

I/569540/2024

GOVERNMENT OF ASSAM
ENVIRONMENT AND FOREST DEPARTMENT
JANATA BHAWAN, DISPUR, GUWAHATI-6

eCF No.358347/116

Dated Dispur, the May, 2024

To : The Scientist-‘E’,
 Government of India,
 Ministry of Environment, Forest & Climate Change,
 Sub office, Guwahati,
 4th Floor, Housefed Building,
 G.S Road, Rukminigaon, Guwahati-781022

Sub : Proposal for diversion of 2.1249 ha forest land for
 construction 132 KV single circuit transmission line double circuit
 tower from 220 KV Salakati GSS to 132 KV APM GSS in Bhairab Hill
 PRF under Aie Valley Division, Bongaigaon by AEGCL -reg.

Ref : Government of India letter No. 3-AS B/220/2022/GHY/4834-35
 dated 10.11.2023.

Sir,

In inviting reference to your letter on the subject cited
 above, I am directed to furnish herewith the following additional
 information/document as sought vide letter under reference for favour
 of your kind information and necessary action: -

Govt. of India letter No. 3-AS B/220/2022/GHY/4834- 35 dated 10.11.2023	Information Provided
No. (1)	<p>The details of 3 alternate routes considered in the proposed transmission line are given below:</p> <ul style="list-style-type: none"> i. Route-I (42.767KM) forest length- 1.658 KM ii. Route-II (50.086KM)- forest length- 5 KM iii. Route-III (48.669 KM)- forest length- 13.480KM <p>The proposed route length (Route-I) falls inside forest under Aie Valley Division is 0.939 KM out of total 1.658 KM forest route length and “In principle Approval” has been granted for rest 0.719 Km under Haltugaon Division. All three routes passes through Bhairab Hill RF & Nakkati RF which have moist deciduous forest with almost 80% to 90% of forest density. Hence, shortest route chosen route by User Agency is justified</p>

I/569540/2024

	(Enclosed DFO letter dated 20.05.2024).
No. (2)	The User Agency (AEGCL) has submitted the Sol map indicating the 3-alternate route (copy enclosed).
No. (3)	The User Agency (AEGCL) has submitted the Right of Way of the proposed transmission line (copy enclosed).

Enclo : As stated above.

Yours faithfully,

Secretary to the Govt. of Assam
Environment and Forest Department

Memo eCF No.358347/116-A
Copy to:-

Dated Dispur, the May, 2024

The Principal Chief Conservator of Forests & HoFF, Assam (i/c),
Panjabari, Guwahati-37.

e-signed
Secretary to the Govt. of Assam
Environment and Forest Department

See (E&F)

GOVERNMENT OF ASSAM
OFFICE OF THE PRINCIPAL CHIEF CONSERVATOR OF FORESTS AND
HEAD OF FOREST FORCE, ASSAM
ARANYA BHAWAN, PANJABARI, GUWAHATI-37

Email: addlpccf.nodal@gmail.com

No. FG.27/FCA/Proposal/Salakati Trans Line/AEGCL

Dated 20.05.2024

To,

The Special Chief Secretary to the Government of Assam,
Environment and Forest Department, Dispur, Guwahati-6.

Sub: Proposal for diversion of 2.1249 Ha. of forest land for construction of 132 KV single circuit transmission line double circuit tower from 220 KV Salakati GSS to 132 KV APM GSS in Bhairab Hill PRF under Aie Valley Division, Bongaigaon by AEGCL-reg.

Ref: Government of India letter No. 3-AS B/220/2022/GHY/4834-35 dated 10.11.2023.

Sir,

With reference to the above, I am submitting herewith the information/documents as sought by the Government of India, MoEF & CC, Sub Office, Guwahati vide their letter No. 3-AS B/220/2022/GHY/4834-35 dated 10.11.2023 as under-

Govt. of India letter No. 3-AS B/220/2022/GHY/4834-35 dated 10.11.2023	Information Provided
No. (1)	<p>The details of 3 alternate routes considered in the proposed transmission line are given below:</p> <ul style="list-style-type: none">(i) Route-I (42.767KM) forest length- 1.658 KM(ii) Route-II (50.086KM)- forest length-5 KM(iii) Route -III (48.669 KM)- forest length- 13.480KM <p>The proposed route length (Route-I) falls inside forest under Aie Valley Division is 0.939 KM out of total 1.658 KM forest route length and "In principle Approval" has been granted for rest 0.719 Km under Haltugaon Division. All three routes passes through Bhairab Hill RF& Nakkati RF which have moist deciduous forest with almost 80% to 90 % of forest density. Hence, shortest route chosen route by User Agency is justified (Enclosed DFO letter dated 20.05.2024).</p>
No. (2)	The User Agency (AEGCL) has submitted the Sol map indicating the 3-alternate route (copy enclosed).
No. (3)	The User Agency (AEGCL) has submitted the Right of Way of the proposed transmission line (copy enclosed).

The above-mentioned information may kindly be sent to the Government of India, MoEF&CC, Sub Office, Guwahati (Under Regional Office, Shillong), Guwahati accordingly.

Encl: As stated above.

Yours faithfully,

(Dr. C Muthukumaravel, IFS)

Chief Conservator of Forests &
Nodal Officer (FC Act), Assam

O/o the Principal Chief Conservator of Forests and
Head of Forest Force, Assam

Office of the Secretary
to the Govt. of Assam
Environment and Forest Deptt.
DIARY No. 196
Date 28/05/2024

Copy to: -

1. The Chief Conservator of Forests, Lower Assam Social Forestry Circle, Bongaigaon for kind information.
2. The Divisional Forest Officer, Aie Valley Division, Bongaigaon for information.
3. The Asstt. General Manager, Assam Electricity Grid Corporation Ltd., 132 KV Grid Substation, Dhaligaon, Chirang-783385 for information.

Chief Conservator of Forests &
Nodal Officer (FC Act), Assam
O/o the Principal Chief Conservator of Forests and
Head of Forest Force, Assam



GOVT. OF ASSAM

OFFICE OF THE DIVISIONAL FOREST OFFICER:::AIE VALLEY DIVISION
BONGAIGAON.

No. A/AVD/132KV/2023/ 1035-36
To,

E-mail- dfo.taievalley@gmail.com

Date: 20/05/24

The Chief Conservator of Forests &
Nodal Officer (FC Act), Assam
O/o the Principal Chief Conservator of Forests &
Head of Forest Force, Assam

Sub: Proposal for diversion of 2.1249 ha of Forest land for construction of 132 KV
single circuit transmission line double circuit tower from 220 KV Salakati GSS
to 132 KV PAM GSS in Bhairab Hill RF under Aie Valley Division, Bongaigaon
by AEGCL.

Ref: This Office letter No. A/AVD/132KV/2023/893-94, dtd. 25.04.2024

Sir,

In continuation of the reference mentioned above, undersigned wish to submit that there 3(three) alternate routs were proposed for the transmission line under Dhaligaon Division of AEGCL, out of these 3(three) routes, the shortest route i.e. Route-I(42.76 km) was finally chosen. All these 3(three) routes passes through Bhairab Hill RF & Nakkati RF of this Division, which have moist deciduous forest with almost similar kind of flora & fauna. The density of these Reserved Forest through which these 3(three) alternate routs are proposed is 80-90%+. So, the shortage rout chosen by the User Agency is justified.

Moreover not only this is the shortest rout but also covers shortest distance under Reserved Forest area i.e. 0.939 km under Bhairab Hill RF. So, the finally chosen rout also covers minimum forest disturbance, hence, minimum ecological disturbance.

The SOI Map and right of way of the proposed transmission line is being submitted by the User Agency which is communicated to your good office vide this office letter quoted under reference.

Yours faithfully

Divisional Forest Officer
Aie Valley Division
Bongaigaon

Copy to the Conservator of Forests, Lower Assam Social Forestry Circle, Bongaigaon
for favour of his kind information and necessary action.

Divisional Forest Officer
Aie Valley Division
Bongaigaon

Date: 20/05/24

No.B/AVD/132KV/2023/ 2446

Copy to the Asstt. General Manager, 132 KV Grid Substation Division, AEGCL, Dhaligaon for
information.



GOVT.OF ASSAM
OFFICE OF THE DIVISIONAL FOREST OFFICER:::AIE VALLEY DIVISION
BONGAIGAON.

E-mail- dfo.t.aievalley@gmail.com

Date: 25/04/24

No. A/AVD/132KV/2023/ 893-94

To,

✓ The Chief Conservator of Forests &
Nodal Officer (FC Act), Assam
O/o the Principal Chief Conservator of Forests &
Head of Forest Force, Assam

Sub: Proposal for diversion of 2.1249 ha of Forest land for construction of 132 KV single circuit transmission line double circuit tower from 220 KV Salakati GSS to 132 KV PAM GSS in Bhairab Hill RF under Aie Valley Division, Bongaigaon by AEGCL.

Ref: Your letter Nos.

- (i) FG.27/FCA/Proposal/Salakati Trans Line/AEGCL, dtd. 27.02.24
- (ii) FG.27/FCA/Proposal/Salakati Trans Line/AEGCL, dtd. 17.11.23

Sir,

With reference to the subject cited above, undersigned wish to resubmit herewith the point wise reply as sought from the Asstt. General Manager, 132 KV Grid Substation Division, AEGCL, Dhaligaon vide his office letter No. AEGCL/AGM/DLG/T-60/2024/241, dtd.22.04.2024 in connection with forest diversion of 2.1249 ha forest land for construction of 132 kv single circuit transmission line double circuit tower from 220 KV Salakati GSS to 132 KV PAM GSS in Bhairab Hill RF under Aie Valley Division, Bongaigaon by AEGCL.

This is for favour of your kind information and necessary action.

Encl: As stated above

Yours faithfully

Divisional Forest Officer
Aie Valley Division
Bongaigaon

Copy to the Conservator of Forests, Lower Assam Social Forestry Circle, Bongaigaon for favour of his kind information and necessary action.

Divisional Forest Officer
Aie Valley Division
Bongaigaon

No.B/AVD/132KV/2023/ 2231

Date: 25/04/24

Copy to the Asstt. General Manager, 132 KV Grid Substation Division, AEGCL, Dhaligaon for information.

Divisional Forest Officer
Aie Valley Division
Bongaigaon



ASSAM ELECTRICITY GRID CORPORATION LIMITED

Regd Office: 1st Floor, AEGCL, Bijulee Bhawan, Paltan Bazar, Guwahati-01
CIN:U4010AS2003SGC007238

Phone- 0361-2739520/Fax: 0361-2739513: Website: www.aegcl.co.in

No: AEGCL/AGM/DLG/T-60/2024/241

Dated: 22.04.2024

To

The Divisional Forest Officer
Aie Valley Division
Bongaigaon, Assam

Sub: Clarification regarding submission of documents in relation to diversion of 2.1249 Ha of forest land in Bhairab Hill forest under Aie Valley Division for construction of 132kV S/C Salakati-APM transmission line on D/C tower from Salakati GSS to APM GSS.

- Ref: 1) 3AS B/120/2022/GHY/4466-67; dtd. 04.09.2023.
2) FG.27/FCA/Proposal/Salakati Trans Line/AEGCL; dtd. 14.09.2023
3) AEGCL/AGM/DLG/T-60/2023/1490; dtd. 12.10.2023
4) A/AVD/132KV/20223/2560-61; dtd. 13.10.2023
5) 3-AS B/220.2022/GHY/4834-35; dtd.10.11.2023
6) FG.27/FCA/Proposal/Salakti Trans Line/AEGCL; dtd. 17.11.2023
7) A/AVD/132KV/2023/455-56; dtd. 21/02/2024
8) FG.27/FCA/Proposa/Salakati Trans Line/AEGCL; dtd. 27.02.2024

Sir,

In reference to MoEF letter under ref (5) and CCF letters under ref (6 & 8), the undersigned would like to clarify the points raised regarding the subject matter:

- 1) AEGCL, as a norm for execution of a transmission line, explored 3 alternate routes for construction of 132kV S/C Salakati-APM transmission Line between Salakati GSS and APM GSS. The route lengths are:
 - i) Route-I (Marked in Magenta: 42.767 km)-forest length-1.658km
 - ii) Route -II (Marked in Blue: 50.086km)-forest length-5km
 - iii) Route-III (Marked in Green: 48.669km)-forest length-13.480km

The final route i.e. Route-I (42.767km) has been selected for the project based on the lowest route length i.e. 42.767 km amongst the three alternate routes and lowest forest length route i.e. 1.658 km amongst the three alternate routes. The details of comparison of the 3-alternate routes along with comparison of ecological parameters (Aie Valley Forest Division) is enclosed herewith (**Annexure-I**). Also, a certified copy of route survey report is attached herewith (**Annexure-II**).

Here it may be noted that for the final route i.e. route-I, the total forest length is 1.658 km out of which forest route length under Aie Valley Division is 0.939 km for which the present proposal is submitted.



ASSAM ELECTRICITY GRID CORPORATION LIMITED

Regd Office: 1st Floor, AEGCL, Bijulee Bhawan, Paltan Bazar, Guwahati-01
CIN:U4010AS2003SGC007238

Phone- 0361-2739520/Fax: 0361-2739513: Website: www.aegcl.co.in

With reference to the route length of the transmission line mentioned in letter under ref (5) by MoEF which has been forwarded by the CCF vide letter under ref (6), the following clarification may be noted:

Three alternate routes were examined viz. (Route-I, Route-II and Route-III) and out of the three routes, alternate Route-I (42.767 Km) has been selected. It appears, that 48 Km length as mentioned in the letter (Sl. No. 1) is of Alternate route III. However, the final route as submitted in the proposal is for Route-I (42.767) km.

- 2) Sol Maps (1:50000) indicating the 3-alternating routes i.e. Route-I (42.767 Km, marked in Magenta), Route-II (50.086 Km, marked in Blue) and Route-III (48.669 Km, marked in Green) is, where Route-I is the final route is submitted herewith. (Annexure-III)
- 3) ROW proposal on SOI toposheet in 1:7000 scale is hereby submitted (Annexure-IV). Also, a satellite map showing the forest corridor is enclosed herewith (Annexure-V) for ease of reference.

Enclo: As stated above.

Yours faithfully

(S. Biswas)

Assistant General Manager
132 kV Grid Substation Division,
AEGCL, Dhaligaon.

Memo No: AEGCL/AGM/DLG/T-60/2024/ 241 (a-e)

Dated: 22/04/2024

Copy to,

1. The CGM PP&D, AEGCL, Bijulee Bhawan, Paltan Bazar, Ghy-01 for kind favor of information.
2. Chief Conservator of Forests and Nodal Officer (FC Act), Assam, for kind favor of information.
3. The Deputy General Manager, Bongaigaon T&T Circle, Dhaligaon for kind favor of information.

Assistant General Manager
132 kV Grid Substation Division,
AEGCL, Dhaligaon.



ASSAM ELECTRICITY GRID CORPORATION LIMITED

Regd Office: 1st Floor, AEGCL, BijuleeBhawan, Paltan Bazar, Guwahati-01
CIN:U4010AS2003SGC007238

Phone- 0361-2739520/Fax: 0361-2739513: Website: www.aegcl.co.in

Annexure-I

JUSTIFICATION FOR CHOOSING THE PROPOSED ROUTE FOR THE TRANSMISSION LINE UNDER DHALIGAON DIVISION

Alternative Route	Total Length (km)	Forest Route Length (km)	Forest Area	Name of the Reserved Forest	Type of Forest	Habitation	Canopy Density
Route-I (Final Marked in Magenta)	42.767km	0.939km	2.149Ha	Bhairab PRF	Moist Deciduous Forest	Golden Langur, Indian Rock Python, Monitor Lizard, Indian Pangolin, Tokay Gecko, etc.	>90%
Alternative Route-II (Marked in Blue)	50.086km	1.00km		Nakkati Hill RF	Moist Deciduous Forest	Golden Langur, Indian Rock Python, Tokay Gecko, etc.	>80%
Alternative Route- (Marked in Green)	48.669km	4.230km		Bhairab PRF	Moist Deciduous Forest	Golden Langur, Indian Rock Python, Monitor Lizard, Tokay Gecko, etc.	>90%

The transmission line is handled by two T&T Divisions of AEGCL separately. Both the divisions manage half part of the total length of line. i.e. 42.767km. it can be seen from the above table that, comparing the three alternative routes, the minimum forest land is covered by Route I. i.e. 1.658km (=0.939km Bhairab PRF and 0.719km=Nadangiri Hilly RF) Out of 1.658km area covered under forest land, **Dhaligaon Division handles 0.939km of Forest land of Bhairab PRF that falls under Aie Valley Division.**

Ruchismita Bhowmik
Ruchismita Bhowmik
Assistant Manager
132 KV Grid Sub-Station Division
AEGCL, Dhaligaon

[Signature]
Asstt. General Manager
132 KV Grid Sub-Station Division
AEGCL, Dhaligaon

OFFICE OF THE ASSTT GENERAL MANAGER, SUB-STATION DIVISION

P O - Dhaligaon . Dist Chirang .Assam-783385; Phone No.03664-241223 (CR) ,03664-241278 (off),

- vii. Crossings of communication lines should be minimum and should be preferably at right angles. Proximity and parallelism with telecommunication lines should be eliminated to avoid danger of induction between them.
- viii. Areas subject to flooding such as nalah should be avoided.
- ix. Restricted areas such as civil and military airfields should be avoided including aircraft landing approaches.
- x. All alignments should be easily approachable in dry and rainy seasons to enable maintenance throughout the year.
- xi. Areas that will present the problems of "Right of Way" and "Way Leave" during construction and maintenance should be avoided.
- xii. Routing of transmission lines through protected/reserved forest area should be avoided/restricted as far as possible
- xiii. Effort should be made to keep the route at a distance from mining areas.

RECONNAISSANCE REPORT FOR THREE ALTERNATIVES ALONG WITH BEE LINE:-

In course of our preliminary survey apart from the Bee Line with three alternative routes were considered which marked in Black, Magenta, Blue & Green have been indicated in the attached Topographical maps for final selection before detail survey of the selection route is undertaken by us. Please note that those routes indicated in the attached maps are tentative. Comparative details with respect to the above routes with their merits and demerits are indicated below for kind perusal and approval of the selected route.

(A) BEE LINE (Marked in Black).

From the enclosed map it may please be observed that the 'BEE' line is the straight line connecting the BTPS Sub Station and the APM Sub Station. Length of the BEE Line is about 28.80 KM. This 'BEE' route in comparison to the other investigated routes is shorter. However, the aforesaid route is not a practical proposition for the following reasons: -

- 1) BEE Line passes through near about 5km (Nadangiri R.F and Bhayrab R.F) Reserved forest land area
- 2) This line also passes through Village area near Talguri, Bangalpara, Dholmara, Sidaguri, Balapara etc.
- 3) The crossing point of NH-31 & Proposed Railway is not suitable for tower location.

**PROPOSED 132 KV D/C TRANSMISSION
LINE FROM BTPS TO APM (JOGIDHOPA).**

SUBMITTED BY: - G B CONSTRUCTION

*certified copy of route survey
report*

[Signature]
Asst. General Manager
132 KV D/C Transmission Division
APM, Dhalgaon

[Signature]

- 4) BEE line crossing 132KV S/C BTPS - Dhaligaon Tr. Line two times near BTPS S/S which is not possible.
- 5) This route passes through Dalni Bill area near about 2Km, that bill is a permanent water lodged area, so there was 6 nos. Pile foundation required.
- 6) This route passes maximum altitude area, so there was benching or leg extension proposal required.

Finding the 'BEE' line route not feasible, we have explored alternative routes in close proximity to the said 'BEE' line.

(B) FINAL ROUTE (Marked in Magenta)(Proposed).

The Length of the final route (Proposed) is 42.767KM (approx). This route passes through the villages, Salakati, Rasalpara, Banduguri, Dholmara, Bagutamari, Shilkatari, Tamulbajan, Nankuras, Singimari, Durgamari, Bamitila, Dhuntala, Pochhagaon, salbar, Radrapara, Mechpara, Kathalguri, Naldubi, Kharbazar, Barapukhuri, Bonagaon, Chakom, Kumarkata, Barbhola, Dhadaumar, Putipara, Palital and Jogidhopa. The Line passes through unavoidable Reserve Forest Nadangiri Hilly RF & Bhairab R.F land near about 1.658Km.

(C) ALTERNATIVE-II (Marked in Blue).

The Length of the final route (Proposed) is 50.086KM (approx). This route passes through the villages, Salakati, Rasalpara, Banduguri, Dholgaon, Naitamara, Tilapara, Bijaygaon, Duramart, Bhadaragaon, Kujia, Bidyapur, Chengmari, Majhigaon, Ujanpara, Dholagaon, Dekarmari, Tilapara, Laidhapara, Jogipara, Barkhata, Nalbari, Saopara, Naidubi, Khuramari, Piknapara, Kerkhabari, Uttar Kerkhabari, Simlaguri, Besimai, Haripani, Chaiantapara, Khuclamari and Jogidhopa. The Line passes through Bhumeswar Hill Reserve Forest (4.000Km approx) and Nakat Reserved forest (1.000Km. approx).

(D) ALTERNATIVE-III (Marked in Green).

The Length of the final route (Proposed) is 48.669KM (approx). This route passes through the villages, Salakati, Dogra para, Kathalguri, Nadangiri, Chhagalkhuti, Pundibari, Mouriagaon, Dabargaon, Anujuli, Malsingpara, Chokrasila, Alubhul, Suksuka, Areyarjhar, Bataldal, Bhokatpara, Kurshakati, Hordemari, Jalikura, Balajani, Dampara, Kherpuji, Beltali, Pellital, Bharali Kundi & APM Colony. The Line passes through Nadangiri Hill Reserve Forest (1.00Km approx), Chakrasila Reserved forest (5.150Km. approx), Shrigam Reserve Forest (3.100Km approx) & Bhairabi Reserved forest (4.230Km. approx).

PROPOSED 132 KV D/C TRANSMISSION
LINE FROM BTPS TO APM (JOGIDHOPA).

SUBMITTED BY: - G B CONSTRUCTION

*certified copy of route
survey report-*

*Asst. General Manager
132KV D/C Division
Asst. Secy, Dhaligaon*

San

COMPARATIVE STATEMENTS AT A GLANCE

1.0 The comparative features of alternatives for selecting the optimum route are as under:

Description	Final Route (Marked In magenta)	Alternative-II. (Marked in blue)	Alternative-III. (Marked in green)
Route Length (in Kms)	42.767 K.M.	50.086 K.M.	48.669 Km.
Angle Point	99	115	113
River Crossing (Major)	1	1	1
River Crossing (Minor)	Nil	Nil	Nil
Forest (Reserve Forest & Protect Forest)	Kokrajhar Dist.- .719km. & Bongaigaon Dist.- .939km.	5.000Km	13.480 Km.
No. Of Railway Crossing	1	1	1
N.H. Crossing	1	3	Nil
S.H. Crossing	Nil	Nil	Nil
400 KV D/C Line	Nil	Nil	Nil
400 KV S/C Line	Nil	Nil	Nil
220 KV D/C Line	Nil	4	Nil
220 KV S/C Line	Nil	Nil	Nil
132 KV D/C Line	1	1	1
132 KV S/C Line	1	1	1
66 KV Line	Nil	Nil	Nil
No Of Pole Location	1	1	1

PROPOSED 132 KV D/C TRANSMISSION
LINE FROM BTPS(SALAKATI) TO APM (JOGIGHOPA).

SUBMITTED BY: - G B CONSTRUCTION

*certified copy of rough
survey report*

Asst. General Manager
132 KV Construction Division
AEC, Bongaigaon

Sami

(structure - 2)

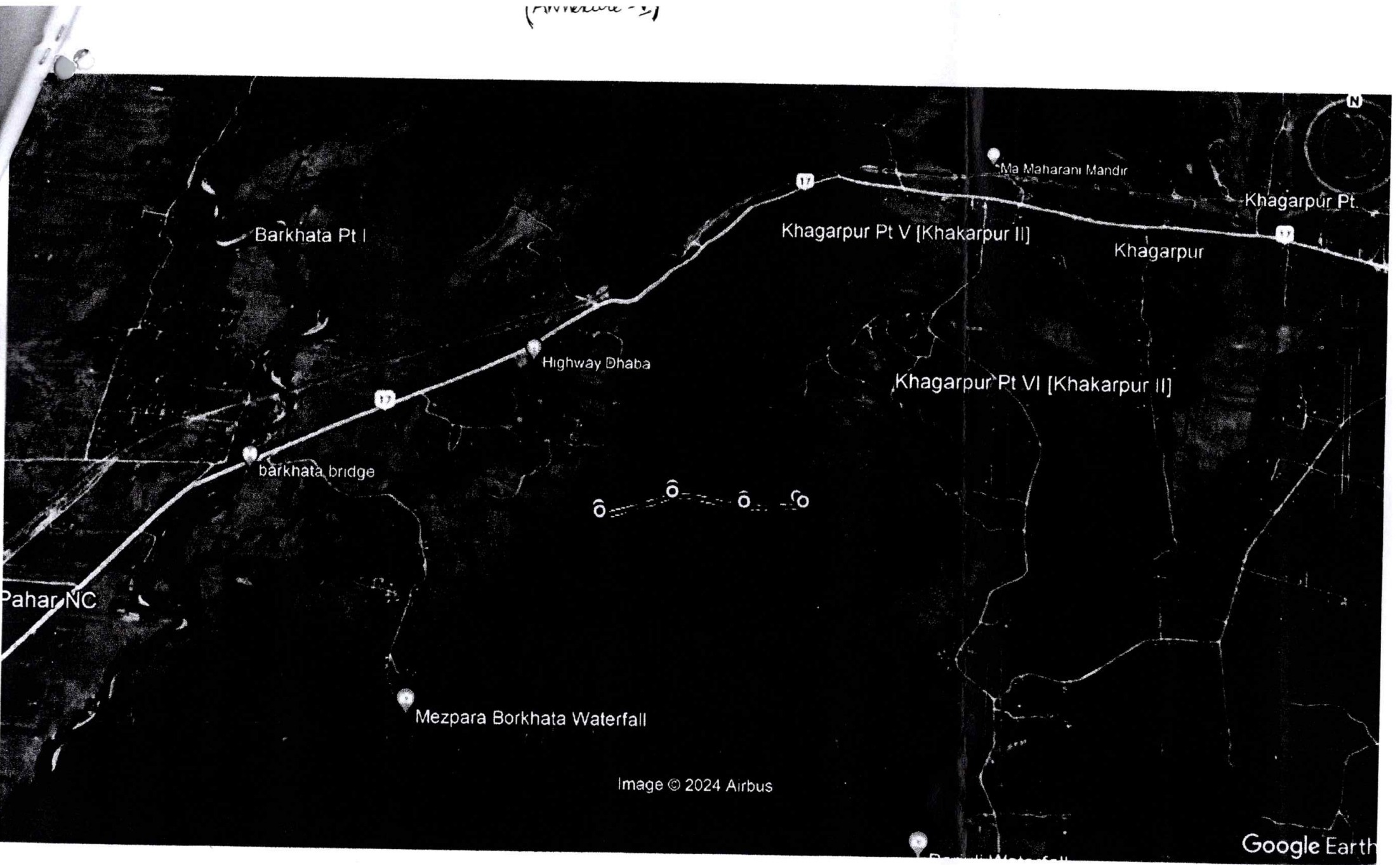
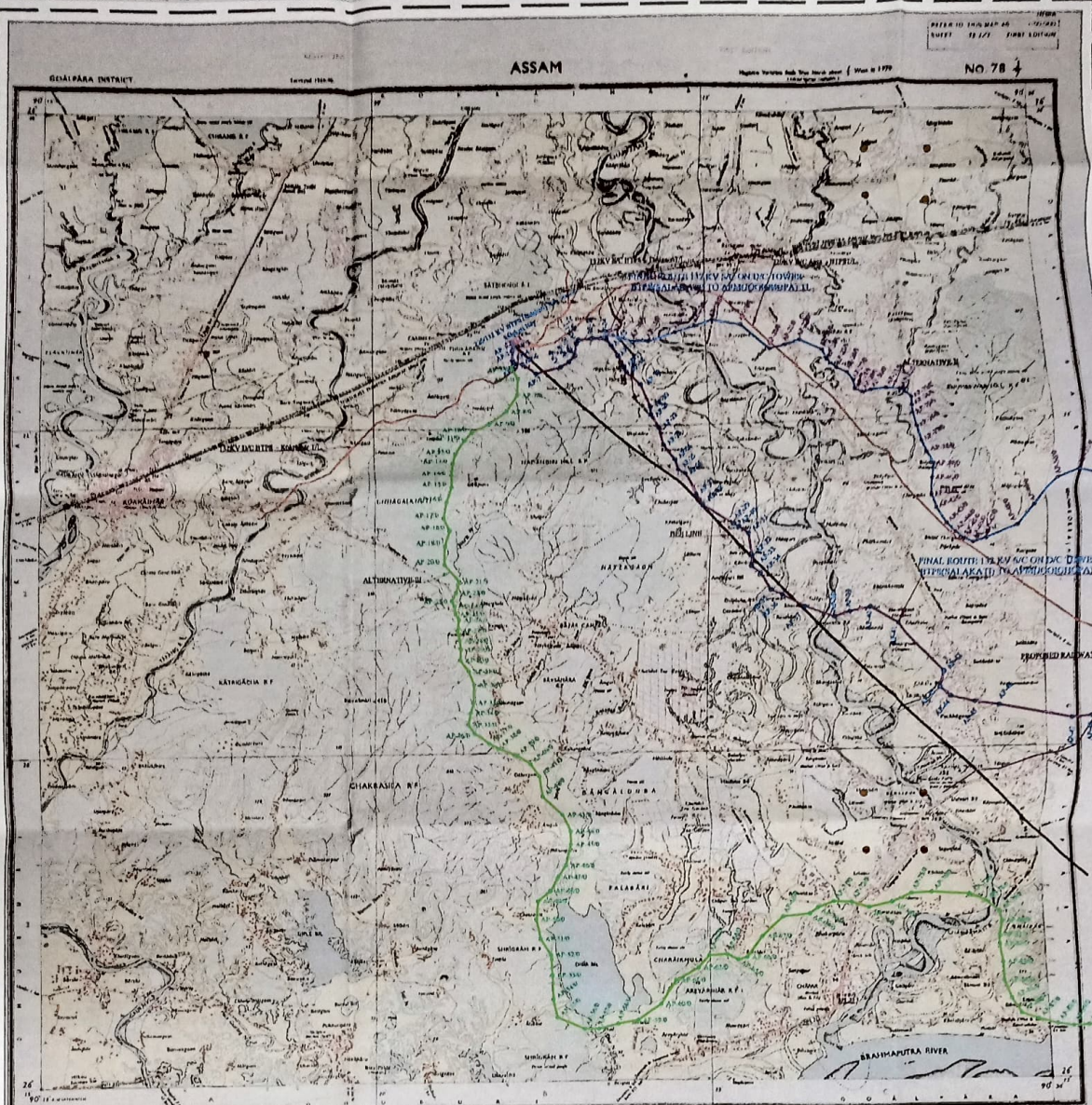


Image © 2024 Airbus

Google Earth

ALTERNATIVE ROUTES ALONG WITH BEE LINE FOR THE 132 KV S/C TRANSMISSION LINE ON D/C TOWER FROM 220 KV SALAKATI SUBSTATION(BTPS) TO JOGIGHOPA SUBSTATION(APM)



REFER TO THIS MAP AS
SHEET 78/27 FIRST EDITION
1978

Scale in km
0 1 2 3 4 5 6 7 8 9 10

HEIGHTS & CONTOURS IN METRES
CONTOUR INTERVAL 20 METRES

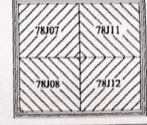
When heights are shown in this sheet, they are not subject to any change of the sea level. The height of the sea level is shown in the margin of the sheet. The height of the sea level is shown in the margin of the sheet. The height of the sea level is shown in the margin of the sheet.

Notes on changes in the map
The map is a reproduction of the original map. The map is a reproduction of the original map. The map is a reproduction of the original map.

- LEGEND
- 1) ALTERNATIVE-I
 - 2) ALTERNATIVE-II
 - 3) ALTERNATIVE-III
 - 4) EXT. LINE
 - 5) BEE LINE
 - 6) ANTI-ANGLE POINT
 - 7) BRIDGE STN.
 - 8) PROPOSED RAILWAY



TOPO SHEET INDEX



Signature of the Project Manager
132KV Grid Sub Station (BTPS)
AEGCL, Dibrugarh



SCALE: 1:50,000

ALL DIMENSION ARE IN METRE



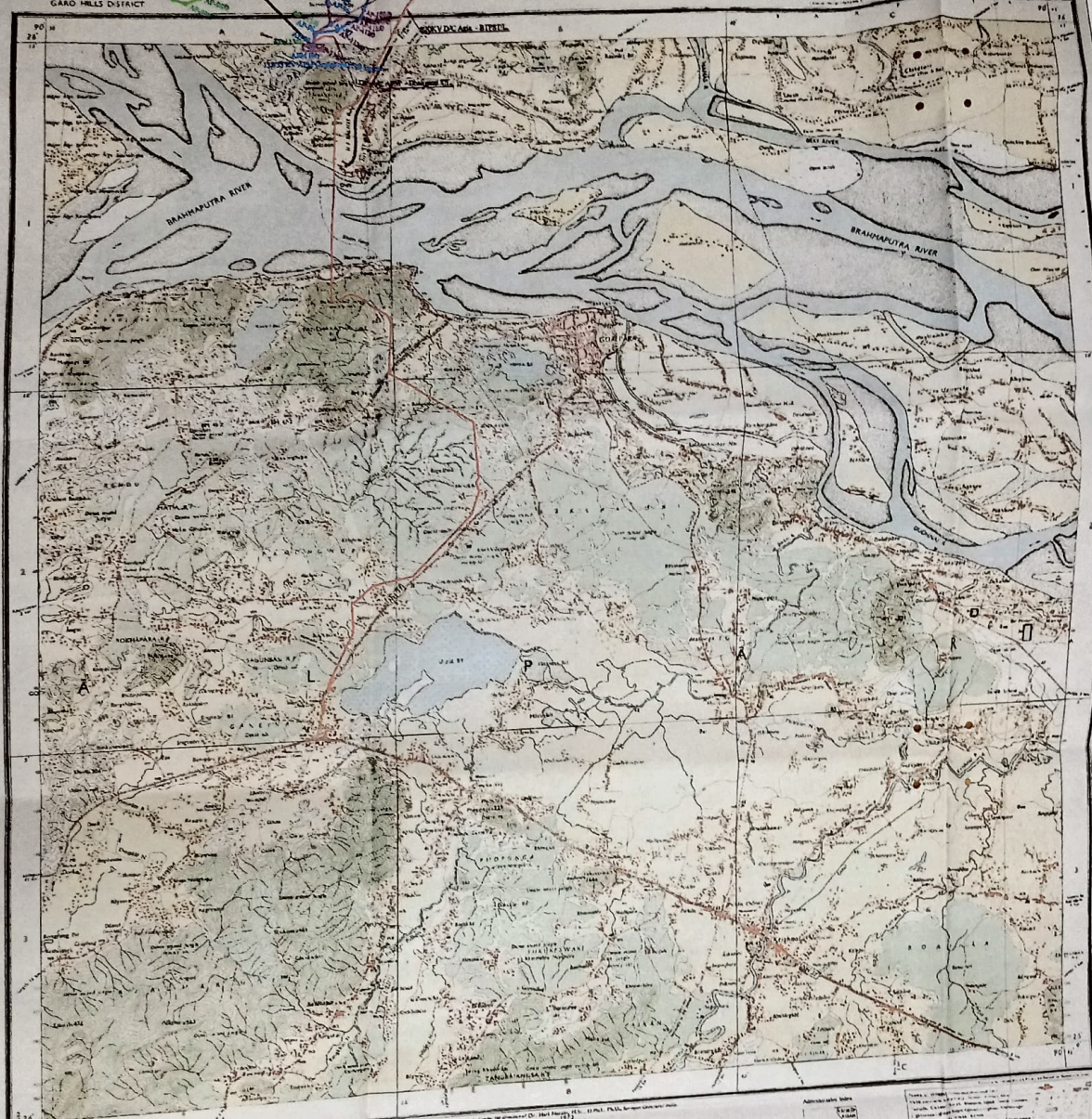
REFER TO THIS MAP AS - 1:50,000
SHEET 78 L/12 FIRST EDITION

NO 78

COALPARA & KANHUP DISTRICTS
GARDHILLS DISTRICT

FINAL ROUTE 132 KV D/C TOWER
BTPOKISALAKAT TO AMCHODHOP
ASSAM, MEGHALAYA

FIRST EDITION



1:50,000

HEIGHTS & CONTOURS IN METRES
CONTOUR INTERVAL 10 METRES

Notes regarding the map: 1. The map is based on the Survey of India's 1:50,000 scale topographic maps. 2. The map is a reproduction of the original map and is not to be used for any other purpose. 3. The map is a reproduction of the original map and is not to be used for any other purpose.

Notes regarding the map: 1. The map is based on the Survey of India's 1:50,000 scale topographic maps. 2. The map is a reproduction of the original map and is not to be used for any other purpose. 3. The map is a reproduction of the original map and is not to be used for any other purpose.

REFER TO THIS MAP AS - 1:50,000
SHEET 78 L/12 FIRST EDITION

LEGEND

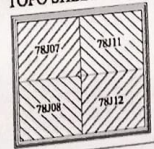
- 1) ALTERNATIVE-I
- 2) ALTERNATIVE-II
- 3) ALTERNATIVE-III
- 4) EXT. LINE
- 5) BEE LINE
- 6) ANGLE POINT
- 7) SUBST. STN.
- 8) PROPOSED RAILWAY



Chief Manager
Meghalaya Sub-Division
AGCL, Dibrugarh

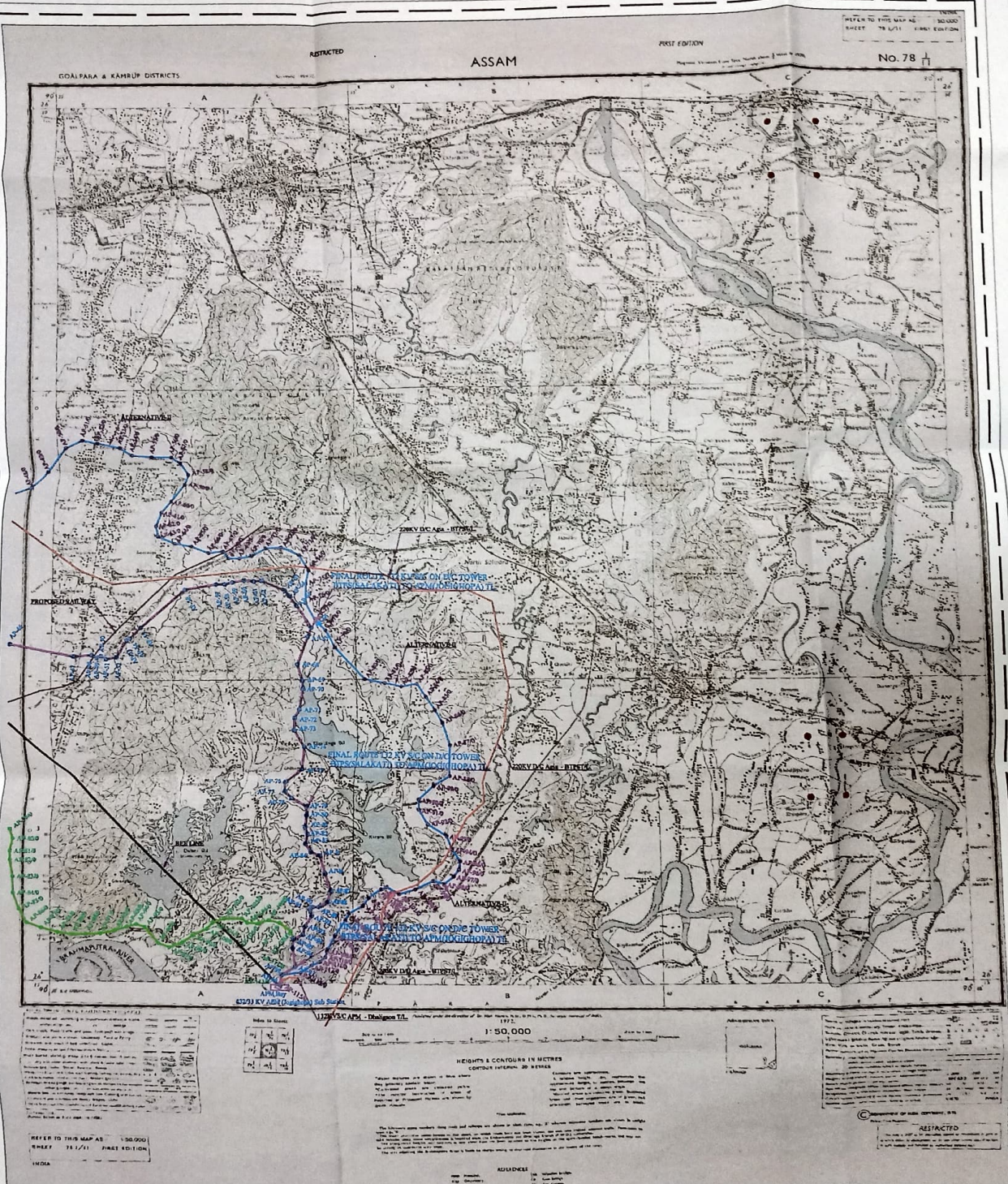
Chief Manager
132KV Grid Sub-Station & District
AGCL, Dibrugarh

TOPO SHEET INDEX



CLIENT	Assam Electricity Grid Corporation Ltd.		
PROJECT	Survey of 132 KV Transmission Line Using Modern Techniques		
LINK	132 KV D/C TOWER FROM BTPOKISALAKAT TO AMCHODHOP TRANSMISSION LINE		
CONTRACTOR	P.K.DUTTA & CO. (P) LTD.		
TITLE	FOREST PROPOSAL		
DRAWN BY:	CHECKED BY:	RECOMMEND BY:	APPROVED BY:
(P.K.D.)	(A.G.C.)	(A.G.C.)	(A.G.C.)
<p>SCALE: 1:50,000</p> <p>ALL DIMENSION ARE IN METRE</p>			





REFER TO THIS MAP AS 1:50,000
FIRST EDITION
INDIA



1:50,000
HEIGHTS & CONTOURS IN METRES
CONTOUR INTERVAL: 20 METRES

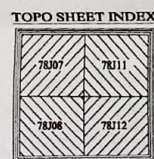
ASSAM
GOVERNMENT OF INDIA
DEPARTMENT OF LAND SURVEY, S.W.



- LEGEND**
- 1) ALTERNATIVE-I
 - 2) ALTERNATIVE-II
 - 3) ALTERNATIVE-III
 - 4) EXT. LINE
 - 5) NEW LINE
 - 6) ADVANCE POINT
 - 7) BOUNDARY
 - 8) PROPOSED RAILWAY



Chief Manager
Maidanpur Sub-Division
AGGL, Dibrugarh

Chief Manager
132KV D/C Sub-Station Divs.
AGGL, Dibrugarh



CLIENT	Assam Electricity Grid Corporation Ltd.		
PROJECT	Survey of 132 KV Transmission Line Using Modern Techniques		
LINK	132 KV D/C TOWER FROM BTPS TO APH(JOGIDHOPA) TRANSMISSION LINE		
CONTRACTOR	P.K.DUTTA & CO. (W.B)		
TITLE	FOREST PROPOSAL		Drawing No. - FOREST/02.
DRAWN BY: (P.K.D.)	CHECKED BY: (A.R.G.C.I.)	RECOMMEND BY: (A.R.G.C.I.)	APPROVED BY: (A.R.G.C.I.)
		SCALE:- 1:50,000	
		ALL DIMENSION ARE IN METRE	
			

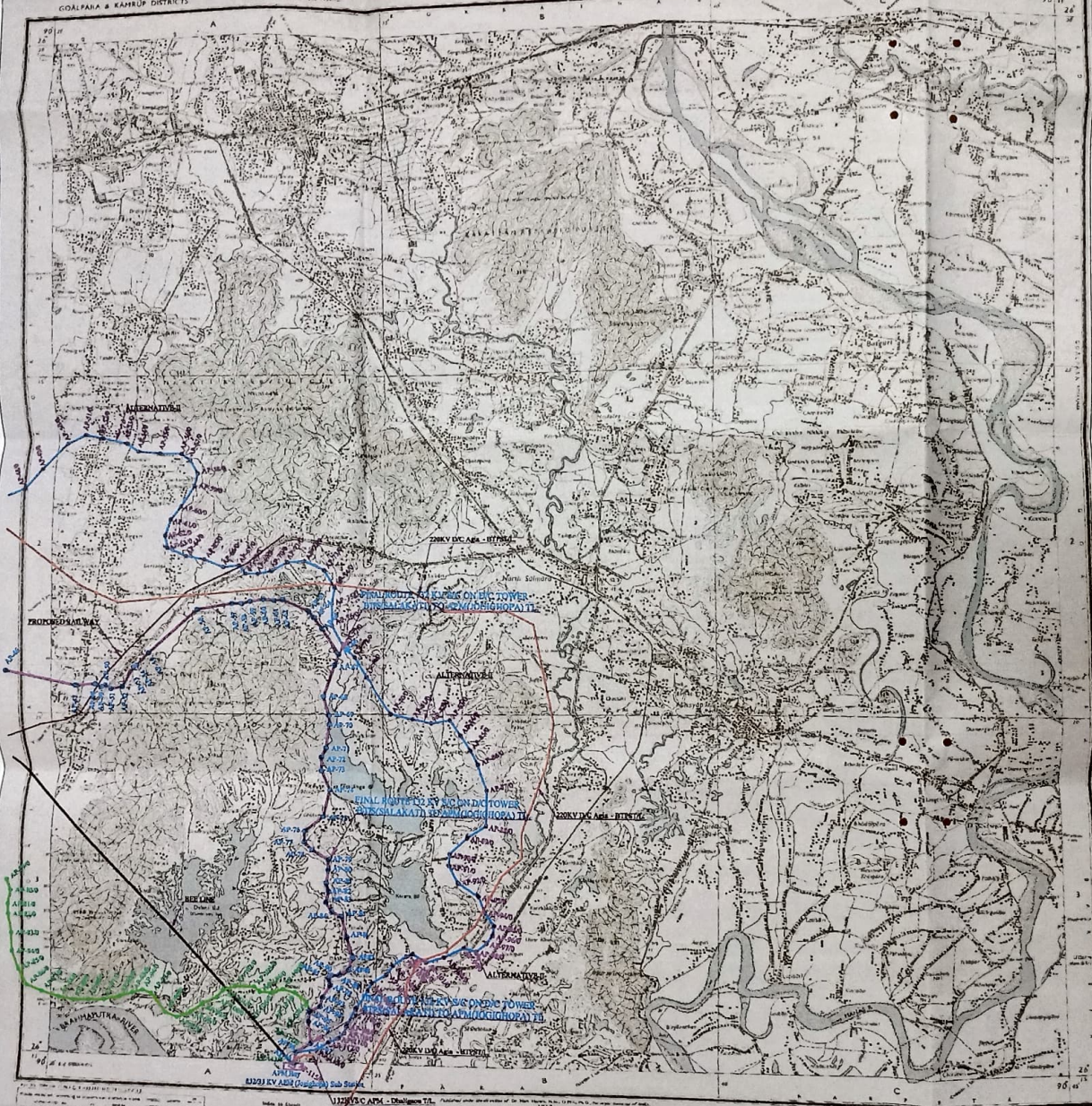
RESTRICTED

ASSAM

FIRST EDITION

No. 78

GOALPARA & KAMRUP DISTRICTS



REFERENCE TO THIS MAP NO. 1:50,000
 SHEET 78/1/1 FIRST EDITION
 1:50,000



METRIC SCALE - Distances in Metres
 1:50,000

HEIGHTS & CONTOURS IN METRES
 CONTOUR INTERVAL - 20 METRES

The heights are based on the datum of the Indian Mean Sea Level (I.M.S.L.) as determined by the Survey of India. The contours are drawn at 20 metre intervals.

REFERENCES:
 1. Survey of India Topographic Sheets
 2. Assam Electricity Grid Corporation Ltd.

THE ASSAM ELECTRICITY GRID CORPORATION LTD.
 SURVEY OF 132 KV TRANSMISSION LINE USING MODERN TECHNIQUES
 FOREST PROPOSAL

RESTRICTED
 No. 78/1/1

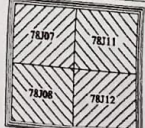
LEGEND

- 1) ALTERNATIVE-I
- 2) ALTERNATIVE-II
- 3) ALTERNATIVE-III
- 4) NEXT LINE
- 5) NEXT LINE
- 6) APPROXIMATE POINT
- 7) BEYOND STN.
- 8) PROPOSED RAILWAY



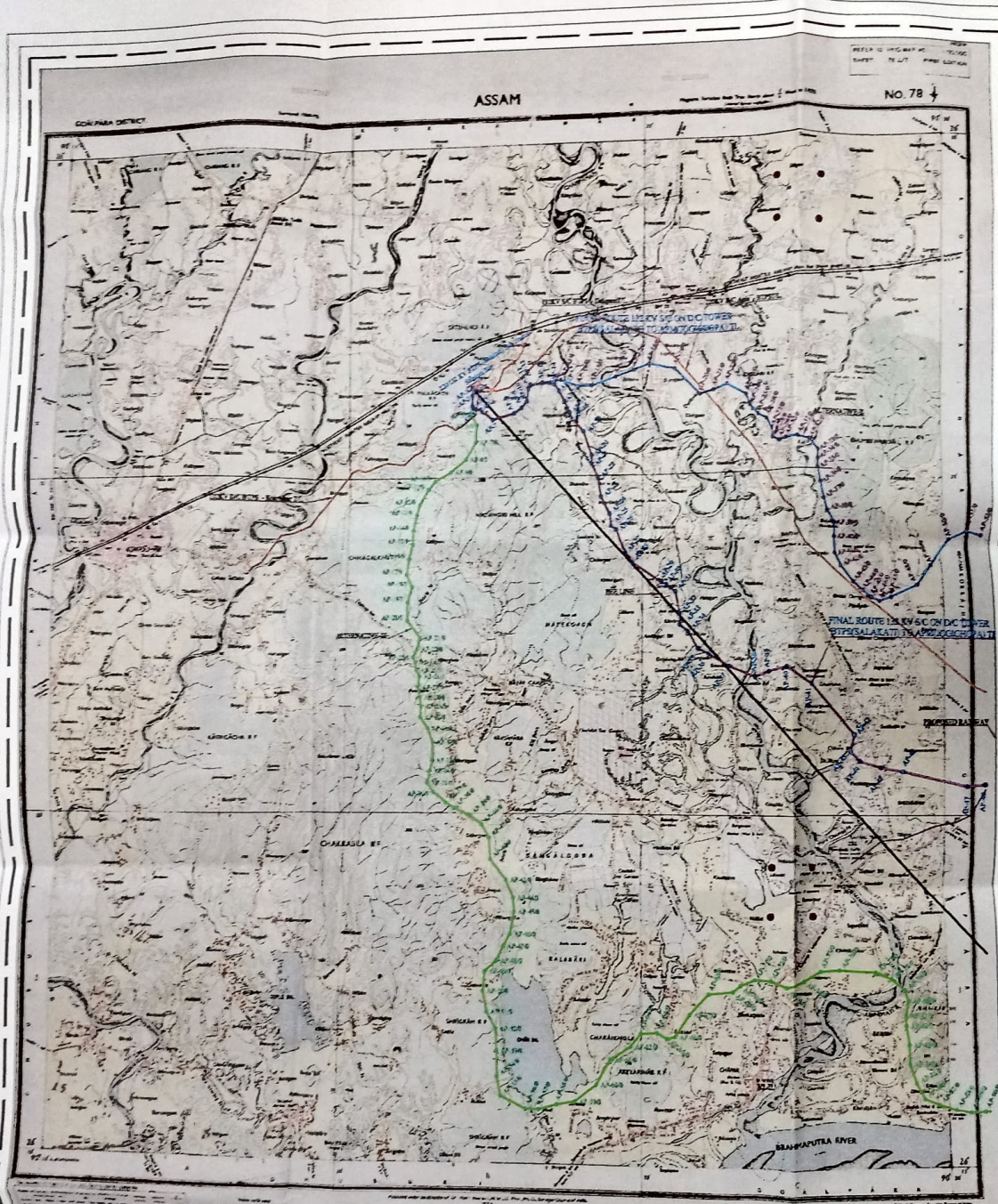
Project Manager
 Mr. P. K. Dutta
 Asst. Engineer
 Mr. A. G. Choudhary



TOPO SHEET INDEX











CLIENT	Assam Electricity Grid Corporation Ltd.		
PROJECT	Survey of 132 KV Transmission Line Using Modern Techniques		
LINK	132 KV D/C TOWER FROM BTPS TO APN (GOJIDHOPA) TRANSMISSION LINE		
CONTRACTOR	P.K.DUTTA & CO. (P) LTD.		
TITLE	FOREST PROPOSAL		
DRAWN BY:	CHECKED BY:	RECOMMEND BY:	APPROVED BY:
(P.K.D.)	(A.G.C.)	(A.G.C.)	(A.G.C.)
SCALE:- 1:50,000 ALL DIMENSION ARE IN METRE			

ALTERNATIVE ROUTES ALONG WITH BEE LINE FOR THE 132 KV S/C TRANSMISSION LINE ON D/C TOWER FROM 220 KV SALAKATI SUBSTATION(BTPS) TO JOGIGHOPA SUBSTATION(APM)



CLIENT	Assam Electricity Grid Corporation Ltd.		
PROJECT	Survey of 132 KV Transmission Line Using Modern Technology		
LINK	132 KV D/C TOWER FROM BTPS TO AMPOGDHOPA TRANSMISSION LINE		
CONTRACTOR	P.K.DUTTA & CO. (P.)		
TITLE	FOREST PROPOSAL	Drawing No. - FOREST/01.	
DRAWN BY: (A.S.G.C.)	CHECKED BY: (A.S.G.C.)	RECOMMEND BY: (A.S.G.C.)	APPROVED BY: (A.S.G.C.)
 <p style="text-align: center;">SCALE- 1:50,000</p> <p style="text-align: center;">ALL DIMENSION ARE IN METRE</p> 			

LEGEND

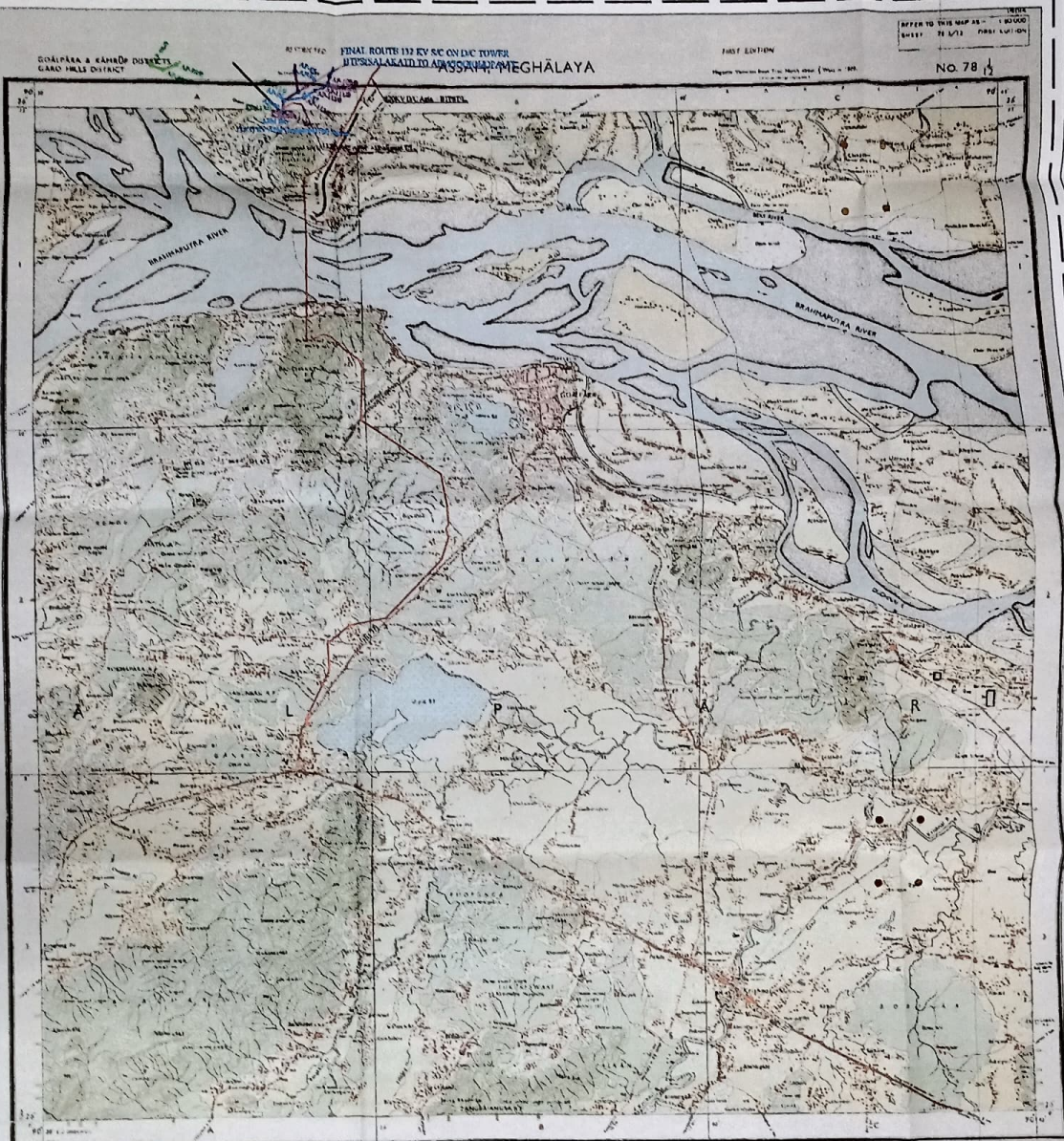
1) ALTERNATIVE 1	
2) ALTERNATIVE 2	
3) ALTERNATIVE 3	
4) RIVER LINE	
5) RAIL LINE	
6) ARRANGES PLANT	
7) TOWER SITE	
8) PROPOSED AIRWAY	



[Handwritten signature]
General Manager
American National Bank
Nashua, New Hampshire

[Handwritten signature]
Asst. General Manager
H&B Gold Sub-Stations Corp.
Nashua, New Hampshire





LEGEND

- (1) ALTERNATIVE-I
- (2) ALTERNATIVE-II
- (3) ALTERNATIVE-III
- (4) EXT. LINE
- (5) BEE LINE
- (6) ANTI-AIR POINT
- (7) SUB-STA.
- (8) PROPOSED RAILWAY

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CLIENT Assam Electricity Grid Corporation Ltd.

PROJECT Survey of 132 KV Transmission Line Using Modern Techniques

LINK 132 KV D/C TOWER FROM BT/PS TO AM(JOGDHORA) TRANSMISSION LINE

CONTRACTOR P.K.DUTTA & CO. (W.)

TITLE FOREST PROPOSAL.

DRAWN BY: (P.K.D.)

CHECKED BY: (A.G.G.)

RECOMMEND BY: (A.G.G.)

APPROVED BY: (A.G.G.)

SCALE: 1:50,000

ALL DIMENSION ARE IN METRE

LEGEND

- (1) ALTERNATIVE-I
- (2) ALTERNATIVE-II
- (3) ALTERNATIVE-III
- (4) EXT. LINE
- (5) BEE LINE
- (6) ANTI-AIR POINT
- (7) SUB-STA.
- (8) PROPOSED RAILWAY

TOPO SHEET INDEX

CLIENT Assam Electricity Grid Corporation Ltd.

PROJECT Survey of 132 KV Transmission Line Using Modern Techniques

LINK 132 KV D/C TOWER FROM BT/PS TO AM(JOGDHORA) TRANSMISSION LINE

CONTRACTOR P.K.DUTTA & CO. (W.)

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