

TRANSMISSION CORPORATION OF ANDHRA PRADESH LIMITED

From
Executive Director,
HRD & Planning
APTRANSCO, Vidyut Soudha,
Hyderabad -500082.

To
The Member Secretary
Southern Regional Power Committee,
Central Electricity Authority,
No. 29 Race Course Cross Road
Bangalore-560 009
Fax : 080-22352616

Lr.No.ED/HRD & Plg/DE-Comml/ADE-Con/F:Andhra Cement/D.No. 163 /15,dt:18.03.2015

Sir,

Sub: M/s. Andhra Cements Ltd- Durga Cement Works – proposed to set up 30 MW Captive Power plant at Gamalapadu (V), Dachepalli (M), Guntur Dist – Construction of 132KV Switching Station at M/s Andhra Cements Ltd – furnishing of information - Reg.

Ref: M/s Andhra Cements Ltd Application dt: 06.08.2014.

• **

It is to inform as follows

- i) At Present M/s Andhra Cements Ltd, Gamalapadu (V), Dachepalli (M), Guntur Dist has connected at 132KV Potential by solid tapping on 132KV Wadapally – Piduguralla Line.
- ii) Vide ref cited, M/s Andhra Cements Ltd has requested to furnish the feasibility report for their 30 MW Captive Generation Power plant at Durgapuram, Srinagar (P.O), Dacheppali, Guntur Dt. for connecting to APTRANSCO Grid and our Power Systems wing furnished the final feasibility and informed that M/s Andhra Cements Ltd has to construct 132KV Switching Station by making Double LILO of Circuits of 132KV Wadapalli – Piduguralla and 132KV Wadapalli – Tangeda lines at M/s Andhra Cements ltd. The 132KV Wadapalli – Piduguralla and 132KV Wadapalli – Tangeda lines are ISTS lines between Andhra Pradesh and Telangana state.

Yours faithfully,

B.V. Shankar Reddy
18/3/15
Executive Director
(HRD & Planning)

Copy to:

The Executive Director/POSOCO/SRLDC/ No. 29 Race Course Cross Road
Bangalore-560 009

The Chief Engineer/SP&PA/ Sewa Bhawan, Rama Krishna Puram, New
Delhi-110066

900-CC-(SP&PA)
10/4/15

SP
PJ
D. Meel
18/3/15

TRANSMISSION CORPORATION OF ANDHRA PRADESH LIMITED
VIDYUT SOUDHA :: HYDERABAD

From
Director (Projects),
APTRANSCO,
Vidyut Soudha,
Hyderabad.

To
The Member Secretary,
SRPC,
Bangalore.

Lr.No. Dir(Proj)/F.No. SRLDC Letters/2015, D.No. 107 /2015, dated.15.10.2015.

400kV Vemagiri - Nunna double circuits - I & II were initially proposed to be connected to 400kv Sattenapally bypassing 400kV Nunna SS.

During the discussion in standing committee it was deliberated that only one 400kV Vemagiri - Nunna circuit-I would be LILoed at 400kV Sattenapally since adequate loads have not come at 400kV Sattenapally and accordingly 400kV Vemagiri - Sattenapally was charged on 12.10.2015.

The works on other circuit 400kV Nunna - Sattenapally are completed and ready for charging. 400kV Vemagiri - Nunna circuit-II is already in service. SRLDC is not permitting AP to charge 400kV Nunna - Sattenapally line as they don't have knowledge of changes contemplated in this scheme. However 400kV Vemagiri - Nunna circuit-II will be made through to 400kV Sattenapally when Podili 400kV SS is commissioned.


It is understood that there will be a meeting on 20.10.2015 to finalize certain ISTS issues at SRPC. In this connection it is requested that the above issue may also be discussed in the meeting as a point for which Sri. Pardeep Jindal, Director (CEA) & APTRANSCO may be advised to attend the meeting at SRPC to sort out the issue on 20.10.2015.

Encl: Schematic drawing of the above.


DIRECTOR (PROJECTS)

Copy to:

- The Member Power Systems/CEA/New Delhi.
- ✓ Sri. Pardeep Jindal, Director/CEA/New Delhi.
- Smt. Seema Gupta/COO/PGCIL/Gurgaon.
- The Executive Director/SRLDC/Bangalore.

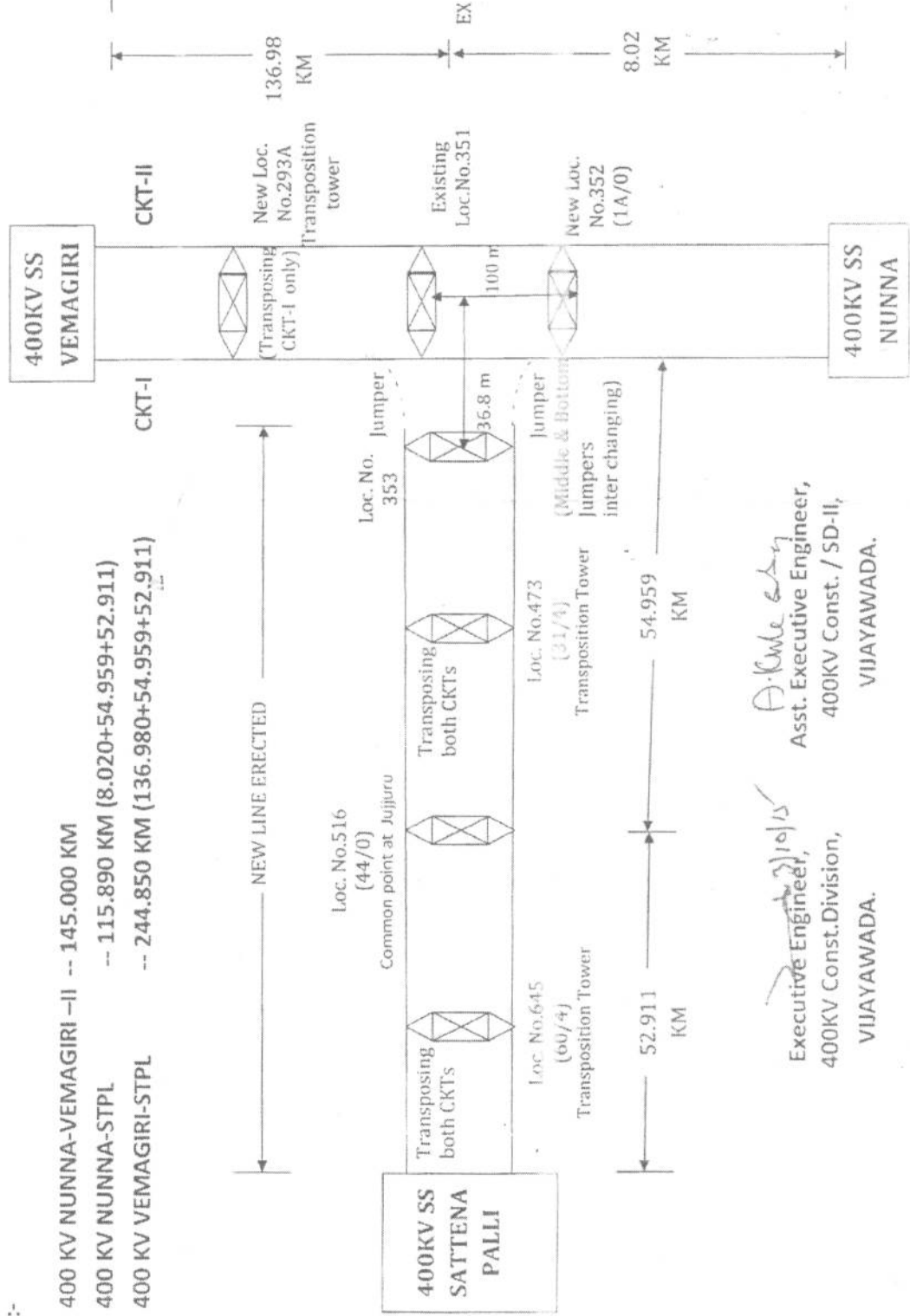
Ms. Shivani, Asst Dir
P. disson 
19/10/15

SCHEMATIC DIAGRAM SHOWING LINE LENGTHS AFTER MAKING LILO OF

400 KV NUNNA - VEMAGIRI CIRCUIT-I TO 400 KV SATTENAPALLI SS

Note :-

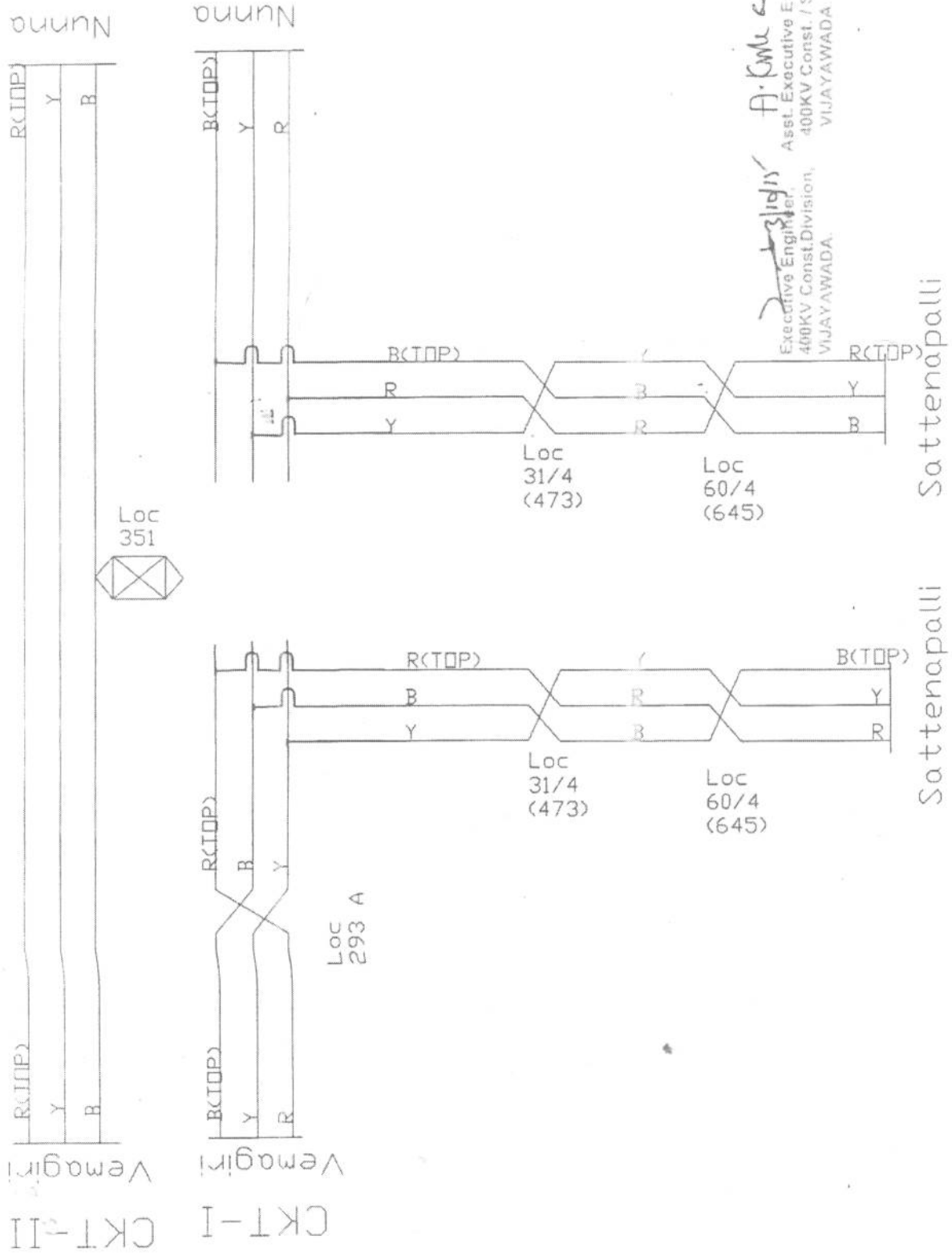
1. 400 KV NUNNA-VEMAGIRI -II -- 145.000 KM
2. 400 KV NUNNA-STPL -- 115.890 KM (8.020+54.959+52.911)
3. 400 KV VEMAGIRI-STPL -- 244.850 KM (136.980+54.959+52.911)



Executive Engineer,
400KV Const. Division,
VIJAYAWADA.

A. K. Srinivas
Asst. Executive Engineer,
400KV Const. / SD-II,
VIJAYAWADA.

SCHEMATIC DRAWING SHOWING THE TRANSPOSITION ARRANGEMENT AFTER MAKING LILO OF 400 KV NUNNA - VEMAGIRI CIRCUIT- I TO 400 KV SATTENAPALLI SS



A. K. M. Reddy
 Executive Engineer
 Asst. Executive Engineer,
 400KV Const. Division,
 VIJAYAWADA.

TRANSMISSION CORPORATION OF TELANGANA LIMITED

From
The Director/Transmission & Projects,
TSTRANSCO,
Vidyut Soudha,
Hyderabad.

To
(1) The Chairman,
Central Electricity Authority (CEA),
RK Puram, Sewa Bhavan,
New Delhi-110066

(2) The Chairman & Managing Director,
Power Grid Corporation of India (PGCIL),
Sector - 29, Near IFFCO Chowk, Gurgaon,
Haryana - 122001.

Lr.No. SE (PS)/DE(SS<SS)/F.Evacuation/D.No. 94 /15, Dt: 02/07/2015

Sir,

Sub: - TSTransco - Study of Evacuation Plan & System Studies for the proposed State Generation Projects - Additional Connectivity for the proposed 400/220 kV Dindi SS - Requested - Reg.

Ref:- 1) Lr.No.CMD/TSTransco/SE/PS/DE-SS/F-TP/D.No.52/15,dt.28-04-2015
2) Lr.No.CMD/TSTransco/SE/PS/DE-SS/F-TP/D.No.65/15,dt.20-05-2015
3) Lr.No.SE/PS/DE/SS<SS/F.Evacuation/D.No.87/15,dt.26-06-2015

- 1) We appreciate your kind support for carrying out joint studies in respect of new (Damaracherla, KTPS & Manuguru) generation evacuation schemes.
- 2) Further to the above, it is to inform that the Telangana Government has announced the ambitious programme of providing 9 hrs. day time agricultural supply to the farmers from FY 2016 - 17. This has necessitated additional connectivity to the proposed 400/220 KV Dindi SS.
- 3) System Studies are carried out at CEA New Delhi along with the officials of Power Grid on 25-06-2015 and 26-06-2015 for the additional connectivity for the following considering 2016-17 base case with Generation of 8628 MW, and load of 10,095 MW.
- 4) In view of the above, the following New Substations and Transmission lines may be approved immediately for meeting the 9hrs. day time Agricultural supply to the farmers from 01-04-2016.

News Substations :

- 400/220 KV Dindi SS - 3x500 MVA
- 220/132 KV Nagarkurnool SS - 2x100 MVA
- 220/132 KV Pedagopati SS - 2x100 MVA
- 220/132 KV Ashwaraopet SS - 2x100 MVA

NSL-2107
Member (PS)

22/7/15
EL (PS/PA)

Cont..2..

3358
21/7/15
29/7/15

O/o Member (Power System)
Dy. No. : 1447
Date : 22/7/15

News Lines:

- 400 KV LILO of both circuits of Srisaillam - Mamidipally Twin Moose DC line to 400 KV SS Dindi - 30 kms.
- 400 KV LILO line of Nagarjunasagar - Kurnool Twin Moose SC line to 400 KV SS Dindi - 5 kms.
- 220 KV Single Moose DC line from 400/220 KV Dindi SS to upcoming 220 KV Thimajipet SS - 58 kms.
- 220 KV Single Moose DC line from 400/220 KV Dindi SS to Existing 220 KV Kondamallepally SS - 35 kms.
- 220 KV Single Moose DC line from 400/220 KV Dindi SS to proposed 220 KV Nagarkurnool SS (80 MW) - 43 kms.
- 220 KV Single Moose DC line from 400/220 KV Asupaka SS to proposed 220 KV Ashwaraopet SS (90 MW)- 20 kms.
- 220 KV LILO line of KTPS - Lower Sileru Single Moose DC line to 400/220 KV SS Asupaka - 15 kms.
- 220 KV Single Moose DC line from 400/220 KV Bommanapalli SS to proposed 220 KV Pedagogpati SS (65 MW) - 110 kms.
- 400 KV LILO of both circuits of VTPS (Vijayawada) - Malkaram Twin Moose DC line to 400 KV SS Suryapet - 5 kms.

5) It is also requested to communicate early approval to Manuguru (Bhadradri Thermal Power Project) (4x270 MW), KTPS - VII (1x800 MW), Damercherala (Yadadri Thermal Power Project) (5x800 MW) and Palamoor - Ranga Reddy (LI scheme) along with additional connectivity to 400/220 KV Dindi SS for taking up the works.

6) An early action is appreciated.

Encl: As above


Director/Transmission & Projects

Copy to

1) Sri Pardeep Jindal, Director (SP&PA), Central Electricity Authority (CEA), RK Puram, Sewa Bhavan, New Delhi-110066

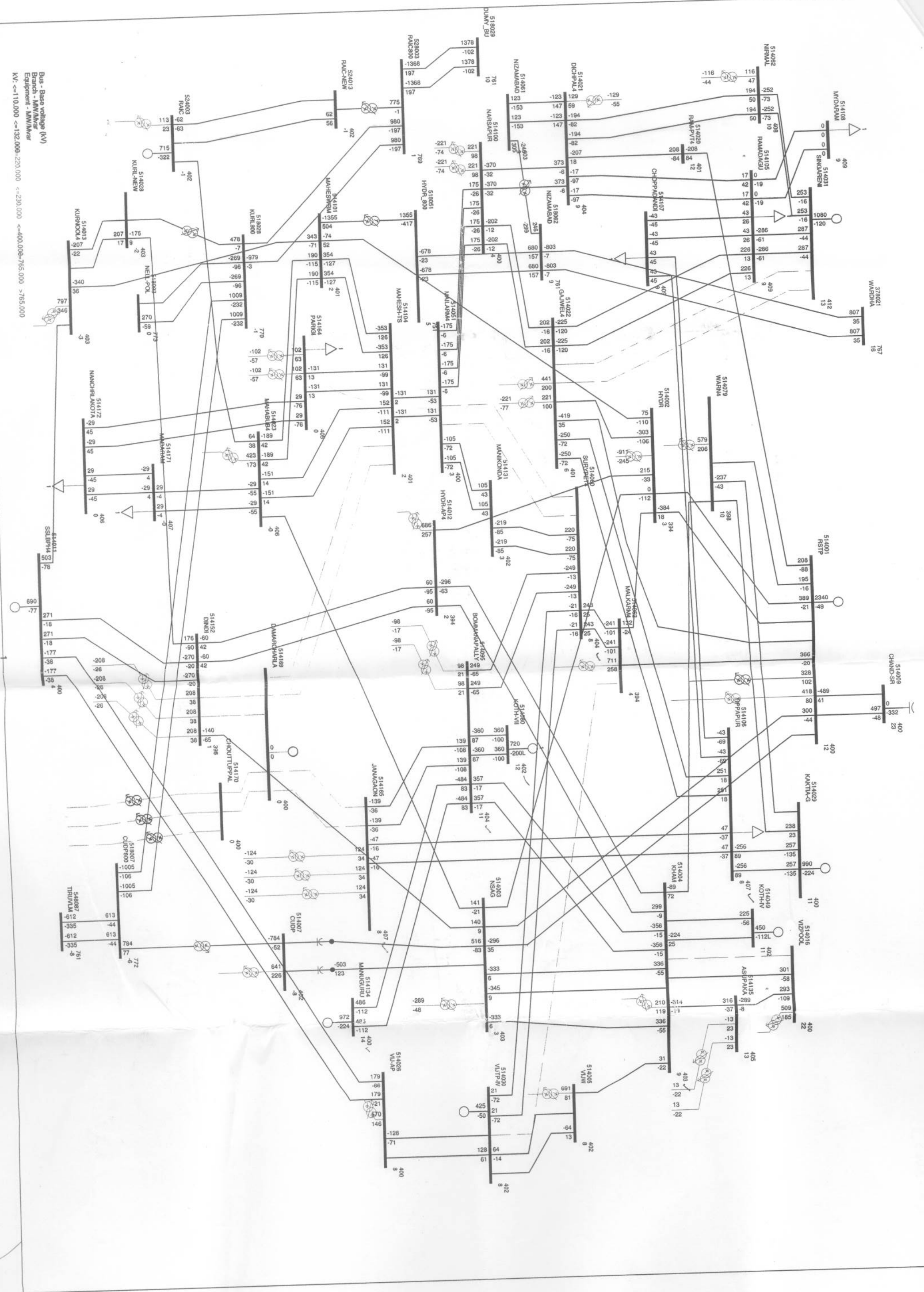
2) Mrs. Seema Gupta, COO/CTU, CORPORATE CENTRE, Power Grid Corporation of India (PGCIL), Sector - 29, Near IFFCO Chowk, Gurgaon, Haryana - 122001.

ZONE TOTALS
IN MW/MVAR

ZONE	FROM GENERATION	TO INDICATED MOTORS	TO LOAD	TO BUS SHUNT DEVICES	TO LINE SHUNT CHARGING	FROM CHARGING	TO LOSSES	NET INTERCHANGE TO TIE LINES TO TIES + LOADS
51	8628.0	0.0	10095.3	0.0	0.0	0.0	229.1	-1696.4
TELANGANA	-836.2	0.0	3397.4	206.4	1796.5	9281.4	2934.7	110.2
COLUMN	8628.0	0.0	10095.3	0.0	0.0	0.0	229.1	-1696.4
TOTALS	-836.2	0.0	3397.4	206.4	1796.5	9281.4	2934.7	110.2

ZONE 51 [TELANGANA] GENERATOR SUMMARY:

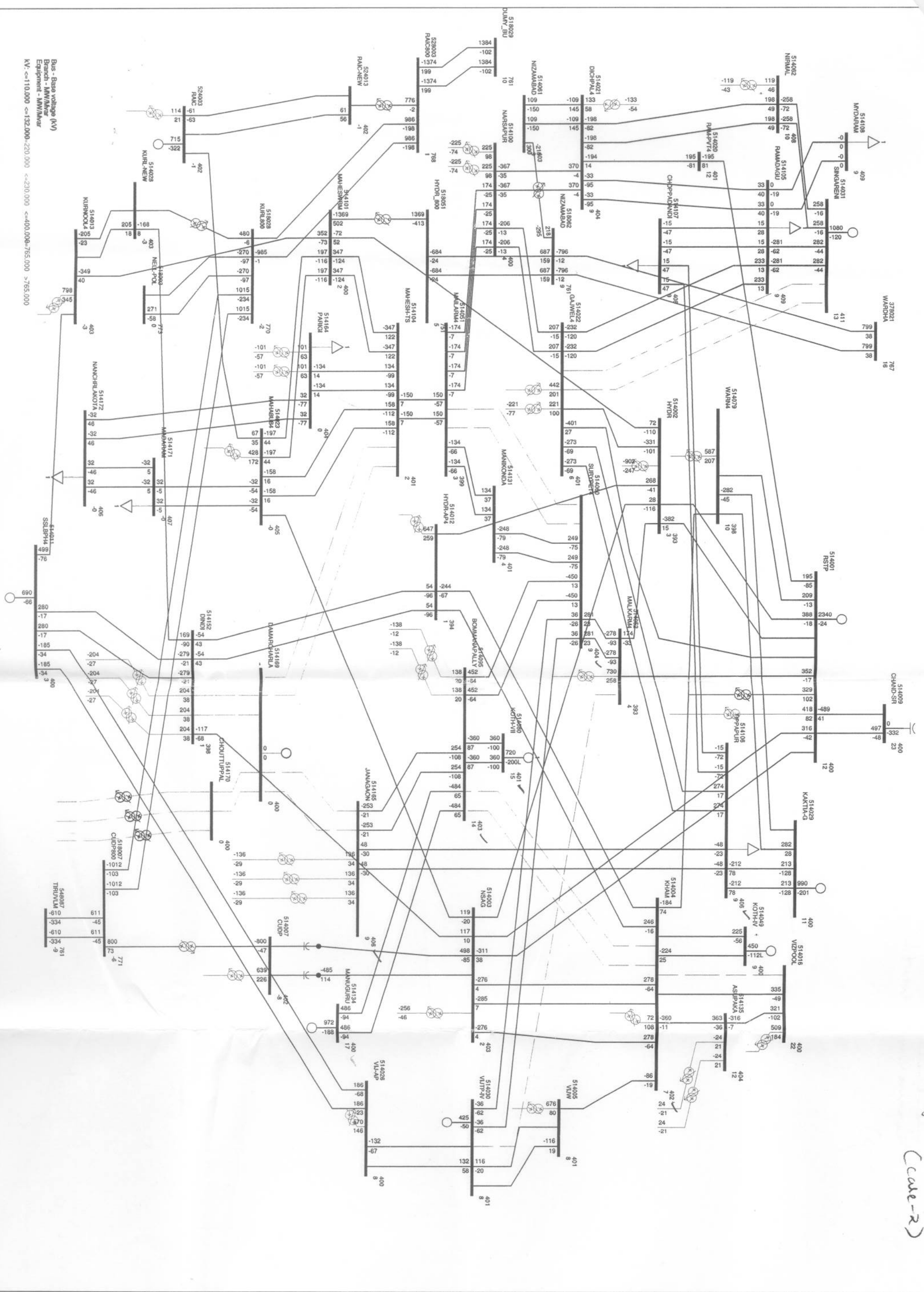
BUS#	X-- NAME	--X BASKV	ON/OFF	# MACH	TYP	MW	MVAR	QMAX	QMIN	VSCHEd	VACTUAL	X-----X BUS# X-- NAME --X BASKV	MVBASE	ZONE	AREA	SWING
512003	NSAG	220.00	3	5	2	204.0	92.1	106.7	-119.8	220.00	220.00		366.6	51	5	
512049	KOTH	220.00	10	0	2	1062.0	83.7	634.5	-200.0	220.00	220.00		1434.2	51	5	
512158	NAVA BHARAT	220.00	1	0	2	120.0	-6.0	75.0	-15.0	220.00	220.00		176.0	51	5	
514001	RSTP	400.00	7	0	2	2340.0	-49.2	1300.0	-260.0	400.00	400.00		3057.0	51	5	
514011	SSLBPH4	400.00	6	0	2	690.0	-77.1	293.0	-326.1	400.00	400.00		1002.0	51	5	
514029	KAKTIA-G	400.00	2	0	-2	990.0	-224.0	450.0	-224.0	400.00	400.03		1294.0	51	5	
514031	SINGARENI	400.00	2	1	-2	1080.0	-120.0	600.0	-120.0	400.00	401.79		1410.0	51	5	
514049	KOTH-IV	400.00	1	0	-2	450.0	-112.0	225.0	-112.0	400.00	401.64		529.0	51	5	
514080	KOTH-VII	400.00	1	0	-2	720.0	-200.0	400.0	-200.0	400.00	402.38		941.0	51	5	
514134	MANUGURU	400.00	4	0	2	972.0	-223.7	540.0	-260.0	400.00	400.00		1268.0	51	5	
SUBSYSTEM TOTALS						8628.0	-836.2	4624.3	-1836.9				11477.8			

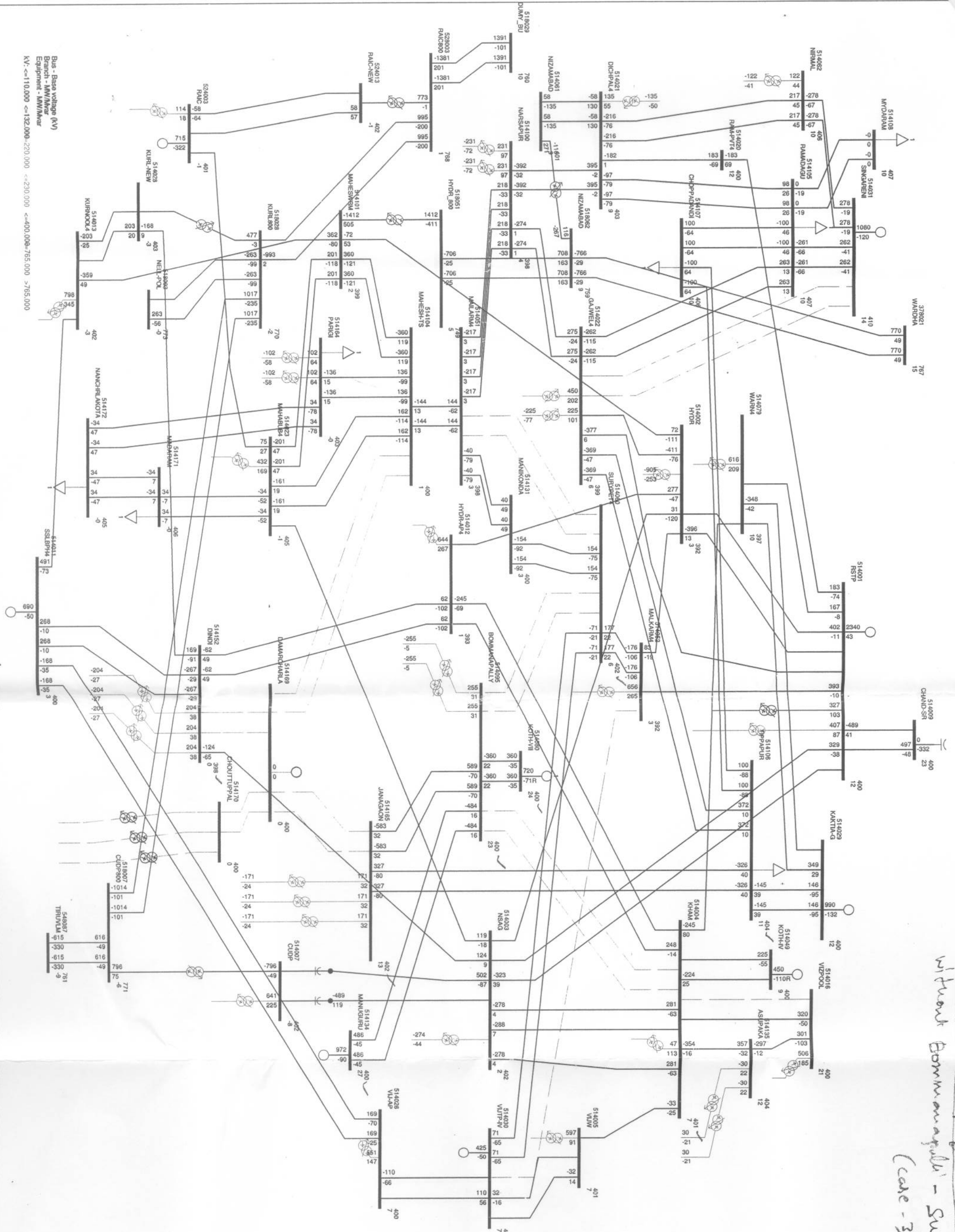


Bus - Base voltage (kV)
 Branch - MW/Mvar
 Equipment - MW/Mvar
 KV: $\leq 110,000$ $\leq 132,000$ $\leq 220,000$ $\leq 230,000$ $\leq 400,000$ $765,000$ > 765,000

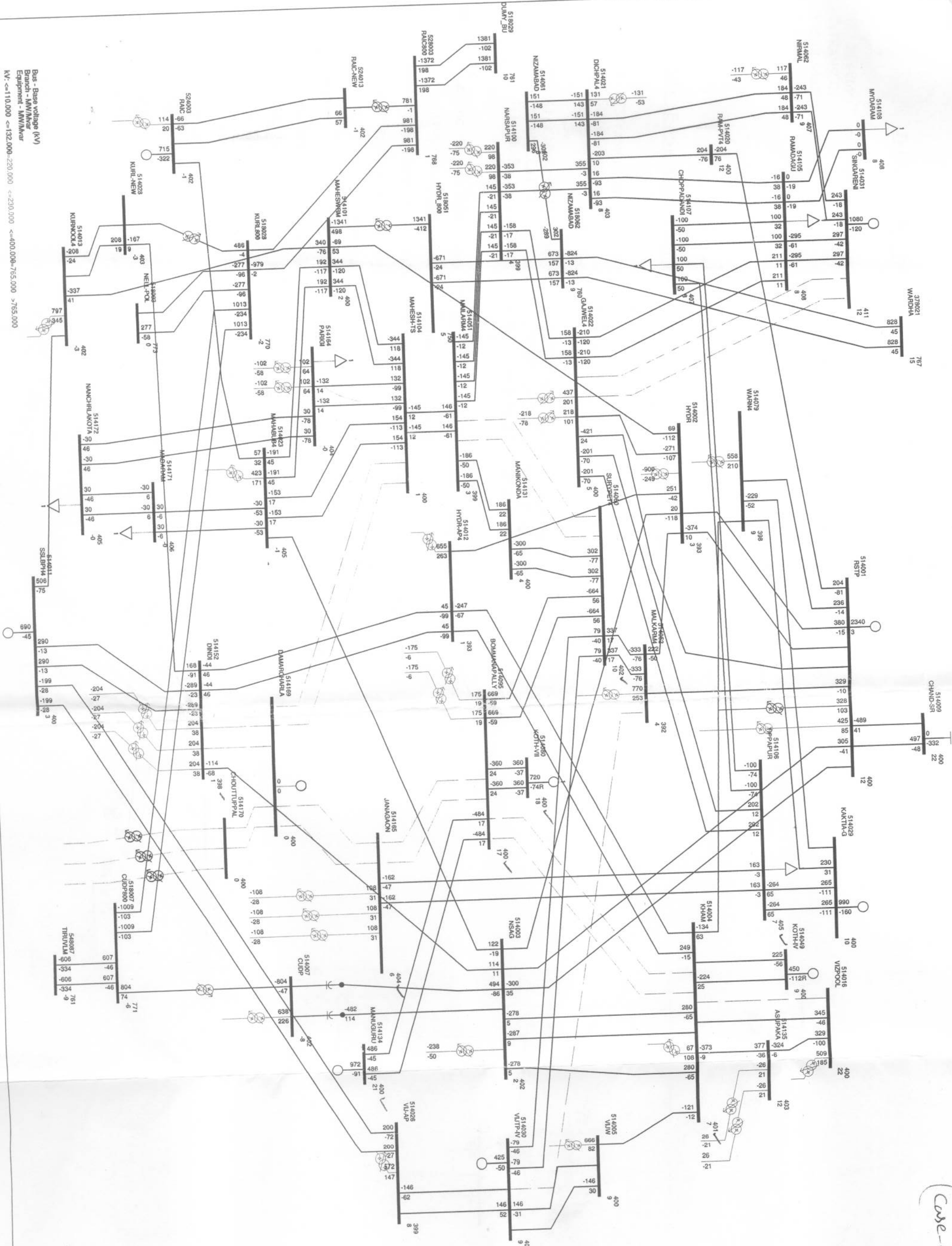
Base case (Case-1)

Without Commencement Blotom (Case-2)





Withou Company - Khamman
 Withou Company - Suruged
 (Case - 3)



Bus - Base voltage (KV)
Branch - MV/MVAr
Equipment - MV/MVAr
KV <= 110.000 <= 132.000 <= 220.000 <= 400.000 > 765.000

(Case-4)

TRANSMISSION CORPORATION OF TELANGANA LIMITED

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Encl: As above


Director/Transmission & Projects

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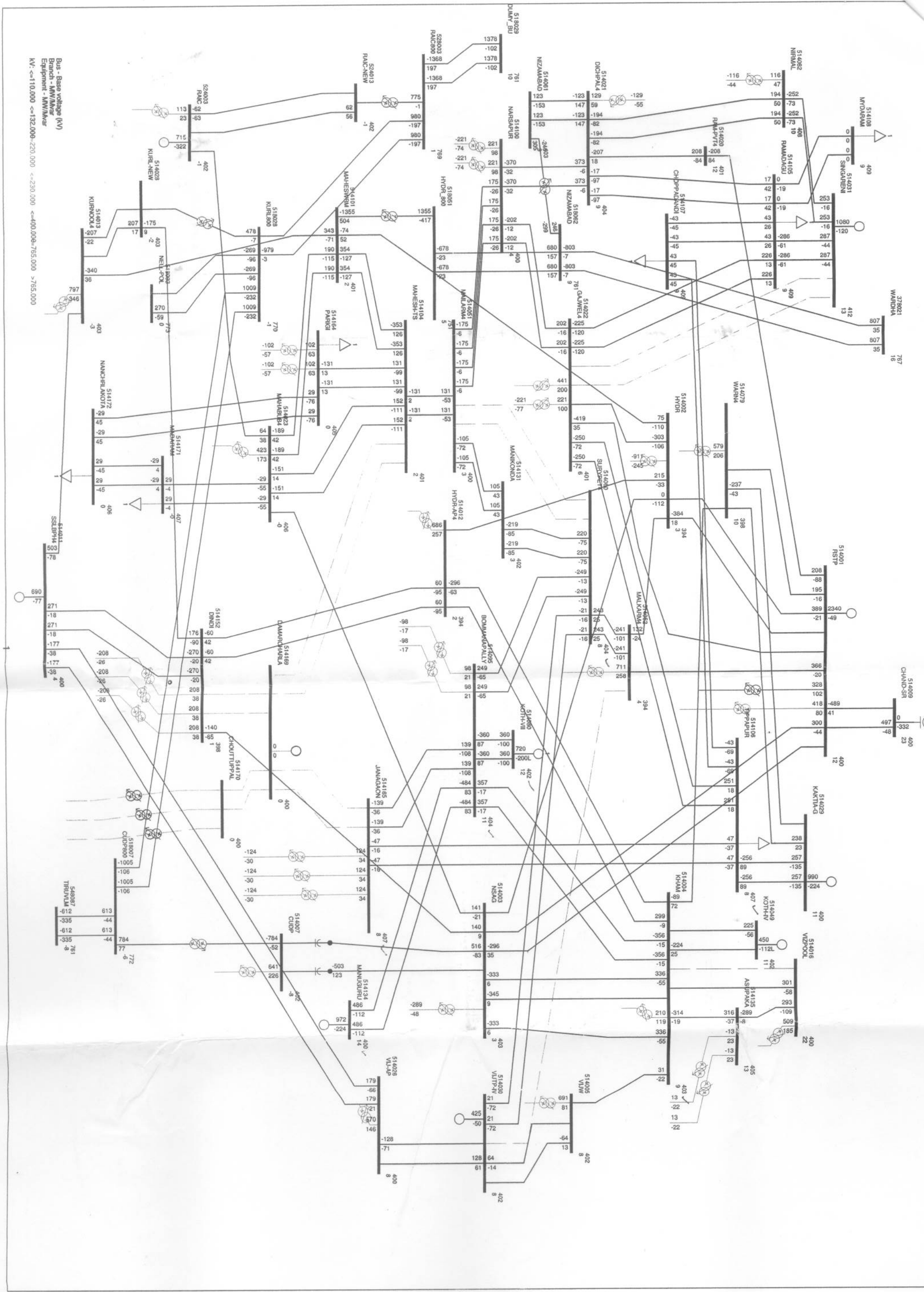
1) Sri Pardeep Jindal, Director (SP&PA), Central Electricity Authority (CEA),
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(PGCIL), Sector - 29, Near IFFCO Chowk, Gurgaon, Haryana - 122001.

ZONE 51 [TELANGANA] GENERATOR SUMMARY:

BUS#	X-- NAME	--X BASKV	ON/OFF	TYP	MW	MVAR	OMAX	QMIN	VSCHED	VACTUAL	BUS#	X-- NAME	--X BASKV	MVABASE	ZONE	AREA	SWING	
512003	NSAG	220.00	3	5	2	204.0	106.7	-119.8	220.00	220.00				366.6	51	5		
512049	KOTH	220.00	10	0	2	1062.0	634.5	-200.0	220.00	220.00				1434.2	51	5		
512158	NAVA BHARAT	220.00	1	0	2	120.0	75.0	-15.0	220.00	220.00				176.0	51	5		
514001	RSTP	400.00	7	0	2	2340.0	1300.0	-260.0	400.00	400.00				3057.0	51	5		
514011	SSLBPH4	400.00	6	0	2	690.0	293.0	-326.1	400.00	400.00				1002.0	51	5		
514029	KAKTIA-G	400.00	2	0	-2	990.0	450.0	-224.0	400.00	400.00				1294.0	51	5		
514031	SINGARENI	400.00	2	1	-2	1080.0	600.0	-120.0	400.00	411.79				1410.0	51	5		
514049	KOTH-IV	400.00	1	0	-2	450.0	225.0	-112.0	400.00	401.64				529.0	51	5		
514080	KOTH-VII	400.00	1	0	-2	720.0	400.0	-200.0	400.00	402.38				941.0	51	5		
514134	MANUGURU	400.00	4	0	2	972.0	540.0	-260.0	400.00	400.00				1268.0	51	5		
SUBSYSTEM TOTALS													8628.0	4624.3	-1836.9			11477.8

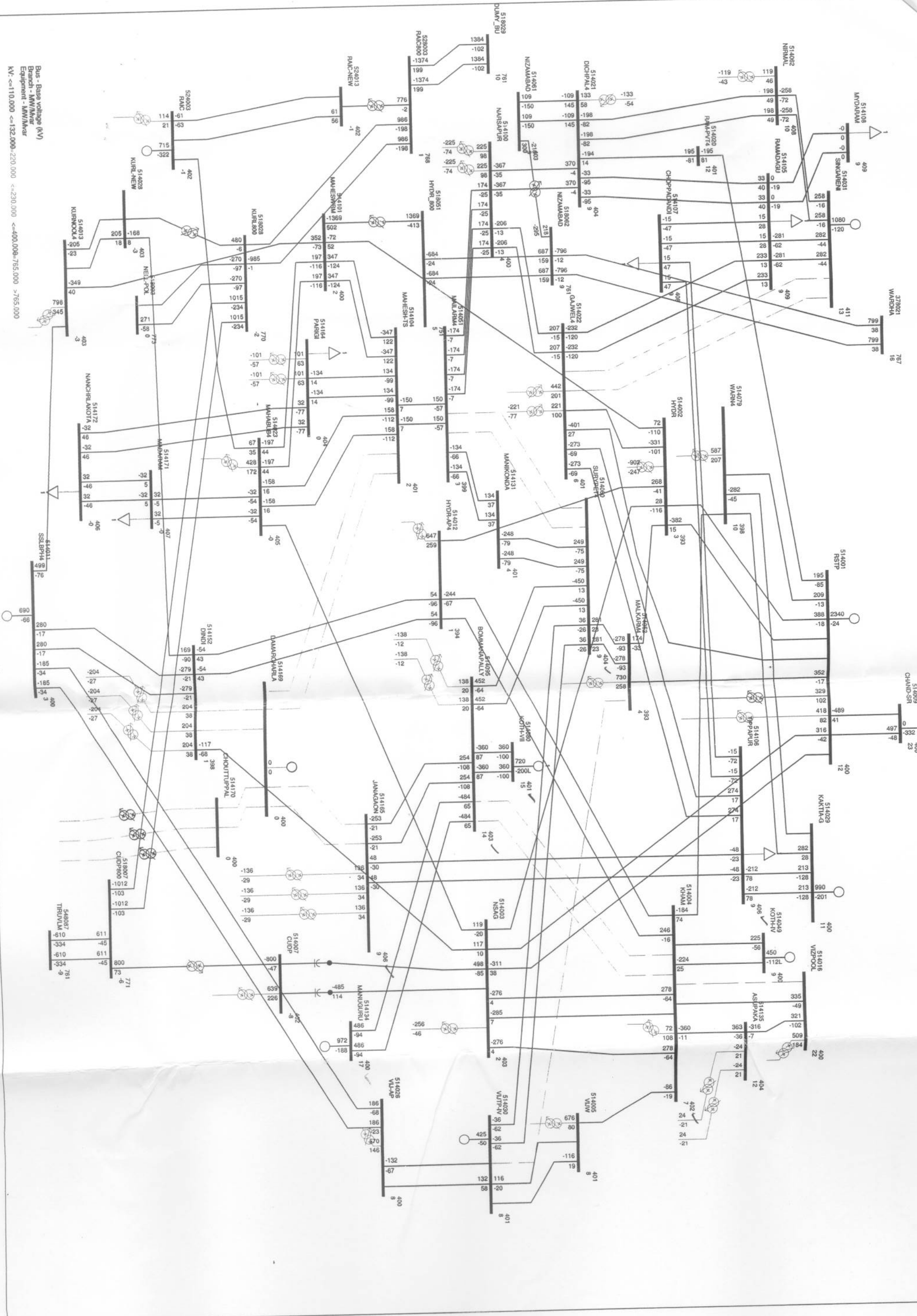
X----- REMOTE BUS -----X
BUS# X-- NAME --X BASKV



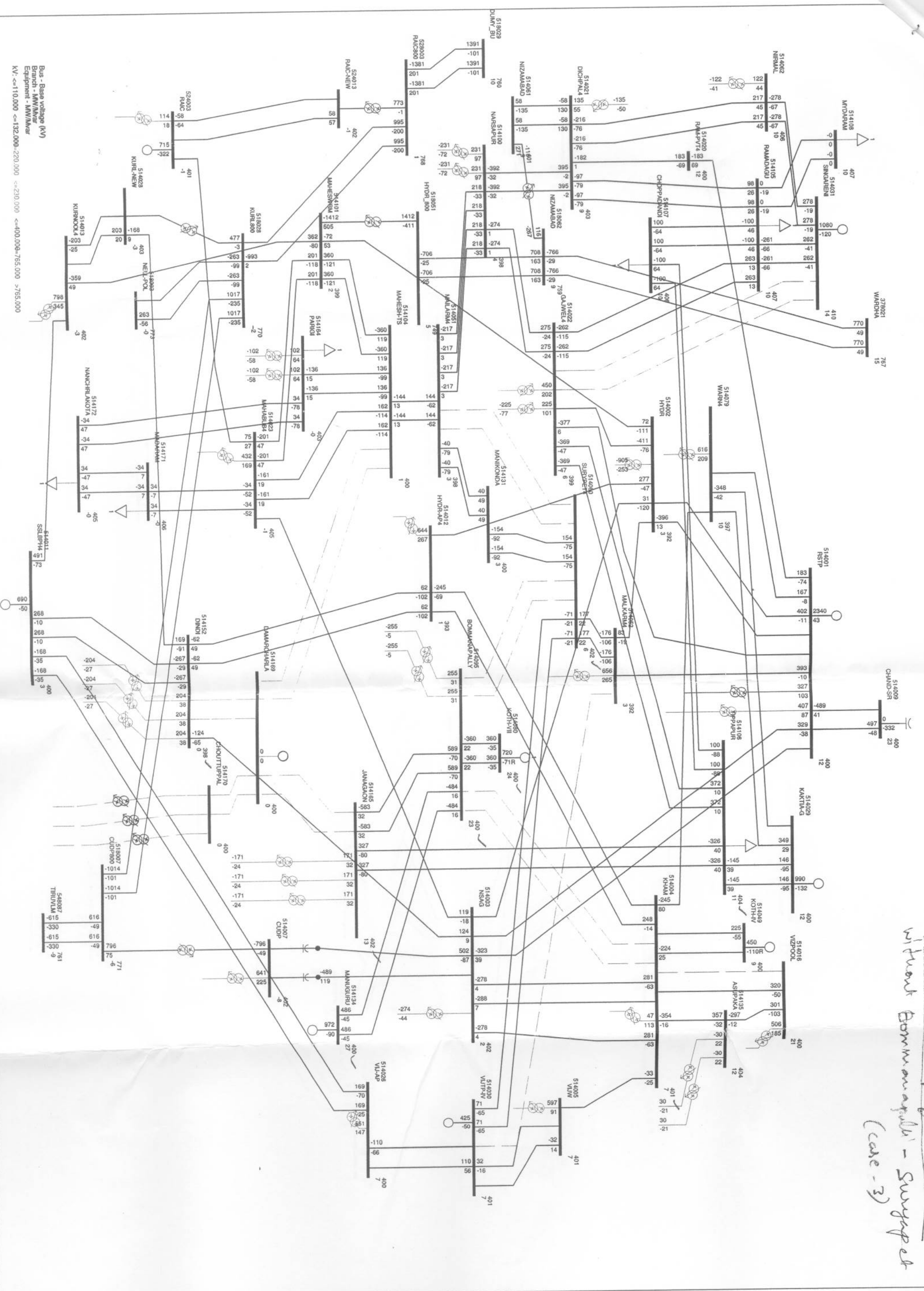
Bus - Base voltage (kV)
 Branch - MV/MVAr
 Equipment - MV/MVAr
 KV: <=110.000 <=132.000 <=220.000 <=230.000 <=400.000 <=765.000 >765.000

Base case (case-1)

Without Bommanpally Blawana (Case-2)



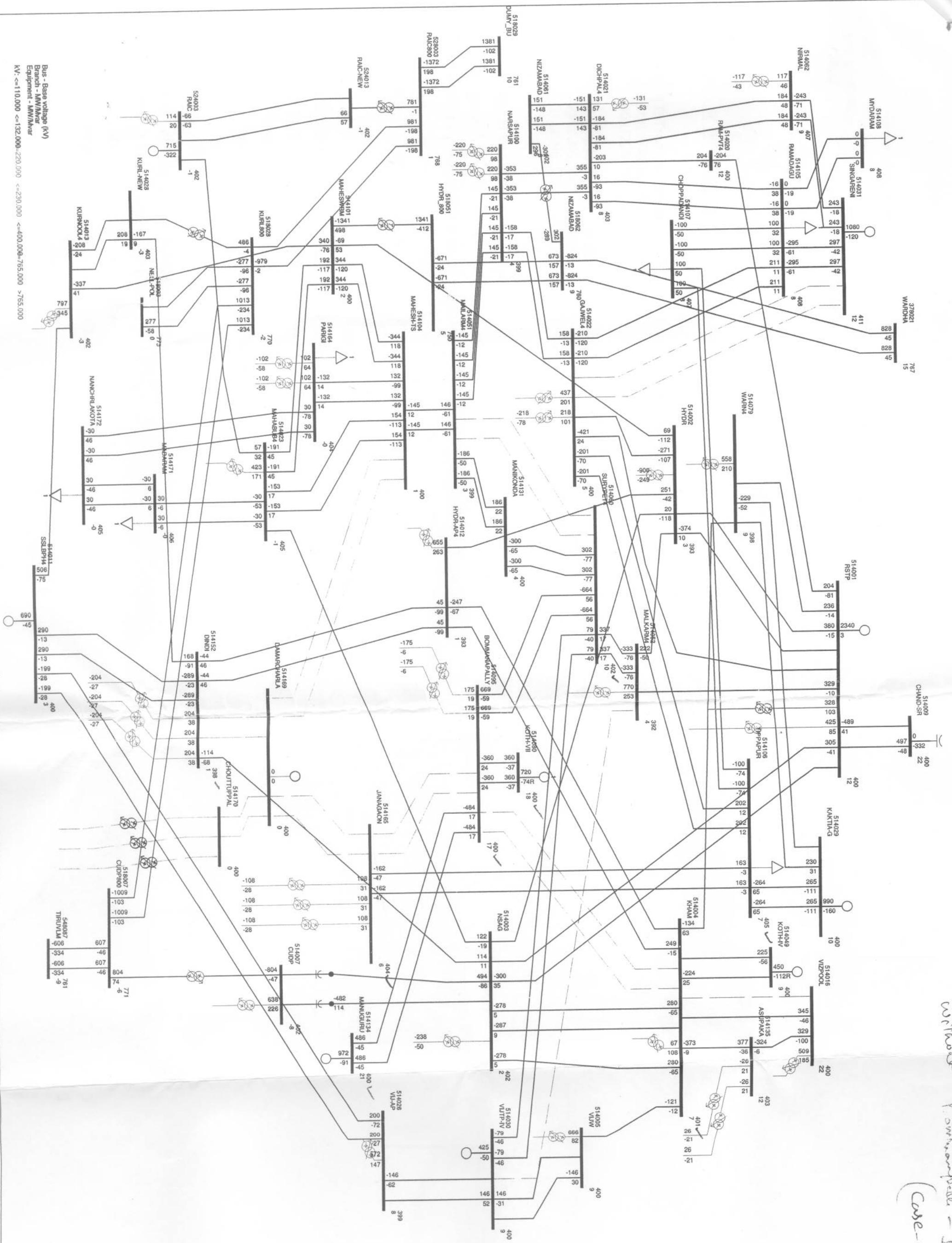
Bus - Base voltage (KV)
Branch - MW/Mvar
Equipment - MW/Mvar
KV <-110,000 <-132,000 <-220,000 <-230,000 <-400,000 <-765,000 >765,000



Bus - Base voltage (kV)
 Branch - MM/Mvar
 Equipment - MM/Mvar
 KV: <=110.000 <=132.000 <=220.000 <=400.000 <=765.000

With out Command only - Khamman
 From manaripali - Surugapet
 (Case - 3)

Bus - Base voltage (kV)
 Branch - MV/MVAr
 Equipment - MV/MVAr
 KV <= 110.000 <= 132.000 <= 220.000 <= 400.000 > 765.000



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