121.4 dB	RIDGE LOSS : 0.1 dB
TOTAL LOSS : 121.5 dB	

RADIO TRANSMISSION PATH PROFILE	
SITE NAME	ROTAHA ~ GAIGHAT
SCALE :	FIGURE-6-16 (16/19)
UNIT :	

PROFILE

(K : 1.33 FREQUENCY : 2000 MHz)

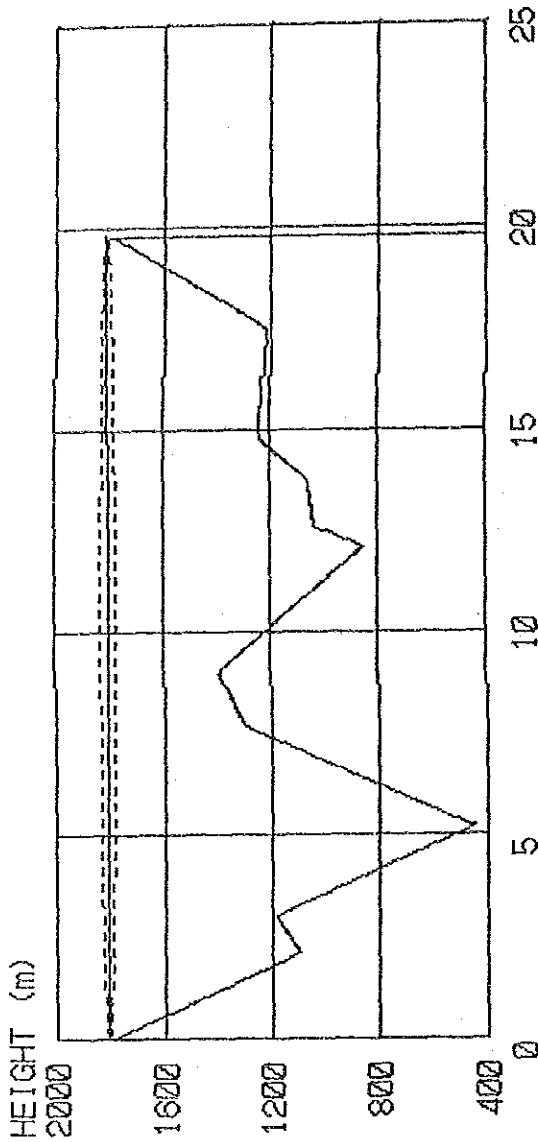


SITE NAME : GURANSE GROUND LEVEL : 2196.0 m ANT.HEIGHT 1 : 15.0 m	DISTANCE : 3.5 km SITE NAME : DIKTEL GROUND LEVEL : 1539.0 m ANT.HEIGHT 2 : 15.0 m
ANT. HEIGHT 1 : 15.0 m CLITICAL POINT : 1.8 Km TREE HEIGHT : 5.0 m CLEARANCE : 37.9 m FREE SPACE LOSS : 109.4 dB TOTAL LOSS : 109.0 dB	ANT. HEIGHT 2 : 15.0 m RIDGE HEIGHT : 1830.0 m FRESNEL DEP. : 11.5 m CLEARANCE FAC. : 3.3 RIDGE LOSS : -0.3 dB

RADIO TRANSMISSION PATH PROFILE	
SITE NAME	GURANSE~DIKTEL
SCALE :	FIGURE-6-17 (17/19)
UNIT :	

PROFILE

(K : 1.33 FREQUENCY : 2000 MHz)



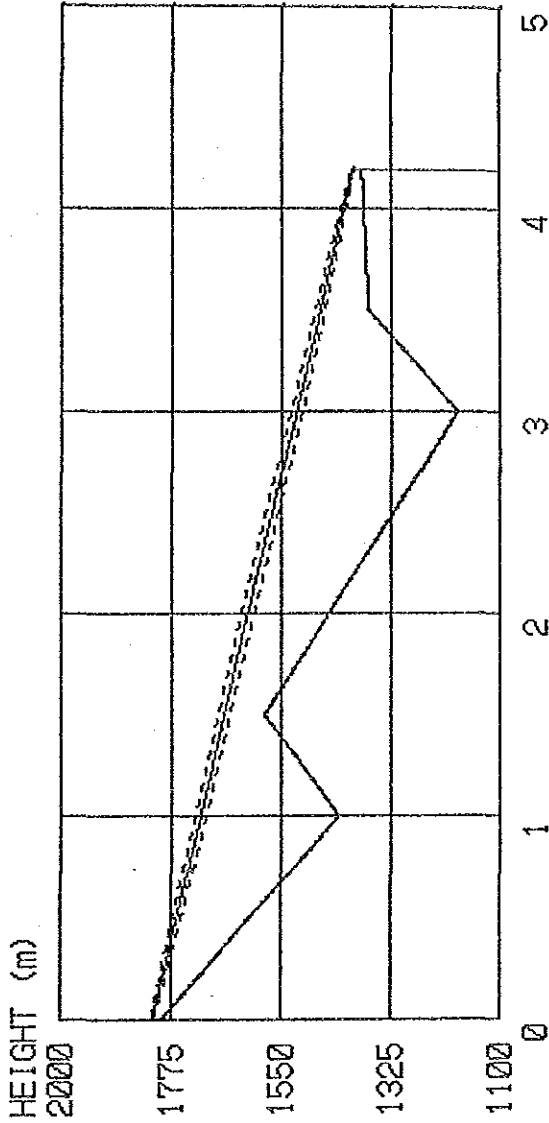
DISTANCE : 19.8 km
 SITE NAME : KABRE SITE NAME : OKHALDHUNGA
 GROUND LEVEL : 1798.0 m GROUND LEVEL : 1798.0 m
 ANT.HEIGHT 1 : 10.0 m ANT.HEIGHT 2 : 10.0 m

ANT.HEIGHT 1 : 10.0 m	ANT.HEIGHT 2 : 10.0 m
CRITICAL POINT : 9.0 Km	RIDGE HEIGHT : 1403.0 m
TREE HEIGHT : 5.0 m	FRESNEL DEP. : 27.1 m
CLEARANCE : 394.3 m	CLEARANCE FAC. : 14.5
FREE SPACE LOSS : 124.4 dB	RIDGE LOSS : -0.0 dB
TOTAL LOSS : 124.4 dB	

RADIO TRANSMISSION PATH PROFILE	
SITE NAME	KABRE~OKHALDHUNGA
SCALE :	FIGURE-6-18 (18/19)
UNIT :	

PROFILE

(K : 1.33 FREQUENCY : 2000 MHz)



SITE NAME : OKHALDHUNGA DISTANCE : 4.2 km SITE NAME : RUMJHATAR
 GROUND LEVEL : 1798.0 m GROUND LEVEL : 1387.0 m
 ANT.HEIGHT 1 : 15.0 m ANT.HEIGHT 2 : 15.0 m

ANT.HEIGHT 1 : 15.0 m	ANT.HEIGHT 2 : 15.0 m
CLITICAL POINT : 1.5 Km	RIDGE HEIGHT : 1586.0 m
TREE HEIGHT : 5.0 m	FRESNEL DEP. : 12.0 m
CLEARANCE : 75.0 m	CLEARANCE FAC. : 6.2
FREE SPACE LOSS : 110.9 dB	RIDGE LOSS : -0.2 dB
TOTAL LOSS : 110.7 dB	

RADIO TRANSMISSION PATH PROFILE	
SITE NAME	OKHALDHUNGA ~ RUMJHATAR
SCALE :	FIGURE-6-19 (19/19)
UNIT :	

JICA