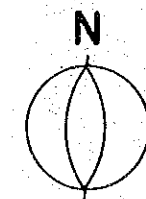


NEPAL

Road Network

1978
Existing, Under Construction, Planned and Proposed



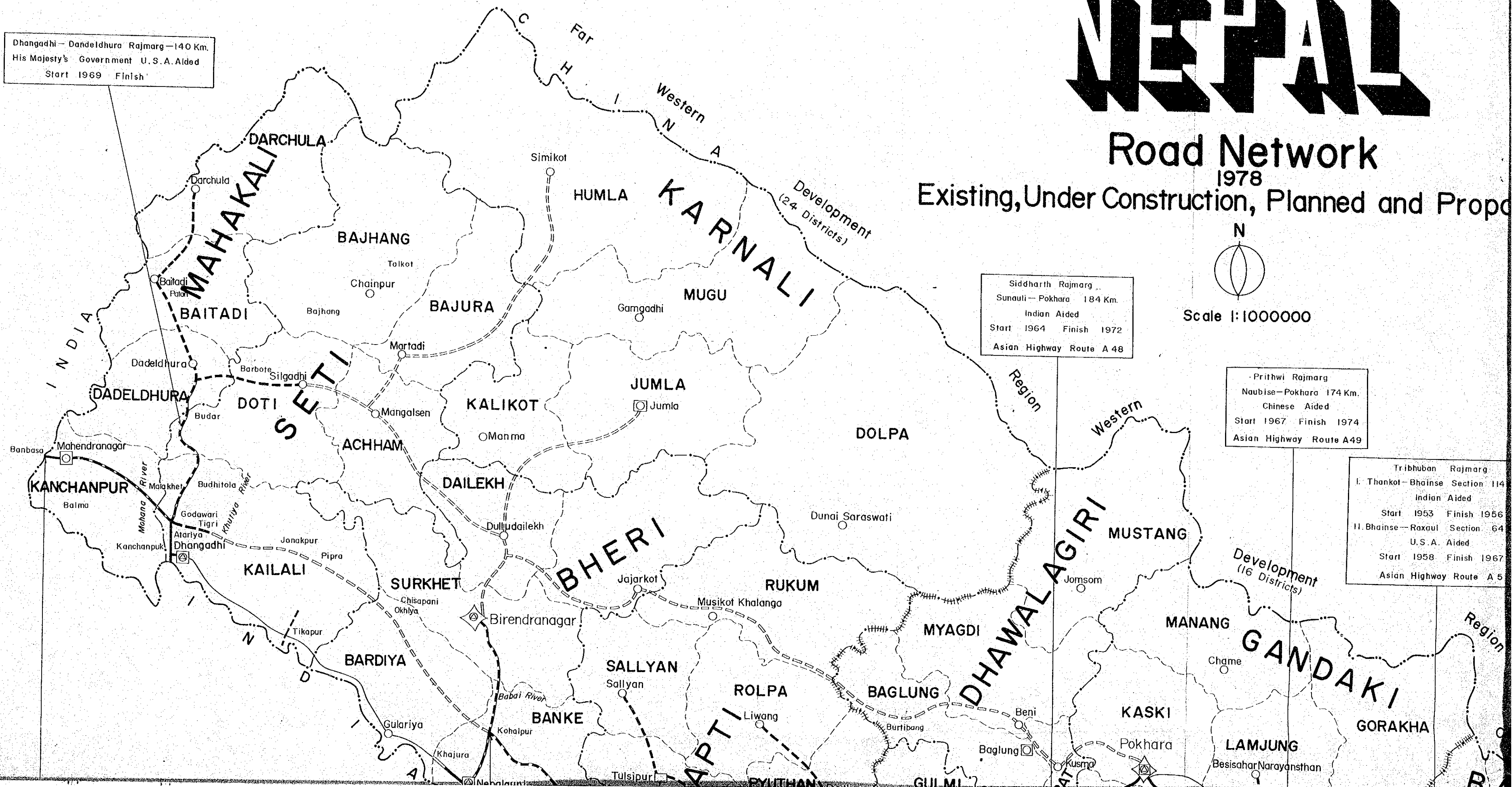
Scale 1:1000000

Dhangadhi - Dandeldhura Rajmarg - 140 Km.
His Majesty's Government U.S.A. Aided
Start 1969 Finish

Siddharth Rajmarg
Sunauli - Pokhara 184 Km.
Indian Aided
Start 1964 Finish 1972
Asian Highway Route A 48

Prithwi Rajmarg
Naubise - Pokhara 174 Km.
Chinese Aided
Start 1967 Finish 1974
Asian Highway Route A 49

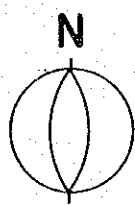
Tribhuban Rajmarg
I. Thankot - Bhainse Section 114
Indian Aided
Start 1953 Finish 1956
II. Bhainse - Raxaul Section 64
U.S.A. Aided
Start 1958 Finish 1967
Asian Highway Route A 5



NEPAL

Road Network 1978

Existing, Under Construction, Planned and Proposed



Scale 1:1000000

Siddharth Rajmarg
Sunauli—Pokhara 184 Km.
Indian Aided
Start 1964 Finish 1972
Asian Highway Route A 48

Prithwi Rajmarg
Naubise—Pokhara 174 Km.
Chinese Aided
Start 1967 Finish 1974
Asian Highway Route A 49

Tribhuban Rajmarg
I. Thankot—Bhainse Section 114 Km.
Indian Aided
Start 1953 Finish 1956
II. Bhainse—Raxaul Section 64 Km.
U.S.A. Aided
Start 1958 Finish 1967
Asian Highway Route A 5

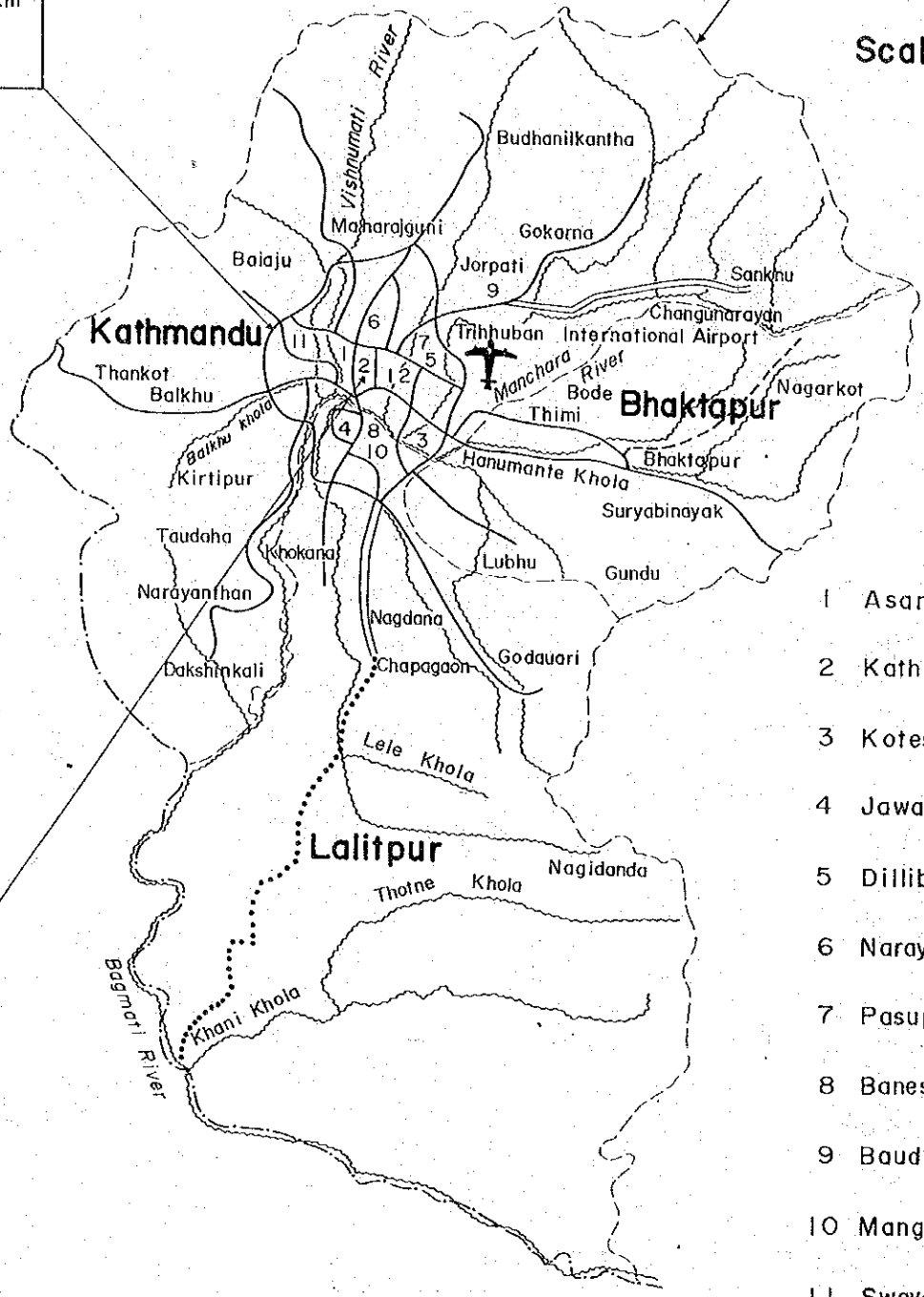
Arniko Rajmarg
Kathmandu—Kodari—114 Km.
Chinese Aided
Start 1963 Finish 1967
Asian Highway Route A 5

Lamosangu—Jiri Road 105 Km.
His Majesty's Government & Swiss Loan
Start 1975 Finish

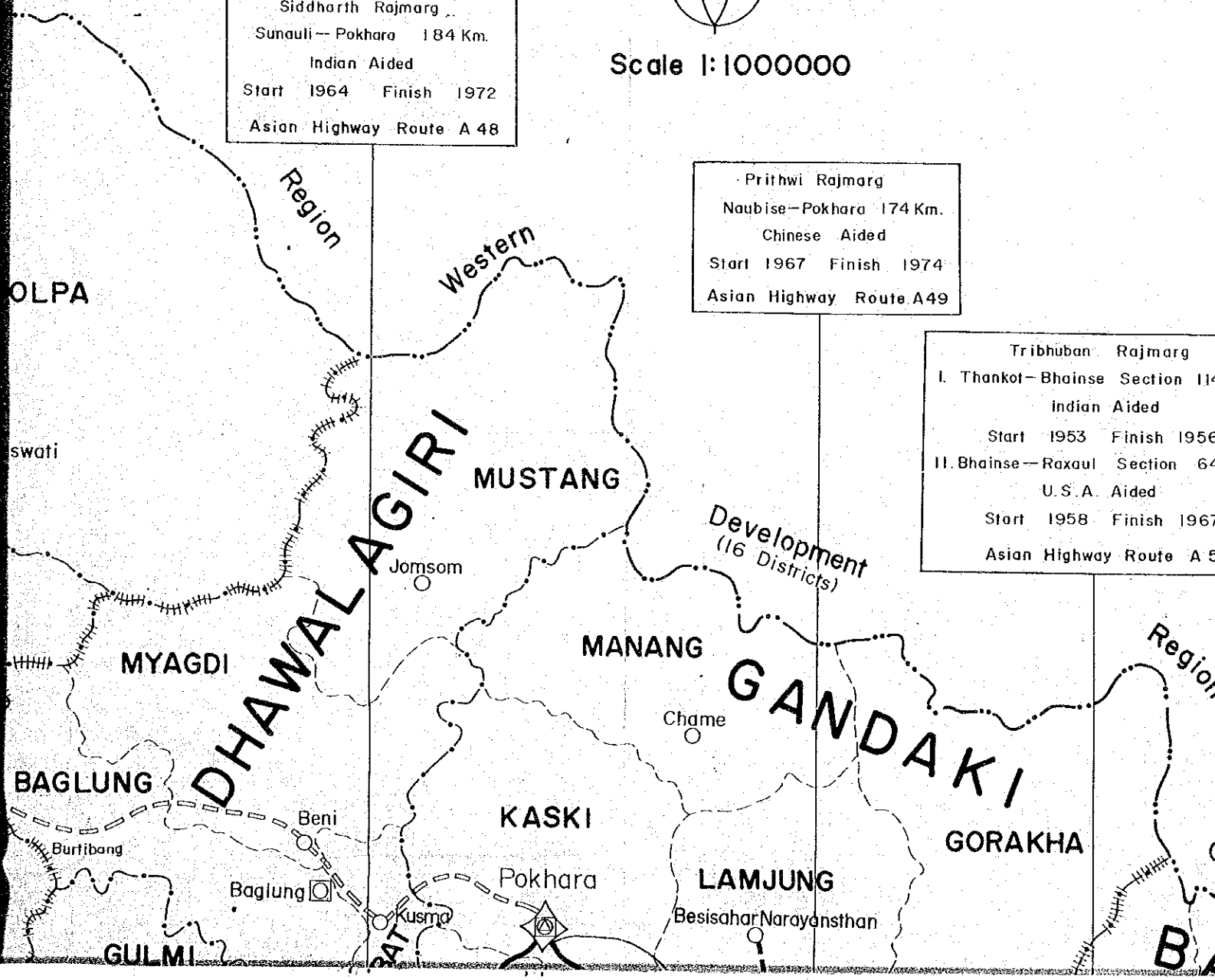
Dharan—Dhankuta Rajmarg 51 Km.

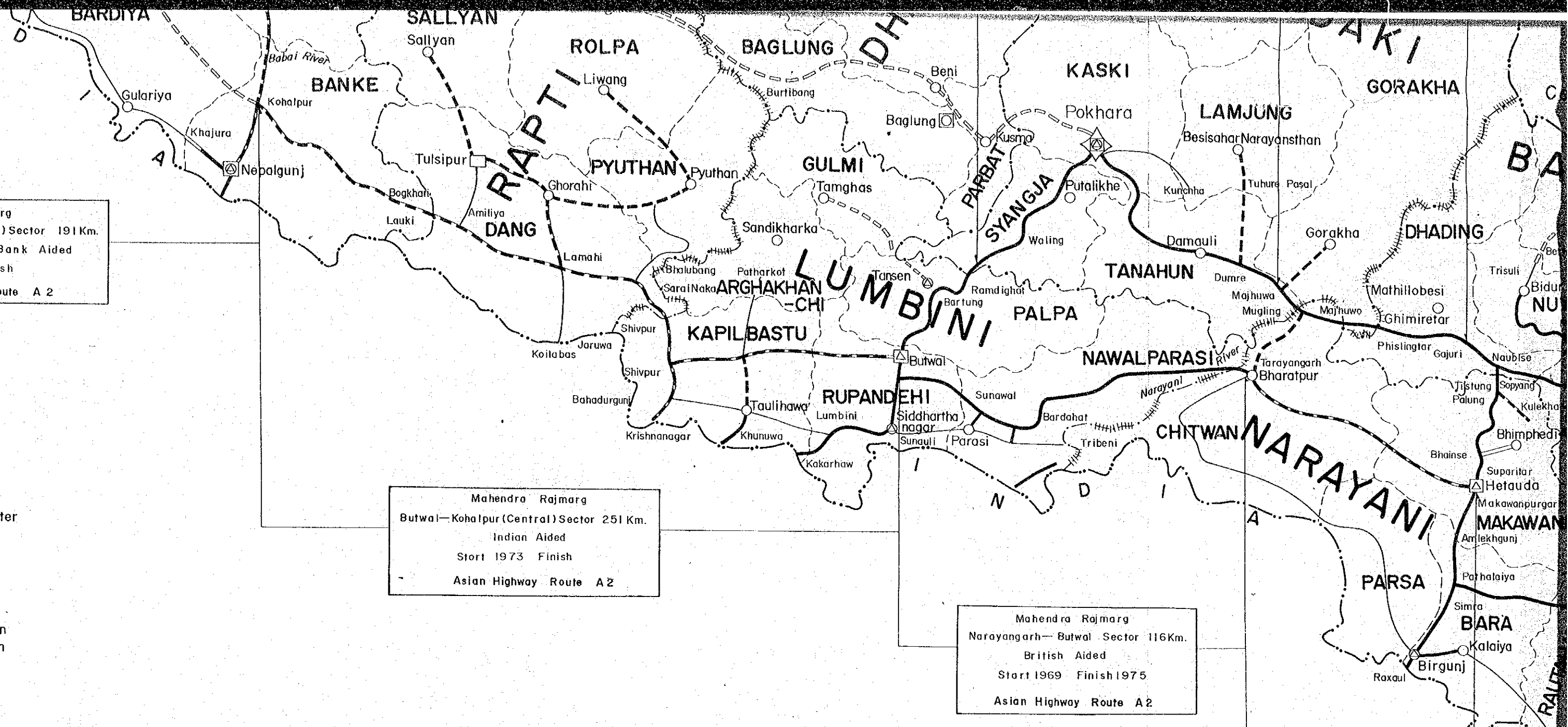
Kathmandu, Bhaktapur & Lalitpur Districts

Scale 1:250000



- 1 Asan
- 2 Kathmandu
- 3 Kotesore
- 4 Jawalakhel
- 5 Dillibazar
- 6 Narayanhity
- 7 Pasupatinath
- 8 Banesore
- 9 Buddha
- 10 Mangalbazar
- 11 Swayambhu
- 12 Singhadarbar





Mahendra Rajmarg
Kohalpur-Banbasa (Western) Sector 191 Km.
Saudi Arabia & World Bank Aided
Start 1973 Finish
Asian Highway Route A 2

Mahendra Rajmarg
Butwal-Kohalpur (Central) Sector 251 Km.
Indian Aided
Start 1973 Finish
Asian Highway Route A 2

Mahendra Rajmarg
Narayanganr-Butwal Sector 116 Km.
British Aided
Start 1969 Finish 1975
Asian Highway Route A 2

Mahendra Rajmarg
Hetauda-Narayanganr Sector 80 Km.
A. D. B. Loan
Start 1973 Finish
Asian Highway Route A 2

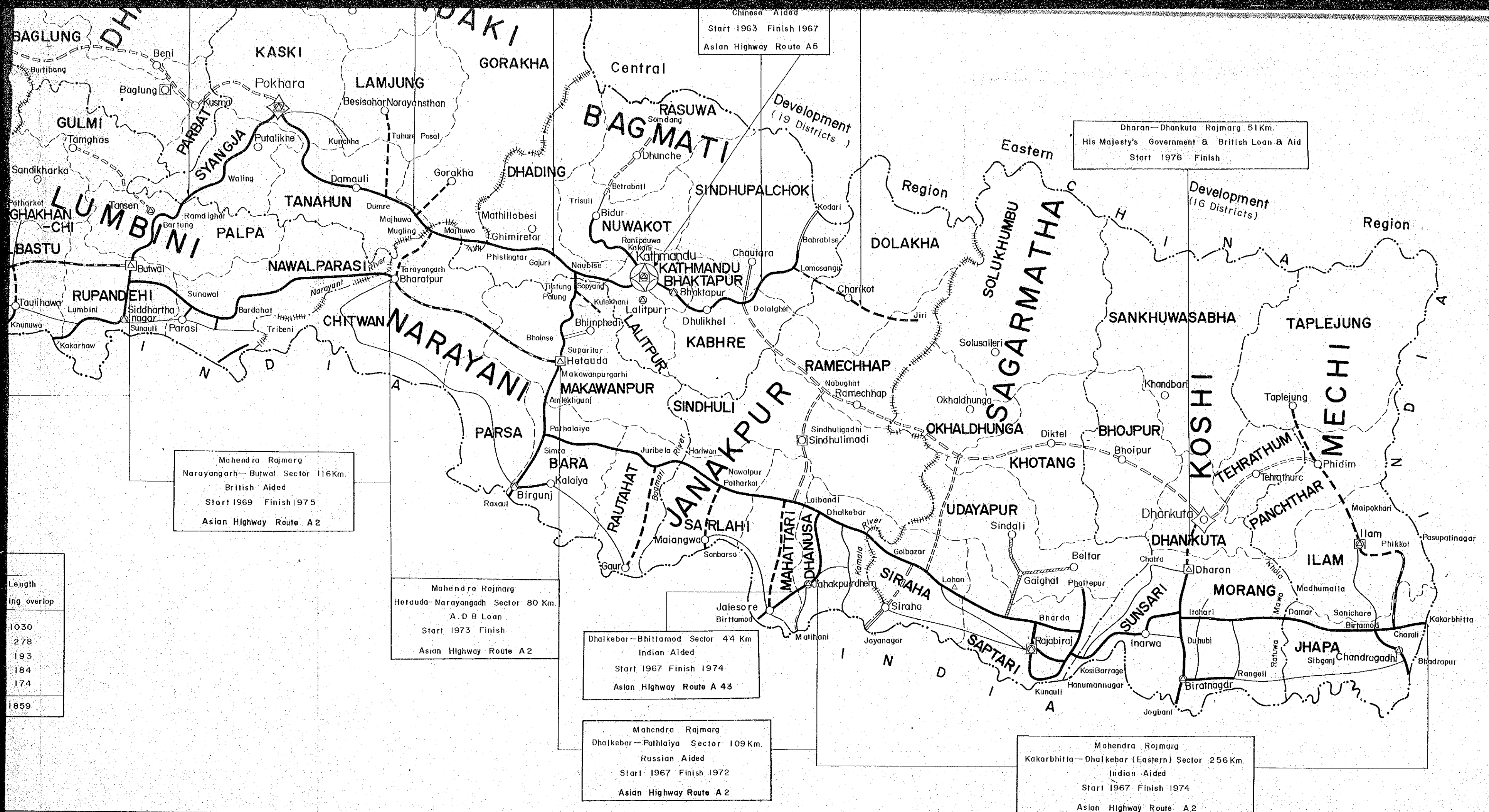
Legend

- International Boundary
- Development Region Boundary
- Zonal Boundary
- District Boundary
- Capital, Development Centre
- Zonal Head-quarter, District Head-quarter
- Town Panchayat, Place
- Metalled Road
- Gravelled Road
- Earthen Road
- Road Under Construction
- Road-Earthen and Under Construction
- Road-Gravelled and Under Constuction
- Planned Road
- Road Earthen and Planned
- Road-Gravilled and Planned
- Proposed Road
- Proposed Road for Udayapur Cement Project

Route	Gross Length Km.	Overlapping			Net Length (deducting overlop)
		Section	Route	Length	
A-2	1030	—	—	—	1030
A-5	304	Pathalya - Hetauda	A-2	26	278
A-43	249	Kathmandu - Dolalghat	A-5	56	193
A-48	184	—	—	—	184
A-49	200	Kathmandu - Naubise	A-5	26	174
Total	1967			108	1859

NOTE

Origin of this map is
Department of Roads of
Nepal government. (Dated 77/12/75)
JAPAN INTERNATIONAL COOPERATION
AGENCY traced the original
map and added the proposed
roads for the Udayapur cement project.



Chinese Aided
Start 1963 Finish 1967
Asian Highway Route A5

Dharan—Dhankuta Rajmarg 51Km.
His Majesty's Government & British Loan & Aid
Start 1976 Finish

Mahendra Rajmarg
Narayangarh—Butwal Sector 116Km.
British Aided
Start 1969 Finish 1975
Asian Highway Route A2

Mahendra Rajmarg
Hetauda—Narayangarh Sector 80 Km.
A. D. B. Loan
Start 1973 Finish
Asian Highway Route A2

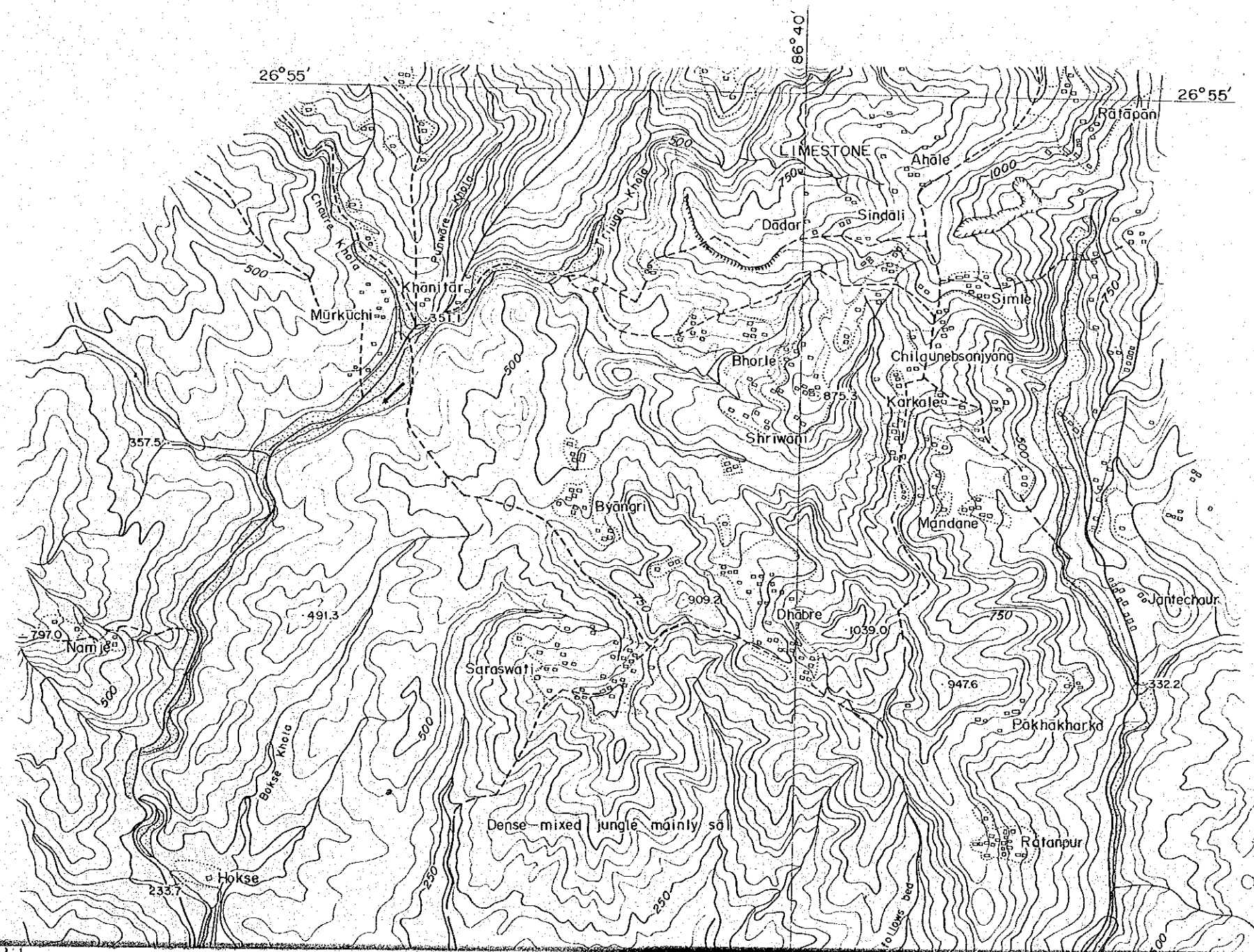
Dhaikebar—Birtamod Sector 44 Km
Indian Aided
Start 1967 Finish 1974
Asian Highway Route A 43

Mahendra Rajmarg
Dhaikebar—Pahlaiya Sector 109 Km.
Russian Aided
Start 1967 Finish 1972
Asian Highway Route A 2

Mahendra Rajmarg
Kakarbhitta—Dhaikebar (Eastern) Sector 256 Km.
Indian Aided
Start 1967 Finish 1974
Asian Highway Route A 2

Length	1030
ing overlap	278
	193
	184
	174
	1859

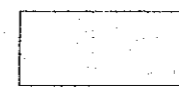
LOCATION MAP OF LIMESTONE, CLAY & SILICA SAND AND PROPOSED PLANT SITE

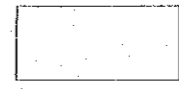


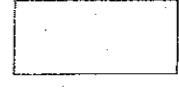
E, CLAY & SILICA SAND AND PROPOSED PLANT SITE OF UDAIPUR CEMENT PROJECT

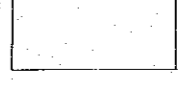
C-02

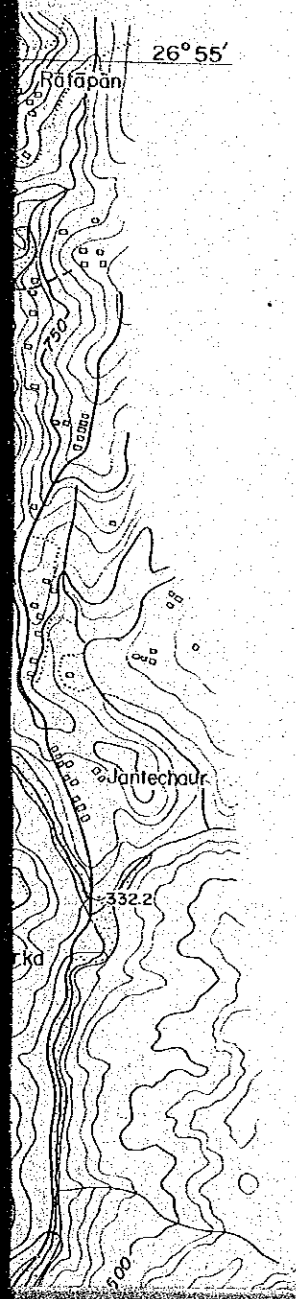
LEGEND

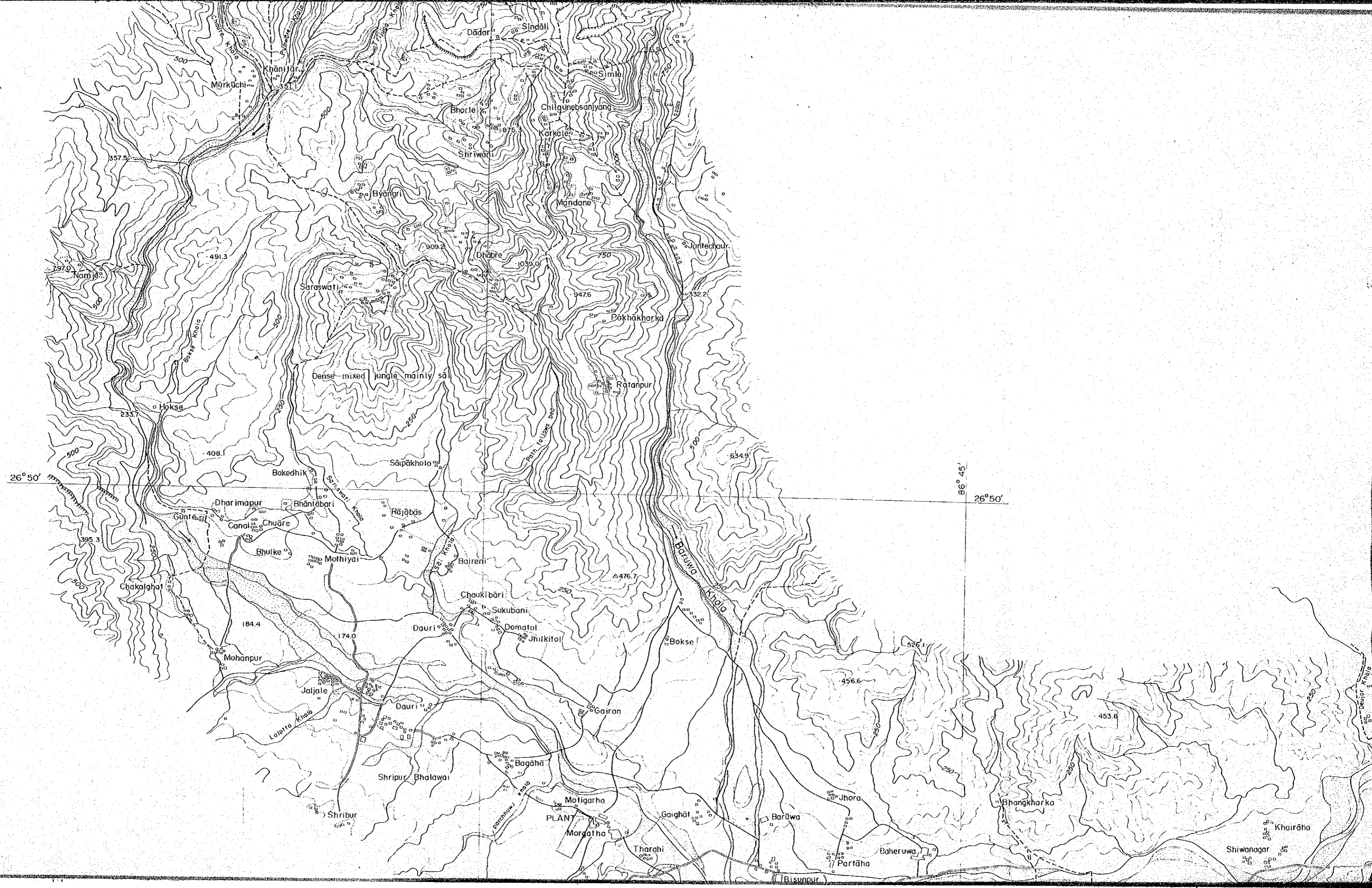
 Limestone Deposit

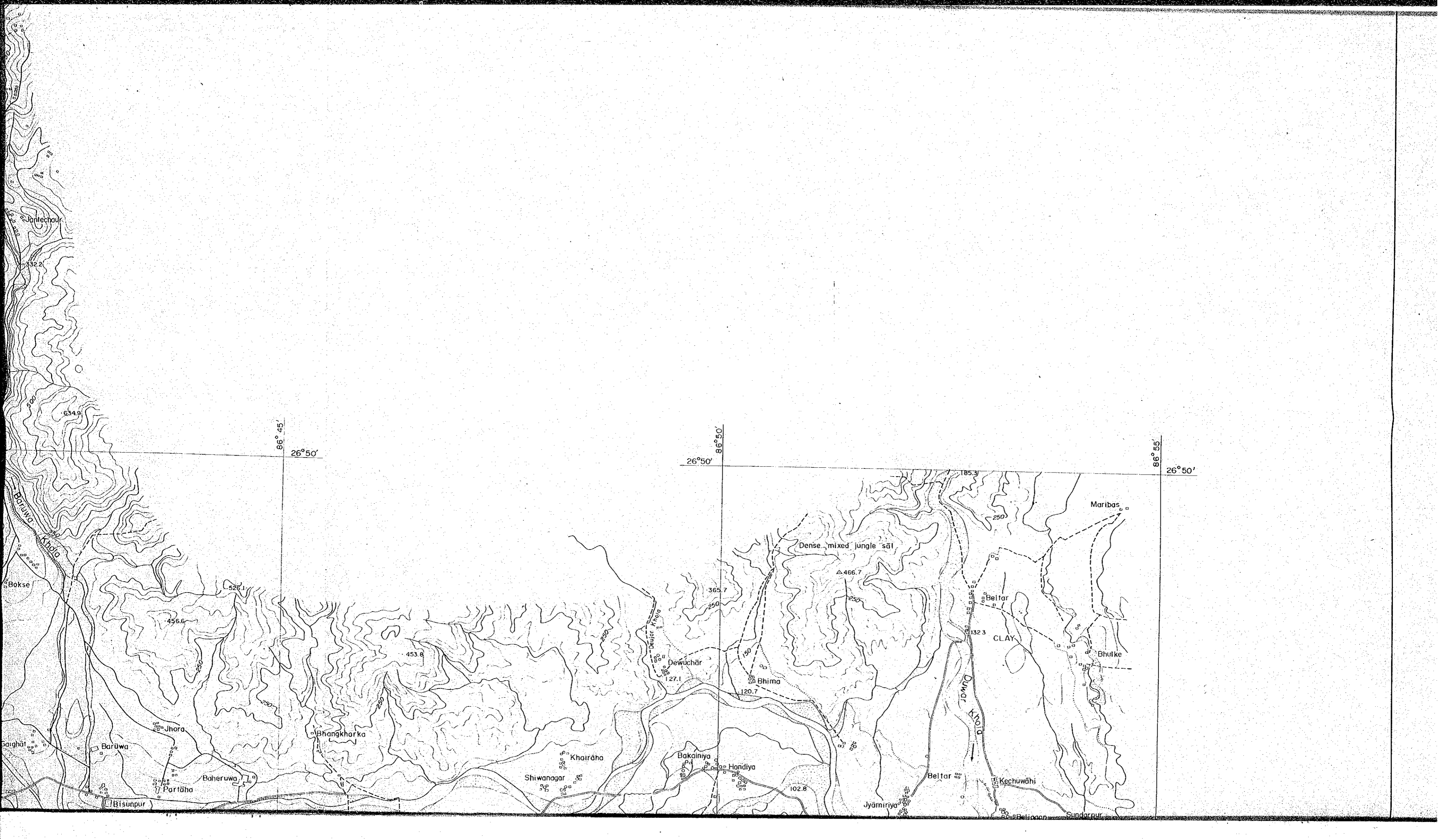
 Clay Deposit

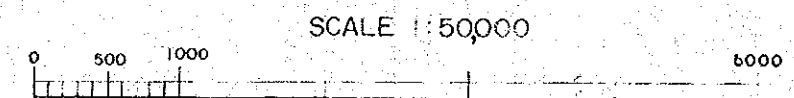
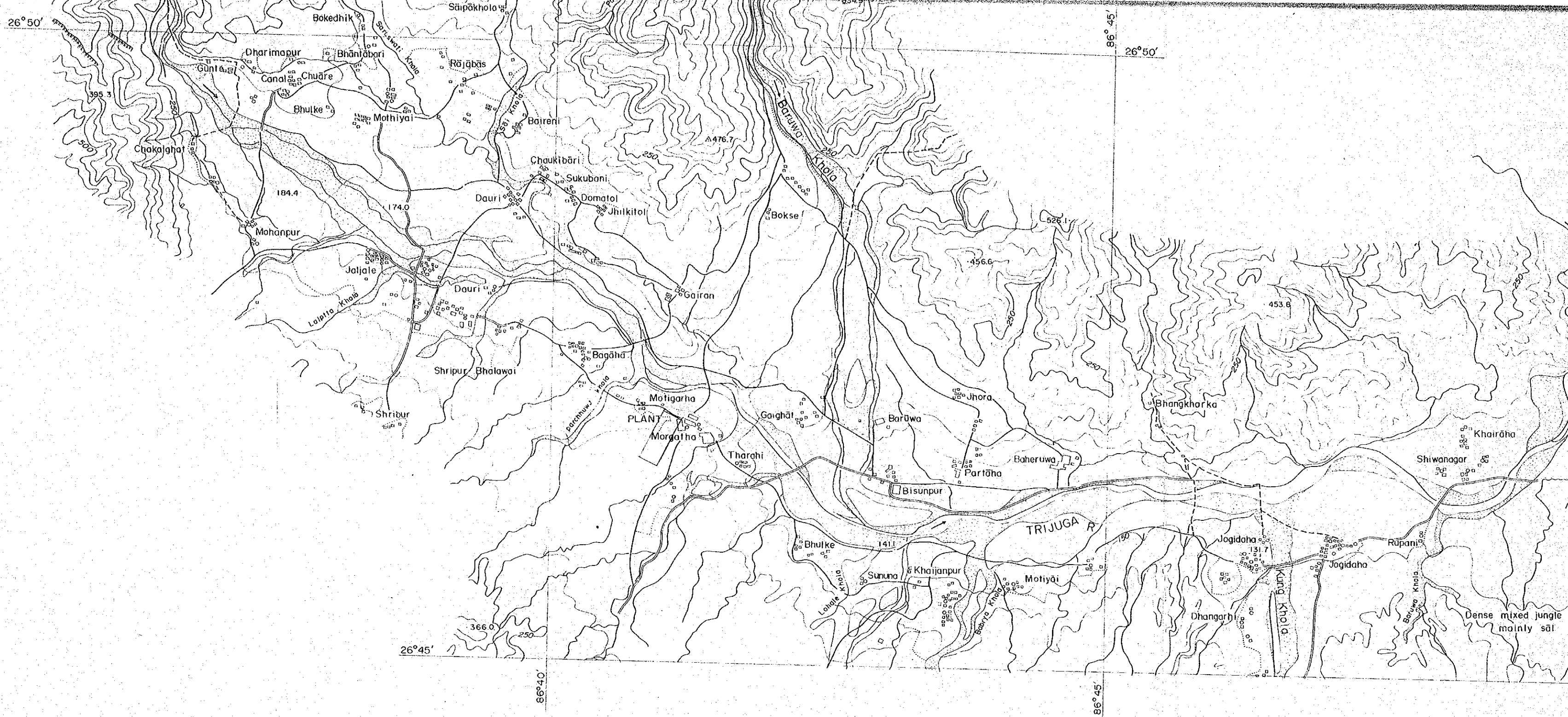
 Silica Sand Deposit

 Proposed Plant Site

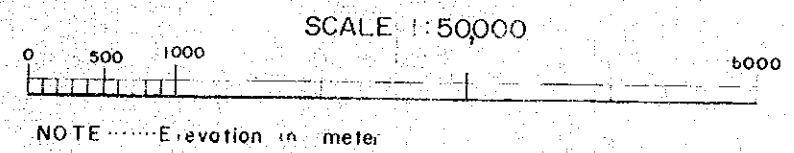
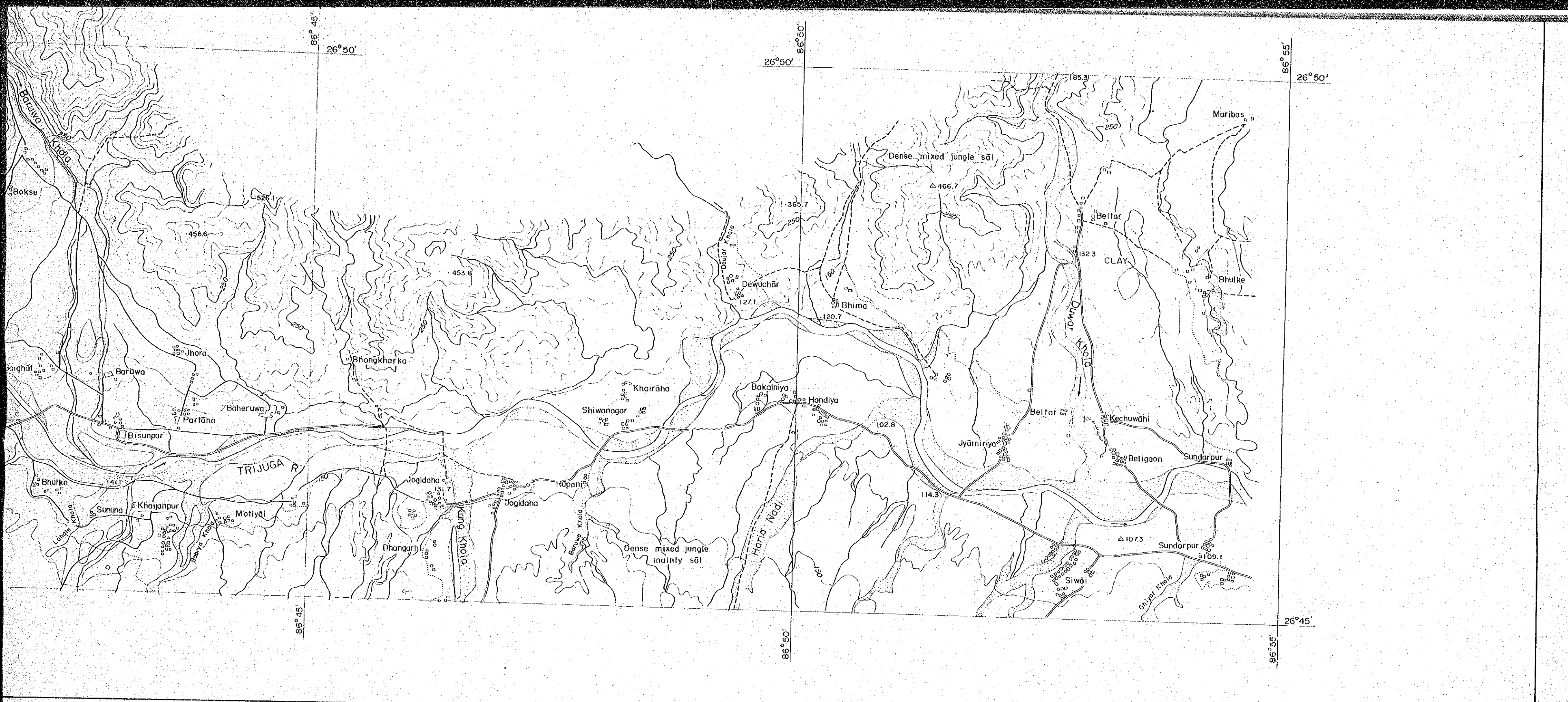






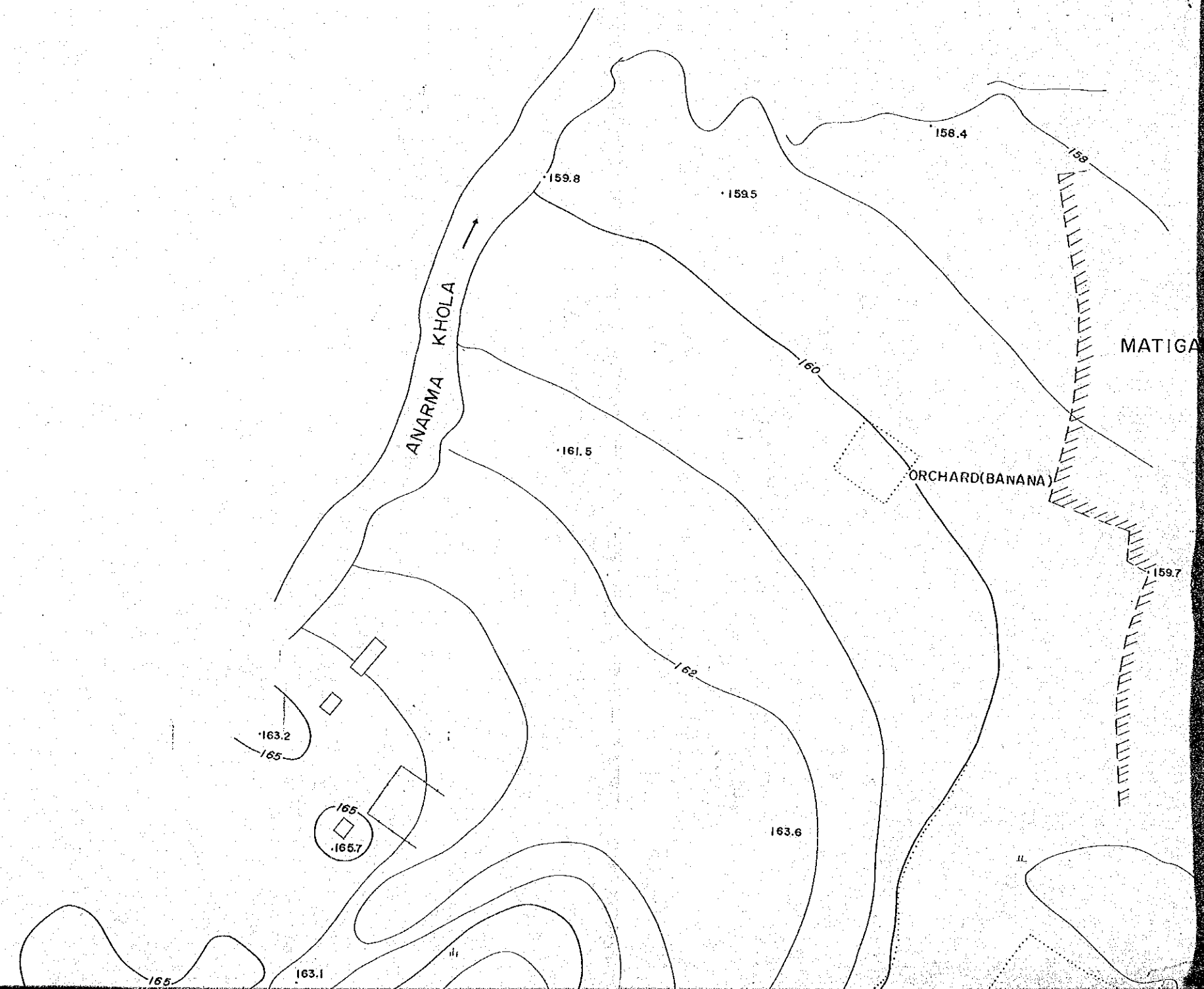


NOTE Elevation in meter



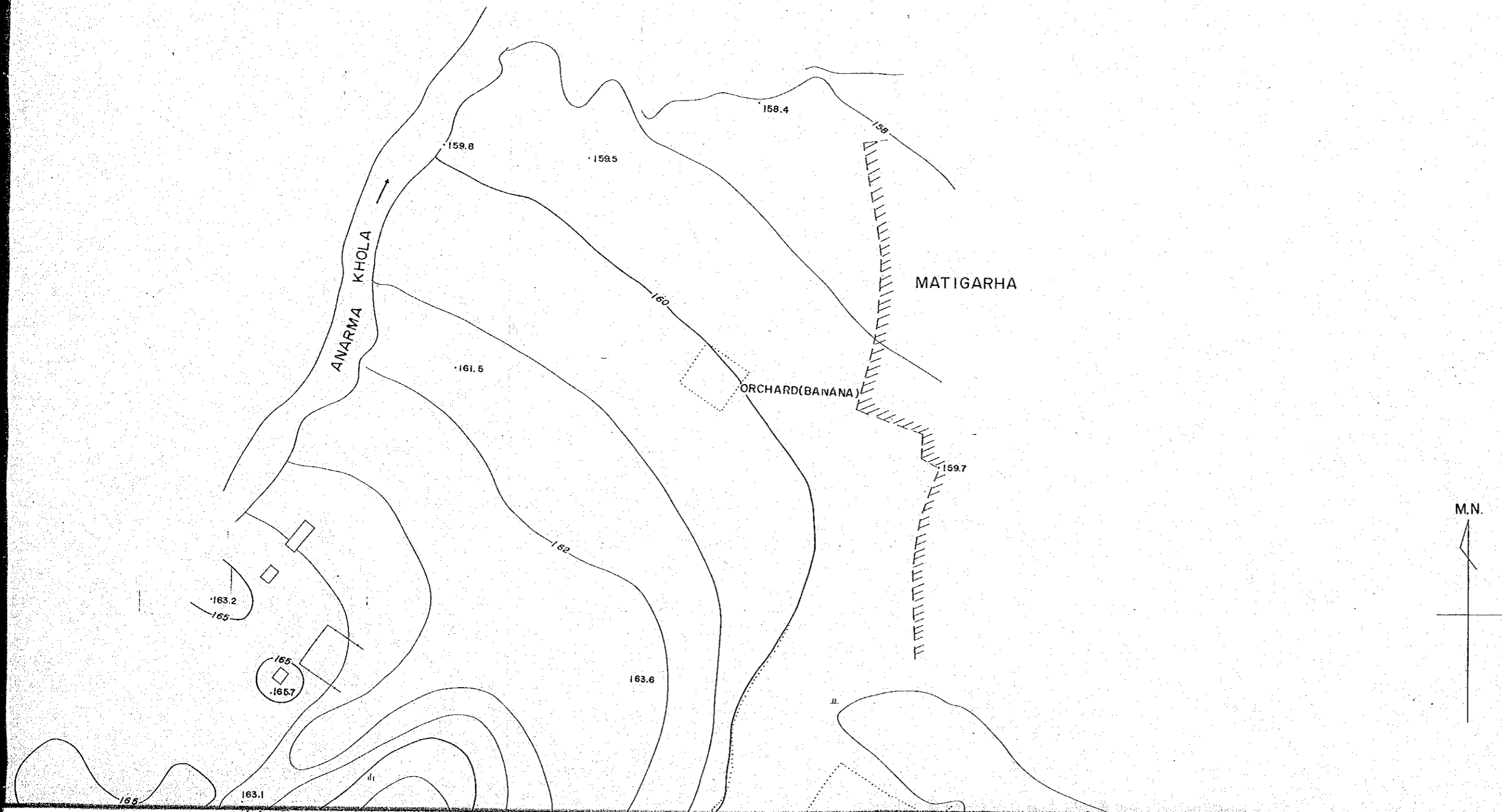
JAPAN INTERNATIONAL COOPERATION AGENCY

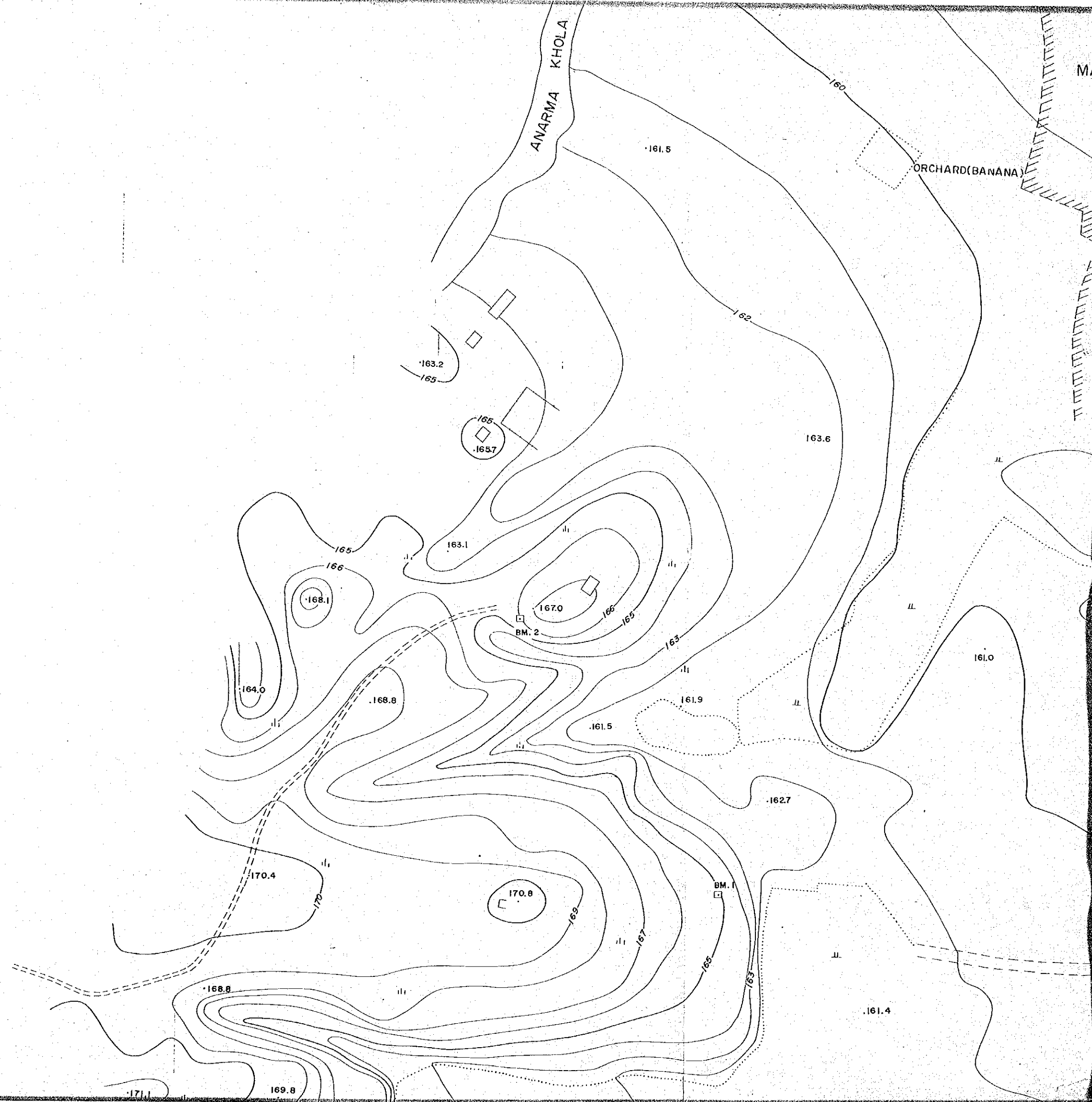
TOPOGRAPHIC MAP OF PROPOSED PLANT SITE OF UDA

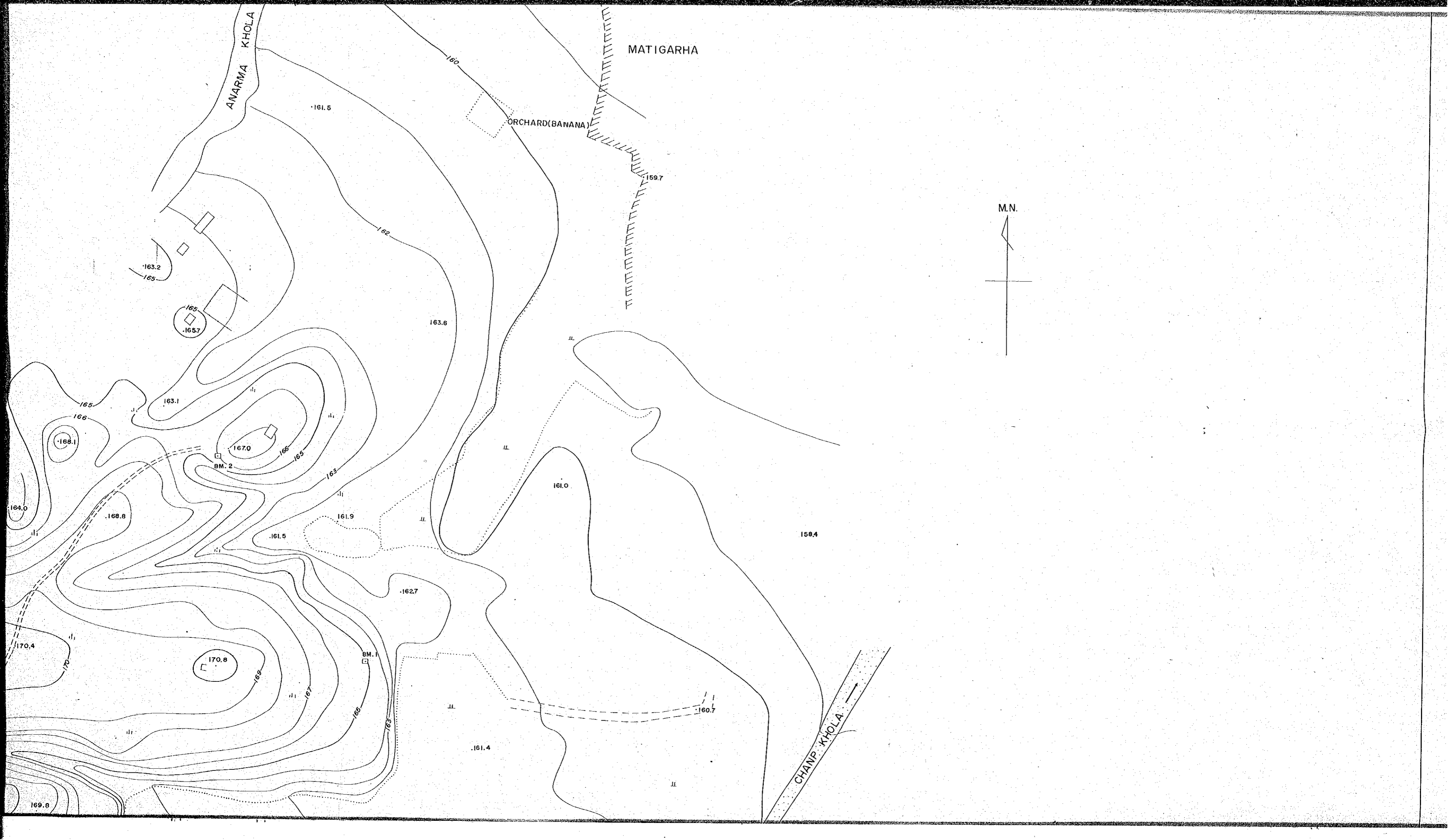


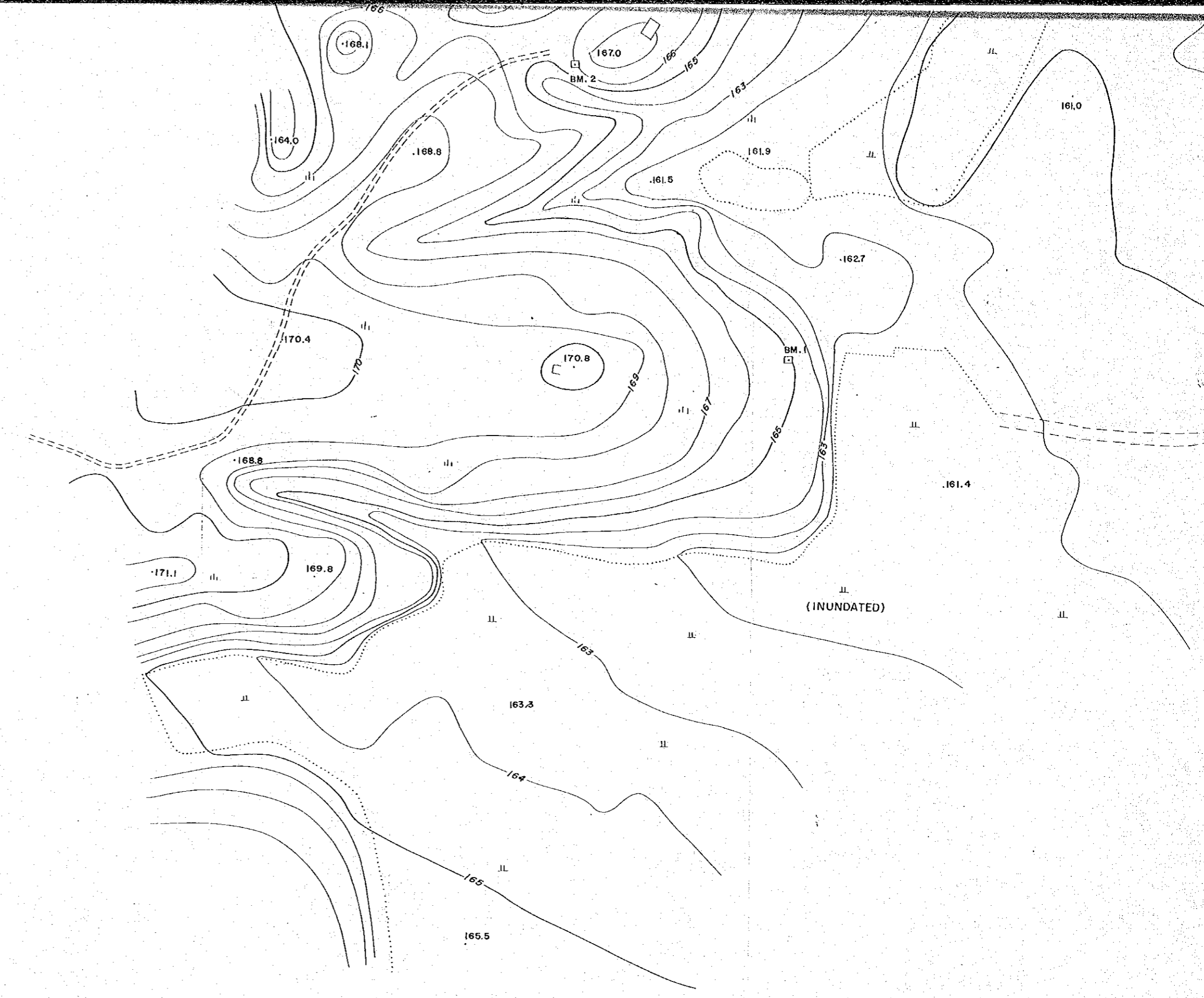
MAP OF PROPOSED PLANT SITE OF UDAIPUR CEMENT PROJECT

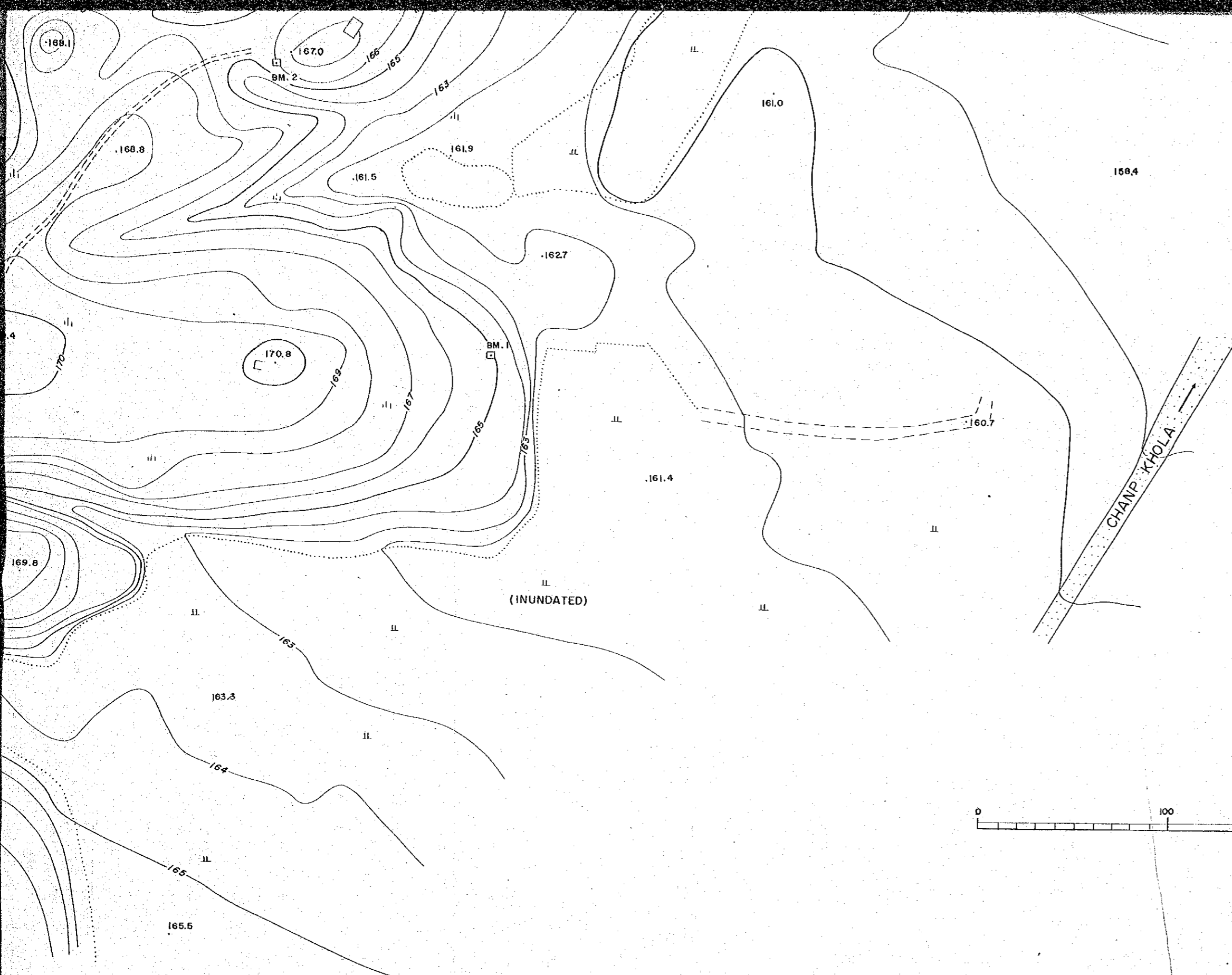
C-03



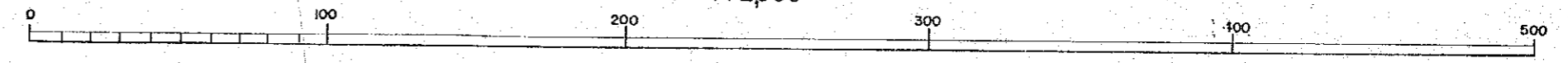








SCALE 1:2000



- NOTE
1. Elevations shown here are not referred to the sea water level but nearly equal to the altitudes from the sea level
 2. Contour lines are approximate

JAPAN INTERNATIONAL COOPERATION AGENCY

NOTES/REVISION

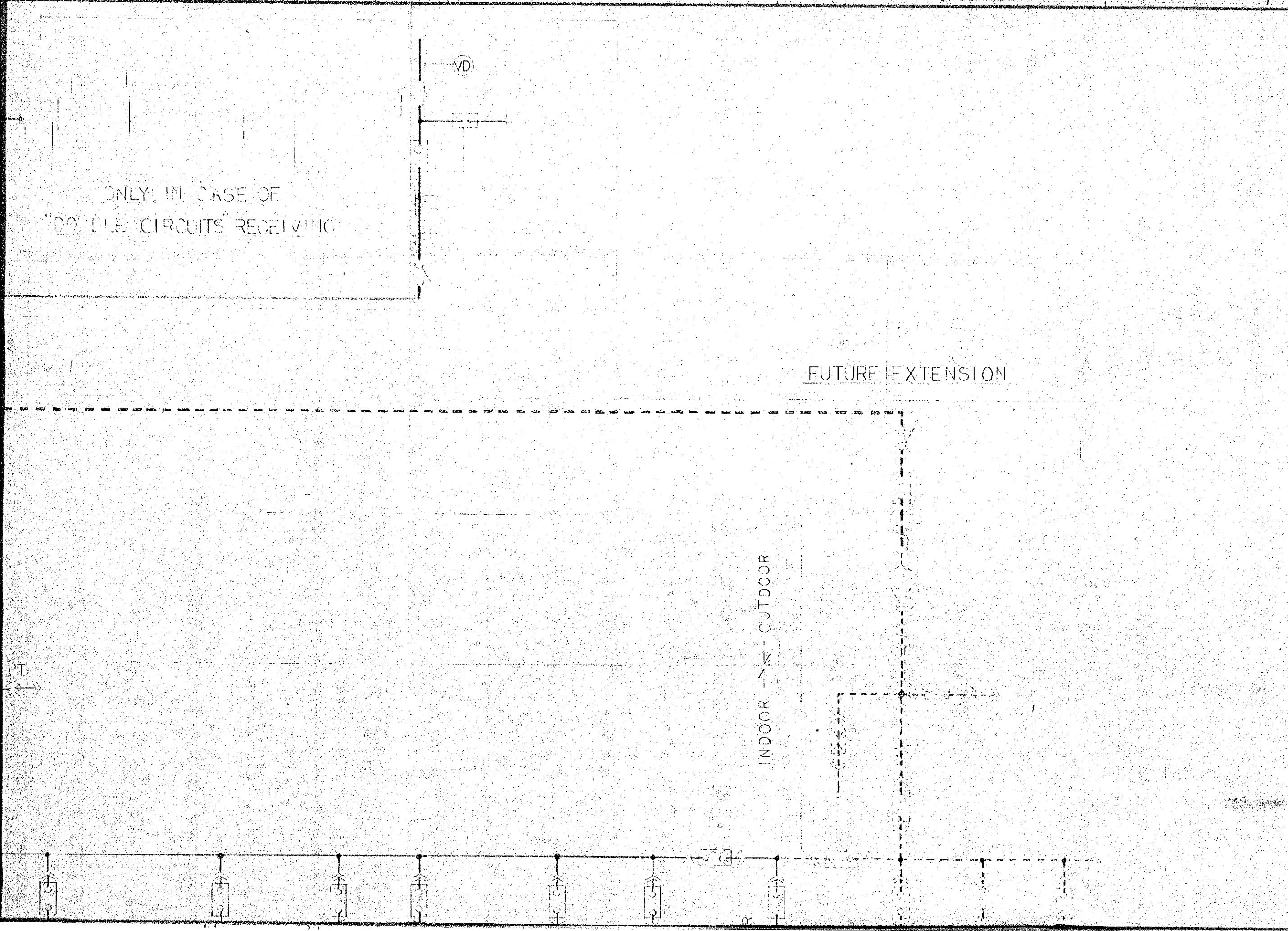
ONLY IN CASE OF
"DOUBLE CIRCUITS" RECEIVING

FUTURE EXTENSION

INDOOR / OUTDOOR

SYMBOLS & ABBREVIATIONS

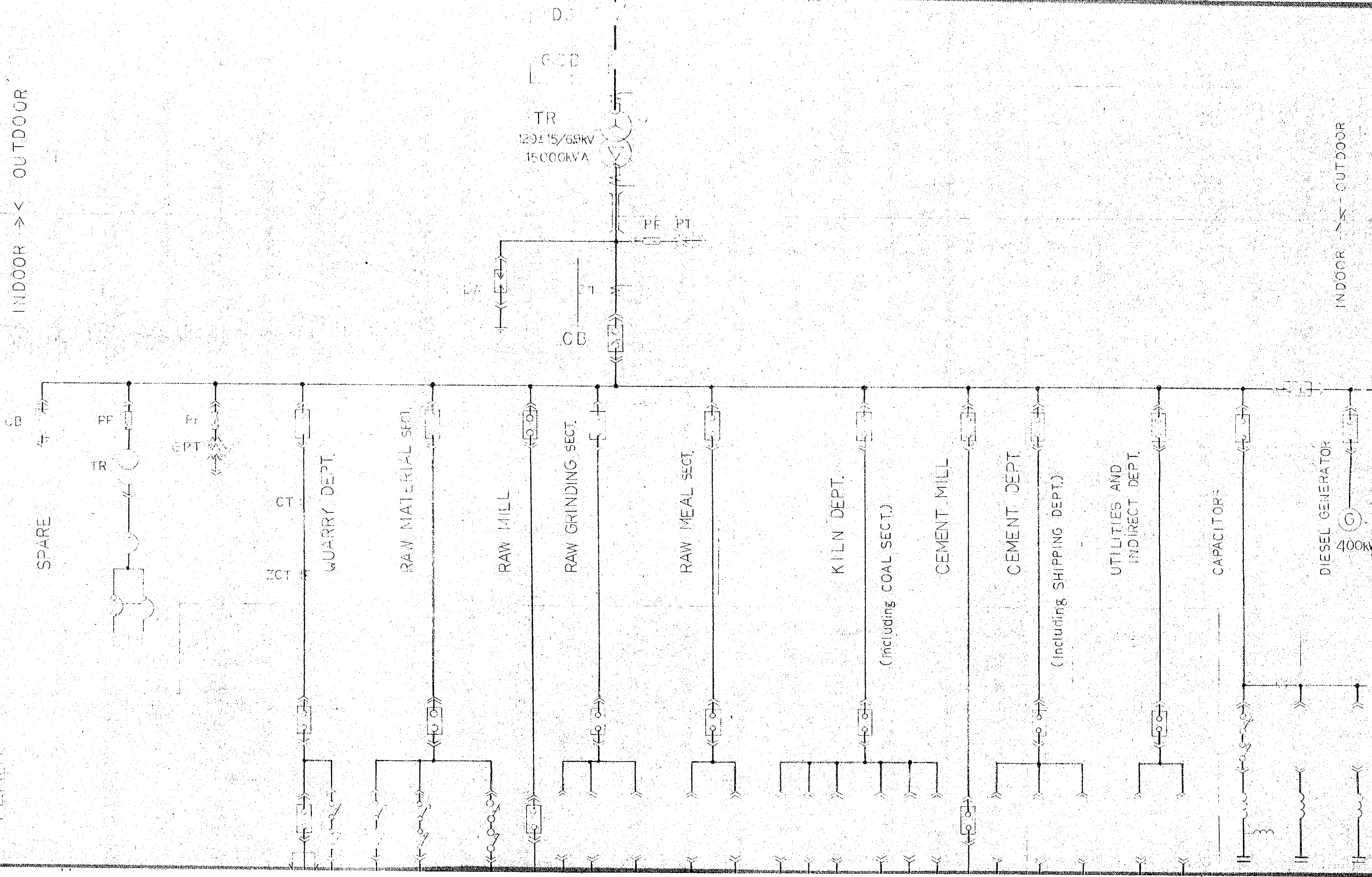
	VOLTAGE DETECTOR
	DS DS WITH GROUNDING DEVICE
	LA LIGHTNING ARRESTER
	CB CIRCUIT BREAKER
	GCB GAS CIRCUIT BREAKER
	CT CURRENT TRANSFORMER
	DS DISCONNECTING SWITCH (ISOLATOR)
	PD POTENTIAL DEVICE
	TR TR WITH ON-LOAD TAP CHANGER
	PF POWER FUSE
	DRAW-OUT TYPE SWITCHGEAR
	UNIT OF MCC
	H.V. COMBINATION STARTER
	TR POWER TRANSFORMER
	NFB NO-FUSE BREAKER
	ACB AIR CIRCUIT BREAKER
	CONTROLLER FOR DC MOTOR
	H.V. MOTOR
	L.V. MOTOR
	DC MOTOR FOR KILN DRIVE
	DIESEL GENERATOR



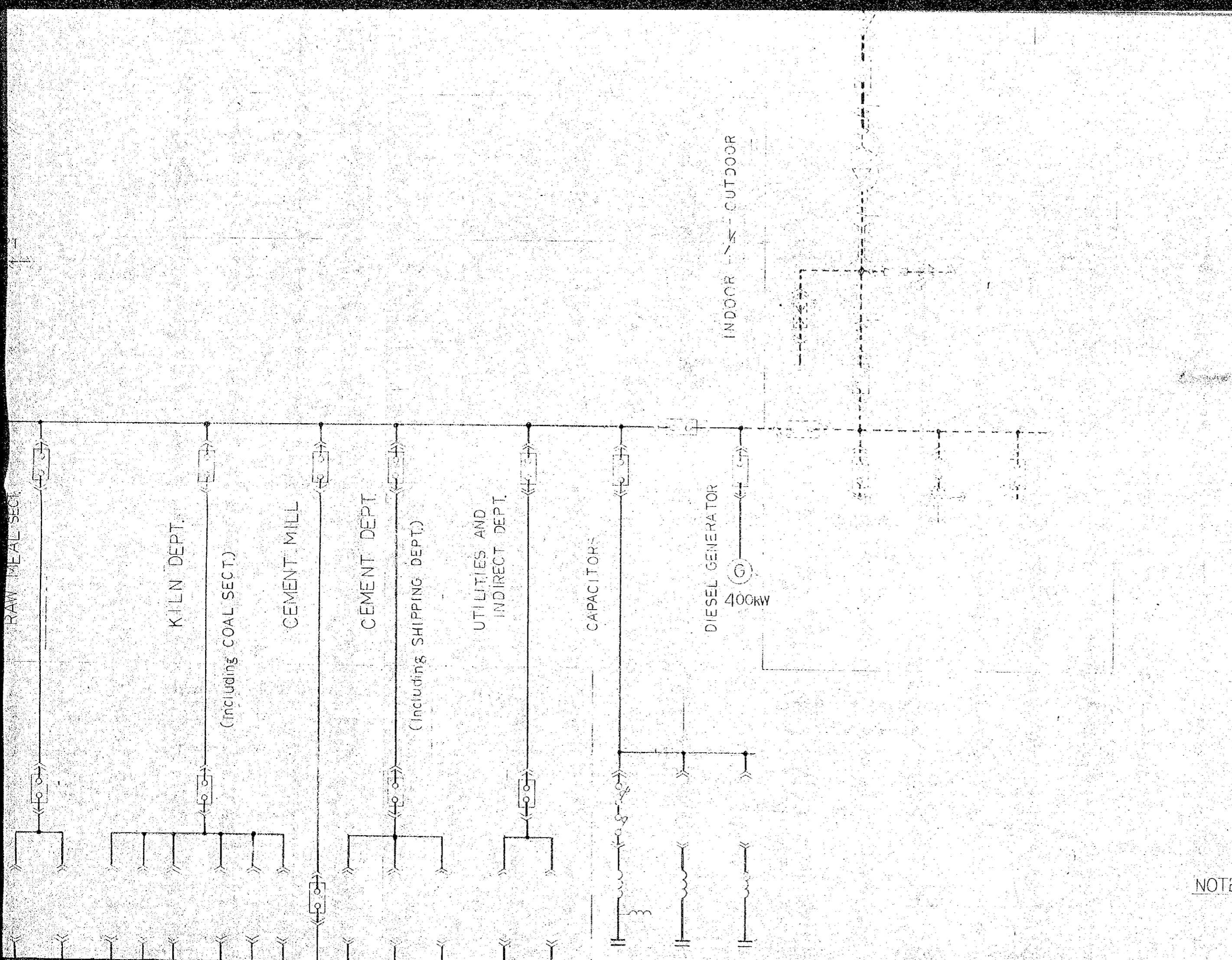
CEMENT PLANT

MAIN POWER DISTRIBUTION SUBSTATION

INDOOR << OUTDOOR

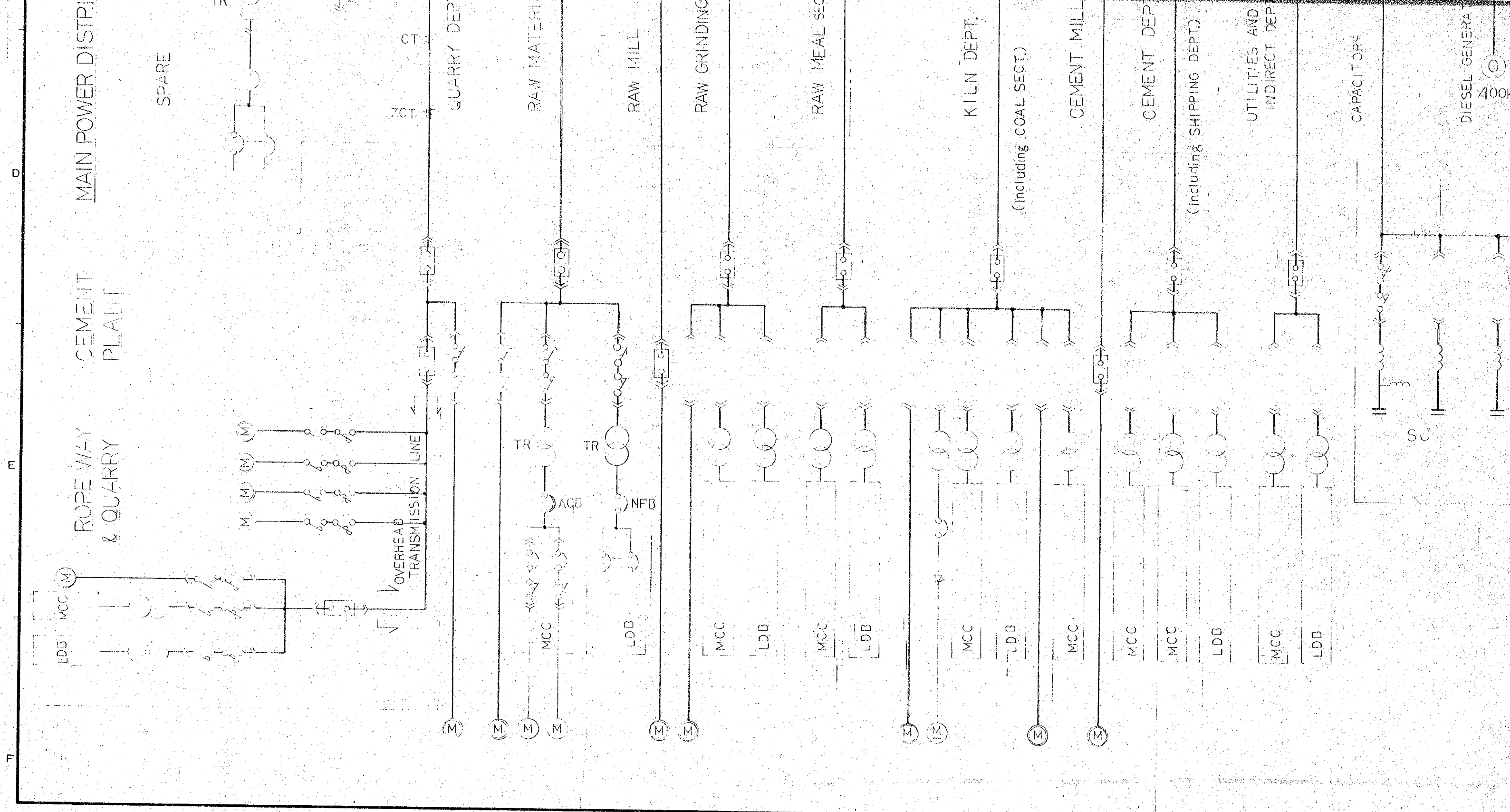


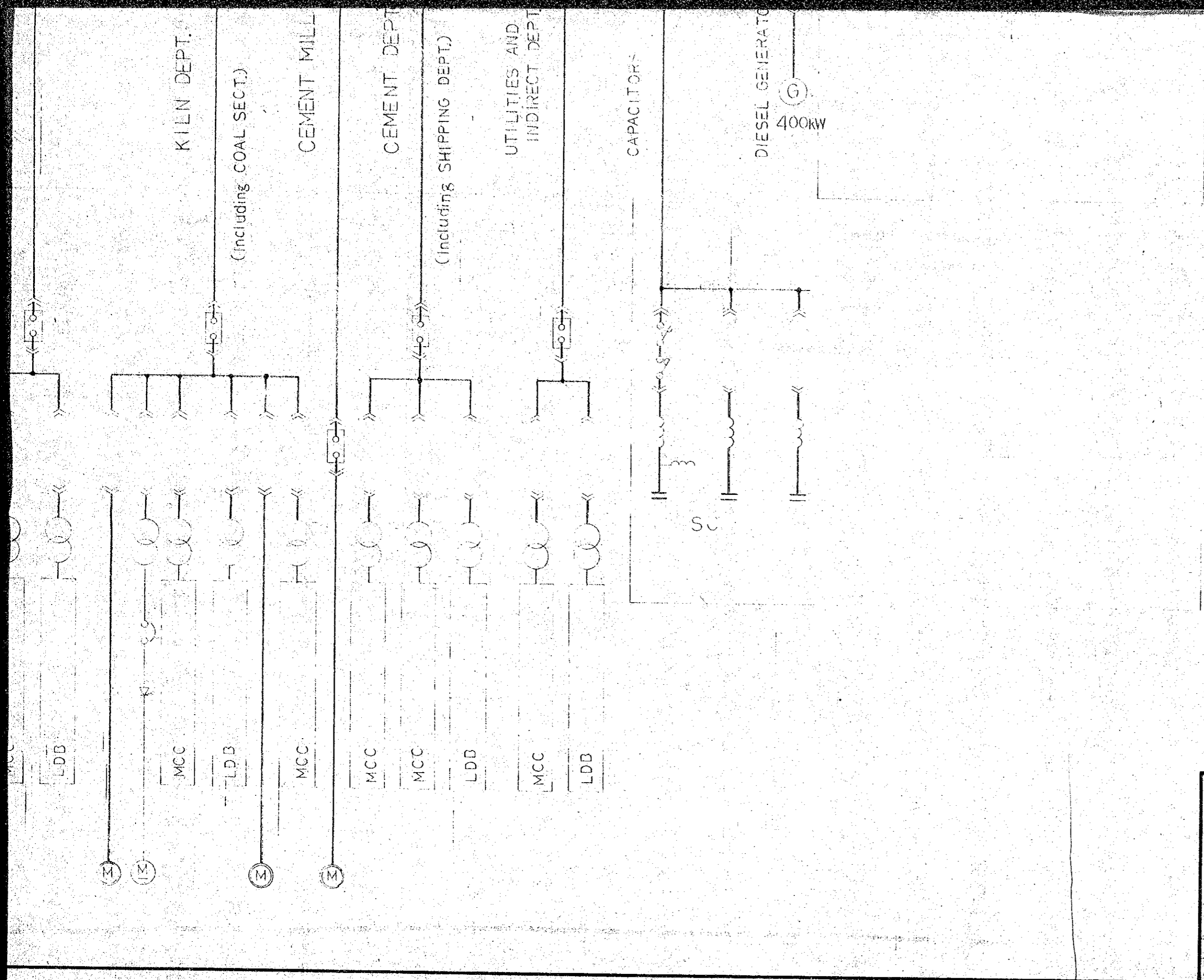
INDOOR << OUTDOOR



	CT	CURRENT TRANSFORMER
	DS	DISCONNECTING SWITCH (ISOLATOR)
	PD	POTENTIAL DEVICE
	TR	TR WITH ON-LOAD TAP CHANGER
	PF	POWER FUSE
		DRAW-OUT TYPE SWITCHGEAR
		UNIT OF MCC
		H.V. COMBINATION STARTER
	TR	POWER TRANSFORMER
	NFB	NO-FUSE BREAKER
	ACB	AIR CIRCUIT BREAKER
		CONTROLLER FOR DC MOTOR
	(M)	H.V. MOTOR
	(M)	L.V. MOTOR
	(M)	DC MOTOR FOR KILN DRIVE
	(G)	DIESEL GENERATOR
	MOF	METERING OUTFIT
	MCC	MOTOR CONTROL CENTER
	L.D.P.	LIGHTING DISTRIBUTION PANEL
	P.T.	POTENTIAL TRANSFORMER
	G.P.T.	GROUND PT.
	Z.C.T.	ZERO PHASE CT
	SC	CAPACITOR FOR p.f. CORRECTION

NOTE: THIS DIAGRAM IS APPLICABLE TO THE CASE OF 1500 T/D PLANT. AS FOR OTHER CASES, REFER TO THE FIGURES AS FOLLOWS.





M OF	METERING OUTFIT
MCC	MOTOR CONTROL CENTER
LDB	LIGHTING DISTRIBUTION PANEL
PT	POTENTIAL TRANSFORMER
GPT	GROUND PT
ZCT	ZERO PHASE CT
SC	CAPACITOR FOR p.f. CORRECTION

NOTE: THIS DIAGRAM IS APPLICABLE TO THE CASE OF 1500 t/d PLANT. AS FOR OTHER CASES, REFER TO THE FIGURES AS FOLLOWS:

	1500 t/d	1000 t/d	750 t/d
CAPACITY OF TR	15000 KVA	12000 KVA	10000 KVA
CAP. OF GENERATOR	400 KW	300 KW	200 KW
NO. OF FEEDERS	10	8	8

JAPAN INTERNATIONAL COOPERATION AGENCY		OWNER / CODE NO.				
		UDAIPUR CEMENT PLANT PROJECT SINGLE-LINE DIAGRAM (1500 T/D)				
APPROVED	CHECKED	DESIGNED	SCALE	DATE	DWG. NO.	FILE NO.
<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>		4-1978	E-01	