GOVERNMENT OFARUNACHAL PRADESH
DEPARTMENT OF POWER

NO.CE/TPMZ/W-05/2013-14/ 63-92 **Dated :** 2/5/13

To

The Secretary (Power),
Govt. of Arunachal Pradesh,
Jal Vidyut Bhawan, Itanagar.

Sub:- ***Summary Record of Discussion of CEA and POWERGRID team with Department of Power, Govt. of A. P. to revise the Transmission, Sub Transmission and Distribution works in Arunachal Pradesh.***

Sir,

Enclosed Please find herewith a Summary Record of Discussion held with CEA and POWERGRID team on **30th April 2013 & 1st May 2013** regarding revised scope of works for Transmission, Sub Transmission and Distribution system in Arunachal Pradesh for your information and further needful action please.

Yours faithfully,

Enclo:- As stated above.

Chief Engineer (Power),

NO.CE/TPMZ/W-05/2013-14/ 63-92 **Dated :** 2/5/13

Copy to:-

1) The Chief Engineer (P), EEZ / CEZ / WEZ, Vidyut Bhawan, Itanagar for information along with a copy of summary record of discussion.
2) All the Superintending Engineers (E), under Department of Power, Arunachal Pradesh for information along with a copy of summary record of discussion.
3) All the Executive Engineers (E), under Department of Power, Arunachal Pradesh for information along with a copy of summary record of discussion.
4) In – charge, IT Cell, TPMZ for information along with a copy of summary record of discussion for uploading to the official web portal.

Chief Engineer (Power),

OFFICE OF THE CHIEF ENGINEER (POWER), TRANSMISSION, PLANNING & MONITORING ZONE

VIDYUT BHAWAN, ITANAGAR – 791111, www.arunachalpower.org.in,
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Comprehensive scheme for Strengthening of Transmission & Distribution system in NER & Sikkim

Summary Record of Discussion of CEA and POWERGRID team with Department of Power, Govt. of Arunachal Pradesh to revise the transmission, sub-transmission and distribution works in Arunachal Pradesh held on 30th April & 1st May, 2013 at Vidyut Bhawan, Itanagar, Arunachal Pradesh

List of participants is enclosed at **Annexure-1**.

Chief Engineer (Power), Govt. of Arunachal Pradesh welcomed the participants and briefed about various aspects involved in strengthening of transmission & distribution system in Arunachal Pradesh. He informed that the scheme was conceived as a consequence of Pasighat Proclamation on Power and he was a member of the sub-group constituted under the chairmanship of Member (PS), CEA. He added that Arunachal Pradesh has the largest area among all NER states and has the lowest population density. In that way, requirements of Arunachal Pradesh are peculiar as compared to other states of NER & Sikkim.

Director, CEA informed that the scheme was earlier finalized in year 2010 and accordingly POWERGRID prepared and submitted the DPR for the same. Recently, in a meeting held in the Ministry of Power, Govt. of Arunachal Pradesh informed that since the scheme was finalized long back and some of works might have been covered under centrally sponsored scheme such as APDRP / RGGVY consequently, there might be some addition / deletion in scope of works covered under the scheme. Accordingly, Ministry of Power directed that a team of CEA & POWERGRID should visit Itanagar and revise the scope of works to be covered under the comprehensive scheme in consultation with Department of Power, Govt. of Arunachal Pradesh.

Thereafter, scope of works covered under the comprehensive scheme was discussed element-wise and revised accordingly. The revised scope of works for transmission along with inter se priority and corresponding distribution system is enclosed at **Annexure-2 & 3** respectively.

1/5/13
(Ravinder Gupta)
Director, CEA

(RAMCHANDRA)
CM, POWERGRID
GURGAON
01.05.2013

Chief Engineer (P)
Transmission, Plg. & Mng. Zone
Vidyut Bhawan, DoP, Itanagar

Annexure-I

ATTENDANCE SHEET

Sub:- Comprehensive Scheme for Transmission & Sub-Transmission Schemes

Venue: CE, TP&MZ Office Chamber,

MEETING DATE : 30/04/2013 & 01/05/2013

Sl.No.	Name of Officers	Signature
1	Ravinder Gupta Director CEA	
2	ATUL AGARWAL DGM POWERGRID	9910378059
3	Soniram Das Manager, POWERGRID, SHG.	
4	Amaikanti Das. Ch. Mgr, POWERGRID, Nirjuli	
5	RAMCHANDRA CHIEF MANAGER, POWERGRID, GURGAON	
6	Rubu Tago SE(E) Nlg.	
7	Gyati Tada SE(O) HQ, NEZ,	
8	Katem Libang SW(RE) EEZ	
9	R. Singh, Dlman	
10	PEMA WANGYAL (E.E)	
11	T. Mara CE(P) CEZ	
12	Anup Penne CE(P) TPM	
13	O. Mayong EE(P) EEZ.	
14		
15		

Chief Engineer (P)
Transmission, Plg. & Mng. Zone
Vidyut Bhawan, DoP, Itanagar

Annexure-2 (1/2)

SCOPE OF WORKS FOR COMPREHENSIVE SCHEME FOR STRENGTHENING OF TRANSMISSION & DISTRIBUTION SYSTEM IN NER & SIKKIM
ARUNACHAL PRADESH - REVISED AT ITANAGAR ON 30-04-2013

Phase-I

A : TRANSMISSION LINE	kV	Ckt.	Km.	Remarks	Inter Se Priority
Niglok - Pasighat New (Napit)	132	S/c on D/c	30		1
Pasighat New (Napit) - Pasighat Old	132	D/c	15		1
Khupi – Seppa	132	S/c on D/c	60		2
Seppa-Rilo	132	S/c on D/c	50		3
Rilo-Sagali	132	S/c on D/c	55		3
Sagali-Naharlagun	133	S/c on D/c	45		4
Naharlagun – Gerukamukh	132	S/c on D/c	90	Arunachal Pradesh requested that Naharlagun – Niglok section be constructed on 400 kV towers and initially charged at 132kV	5
Gerukamukh – Likabali	132	S/c on D/c	60		6
Likabali – Niglok	132	S/c on D/c	75		7
Deomali – Khonsa	132	S/c	40	Some 132kV S/c foundations / towers already erected in Deomali-Miao section by Govt. of AP, possibility of utilising the same may be explored during execution	8
Khonsa – Changlang	132	S/c	45		9
Changlang – Jairampur	132	S/c	60		10
Jairampur - Miao	132	S/c	40		11
Miao - Namsai (PG)	132	S/c on D/c	45		12
Tezu (PG) – Halaipani	132	S/c on D/c	100		13
Naharlagun – Banderdewa	132	S/c on D/c	25		14
Chimpu (Itanagar)- Holongi	132	S/c on D/c	20		15

B : SUB-STATION	Trf	No	MVA	Total		
New S/S						
Niglok	132/33	2	31.5	63.00		1
Pasighat New (Napit)	132/33	2	10.0	20.00		1
Seppa	132/33	7	5.0	30.00		2
Rilo	132/33	4	5.0	15.00		3
Sagali	132/33	7	5.0	30.00		3
Naharlagun	132/33	2	31.5	63.00		4
Gerukhamukh	132/33	4	5.0	15.00		5
Likabali	132/33	4	5.0	15.00		6
Khonsa	132/33	7	5.0	30.00		8
Changlang	132/33	7	5.0	30.00		9
Jairampur	132/33	7	5.0	30.00		10
Miao	132/33	7	5.0	30.00		11
Halaipani	132/33	4	5.0	15.00		13
Banderdewa	132/33	2	31.5	63.00		14
Holongi	132/33	2	10.0	20.00		15

Chief Engineer (P)
Transmission, Plg. & Mng. Zone
Bhawan, DoP, Itanagar

Annexure - 2
(2/2)

Phase-II						
A : TRANSMISSION LINE	**kV**	**Ckt.**	**Km.**	**Remarks**		**Inter Se Priority**
Ziro – Palin	132	S/c on D/c	50			**16**
Palin – Koloriang	132	S/c on D/c	75			**17**
LILO of Daporijo - Along 132kV S/c at Basar	132	D/c	5			**18**
Roing (PG) – Anini	132	S/c on D/c	125	initially charged at 33 kV		**19**
Along – Kambang	132	S/c on D/c	40			**20**
Kambang - Mechuka	132	S/c on D/c	130	initially charged at 33 kV		**20**
Along - Yingkiong	132	S/c on D/c	100			**21**
Yingkiong - Tuting	132	S/c on D/c	125	initially charged at 33 kV		**22**
Ziro (PG) - Ziro New	132	D/c	2			**23**
Tawang - Lumla	132	S/c on D/c	40	initially charged at 33 kV		**24**
Daporijo - Nacho	132	S/c on D/c	85	initially charged at 33 kV		**25**
Khonsa - Longding	132	S/c on D/c	45	initially charged at 33 kV		**26**
Roing - Dambuk	132	S/c on D/c	40			**27**
Pasighat Old - Mariyang	132	S/c on D/c	80	initially charged at 33 kV		**28**
Rilo - Seijosa	132	S/c on D/c	60			**29**
Seppa - Bameng	132	S/c on D/c	60			**30**
B : SUB-STATION	**Trf**	**No**	**MVA**	**Total**		
Palin	132/33	4	5.0	15.00		**16**
Koloriang	132/33	4	5.0	15.00		**17**
Basar	132/33	4	5.0	15.00		**18**
Yingkiong	132/33	4	5.0	15.00		**21**
Kambang	132/33	4	5.0	15.00		**20**
Ziro New	132/33	4	5.0	15.00		**23**
Dambuk	132/33	4	5.0	15.00		**27**
Seijosa	132/33	4	5.0	15.00		**29**
Bameng	132/33	4	5.0	15.00		**30**
Augmentation						
Daporijo	132/33	4	5.0	15.00		**31**

Chief Engineer (P)
Transmission, Plg. & Mng. Zone
Vidyut Bhawan, DoP, Itanagar

Comprehensive Scheme for Strengthening of Transmission & Distribution System in NER
(New 33/11 kV Substation proposed for Arunachal Pradesh)
As discussed on 30.04.2013

Sl No		District	Name of Substation	Capacity	No of I/C	Remarks	Feeding arrangement	Length	New Bay Requirement	
1	1	Anjaw	Halaipani	2x2.5 MVA		in campus of proposed 132/33 kV Halaipani S/s	from proposed 132/33 kV Halaipani S/s			
2	2	Anjaw	Hawai	2x2.5 MVA	2 (1 for proposed 132/33 kV Halaipani s/s& 1 for proposed 33/11 kV Wallong S/s)	from proposed 132/33 kV Halaipani legth is 30 km	from proposed 132/33 kV Halaipani	30	bay to be included at proposed 132/33 kV Halaipani S/s	proposed 33/11 kV Wallong S/s- proposed with Wallong s/s
3	3	Anjaw	Wallong	2x2.5 MVA	1 (for Hawai)	Hawai-Wallong line is 50 km long	from proposed Hawai 33 kV s/s	50	Bay at Hawai already taken with Hawai s/s	
4	1	Changlang	Changlang	2x5 MVA		in campus of proposed 132/33 kV s/s at Changlang	from proposed 132/33 kV s/s at Changlang			
5	2	Changlang	Diyun	2x2.5 MVA	2 (1 for proposed 132/33 kV Miao & 1 for 132/33 kV Namsai DS/s which is under const.)	1 river crossing; 30 kms from Namsai & 15 kms from Miao	from proposed 132/33 kV Miao & 132/33 kV Namsai DS/s which is under const.	45	bay to be included at proposed 132/33 kV s/s at Miao	bay to be included at 132 kV s/s at Namsai (u/c by PGCIL)
6	3	Changlang	Kharsang	2x2.5 MVA	1 (for proposed 132/33 kV Miao S/s)		from proposed 132/33 kV Miao S/s	40	bay to be included at proposed 132/33 kV s/s at Miao	
7	4	Changlang	Khimiyong	2x2.5 MVA	1 (for proposed 132/33 kV Changlang S/s)		from proposed 132/33 kV Changlang S/s	40	bay to be included at proposed 132/33 kV s/s at Changlang	
8	5	Changlang	Manmao	2x2.5 MVA	1 (for proposed 132/33 kV Jairam Pur S/s)		from proposed 132/33 kV Jairam Pur S/s	25	bay to be included at proposed 132/33 kV s/s at Jairam Pur	
9	1	Dibang Valley	Anini	2x2.5 MVA	1 (for proposed 132/33 kV Roing S/s)	132 kV line from (under const.) 132/33 kV Roing S/s to proposed 33/11 kV S/s at Anini cahrged at 33 kV	from (under const.) 132/33 kV Roing S/s		bay to be included at (under const.) 132/33 kV Roing S/s	
10	2	Dibang Valley	Etalin	2x2.5 MVA	2 (for LILO of 132 kV Roing-Anini line which will be charged at 33 kV)		from (under const.) 132/33 kV Roing S/s			
11	1	East Kameng	Bana	2x2.5 MVA	2 (for Seppa & khuppi)	2 km DC Line for LILO	LILO of Khuppi - Seppa 33 kV line	2	No remote bay	
12	2	East Kameng	Seijosa	2x5 MVA			In campus of proposed 132/33 kV S.s at Sejosa			
13	3	East Kameng	Rilo	2x2.5 MVA			In campus of proposed 132/33 kV S.s at Rilo			
14	4	East Kameng	Khenwa	2x2.5 MVA	1 (for 33/11 kV existing S/s at Bameng)		from 33/11 kV existing S/s at Bameng	25	bay reqd at 33/11 kV existing Bameng S/s	
15	5	East Kameng	Pipu	2x2.5 MVA	132/33 kV proposed S/s at Seppa		From 132/33 kV proposed S/s at Seppa	30	bay reqd at 132/33 kV proposed S/s at Seppa	

Chief Engineer (P)
Transmission, Plg. & Mng. Zone
Vidyut Bhawan, DoP, Itanagar

Comprehensive Scheme for Strengthening of Transmission & Distribution System in NER
(New 33/11 kV Substation proposed for Arunachal Pradesh)
As discussed on 30.04.2013

Sl No		District	Name of Substation	Capacity	No of I/C	Remarks	Feeding arrangement	Length	New Bay Requirement	
16	1	East Siang	Koreng	2x2.5 MVA	4 (2 for Passighat & Along and 1 for Geku HEP & Boleng)	5 km DC Line for LILO	from LILO of Passighat - Along existing 33 kV line	5 D/C	Bay at Boleng taken with Boleng s/s	Lenghth of Koreng-Boleng lione
17	2	East Siang	Boleng	2x2.5 MVA	3 (1 for Gengging and 1 for Along & Koreng)	5 km DC Line for LILO	from LILO of Gengging - Along existing 33 kV line	5 D/C	Bay at Koreng taken with Koreng s/s	
18	3	East Siang	Mebo	2x5 MVA	2 (for old Passighat & Ngopok s/s)	1 river crossing is there	from existing 132 kV s/s at Passighat	10	132 kV s/s at Passighat (bay available)	
19	4	East Siang	Ngopok	2x2.5 MVA	1 (for proposed 33/11 kV Mebo S/s)		from proposed 33/11 kV Mebo S/s	30	Bay reqd at proposed 33/11 kV Mebo S/s included in Mebo s/s proposal	
20	5	East Siang	All India Radio, Passighat	2x2.5 MVA	1 (for proposed 33/11 kV Napit S/s)			7	Bay reqd at proposed 33/11 kV Napit S/s - added with Nampit s/s	
21	6	East Siang	Oyan	2x2.5 MVA	2 (for proposed 132/33 kV Passighat S/s, 1 for Ruksin s/s)		from proposed 132/33 kV Passighat S/s	25	Bay reqd at proposed 132/33 kV Passighat S/s: Ruksin bay taken with Ruksin s/s	
22	7	East Siang	Koyu	2x2.5 MVA	3 (1 for proposed 132/33 kV Passighat S/s, 1 for niglok proposed 33/11 kV s/s and 1 for Rina HEP)		Koyu-Rina HEP (7 kms); New Passighat - Koyu (45 kms); Niglok proposed 132/33 kV s/s (25 kms)	77	Bay available at Rina HEP only; to be taken at 132/33 kV s/s at passighat & niglok	
23	8	East Siang	Napit	2x5 MVA	2 (for proposed 132/33 kV Passighat S/s & AIR s/s)	Line from AIR taken with AIR s/s	from proposed 132/33 kV Passighat S/s	2	Bay reqd at proposed 132/33 kV Passighat S/s; Bay taken at AIR s/s	
24	9	East Siang	Nari	2x2.5 MVA	1 (for proposed 132/33 kV Niglok S/s)		from proposed 132/33 kV Niglok S/s	40	Bay to be included at proposed 132/33 kV Niglok S/s reqd.	
25	10	East Siang	Ruksin	2x2.5 MVA	1 (for proposed 33/11 kV Oyan S/s)		from proposed 33/11 kV Oyan S/s	15	Bay reqd at 33/11 kV proposed s/s at Oyan - Taken with Oyan S/s	
26	1	Kurukumey	Tali	2x2.5 MVA	1 (for proposed 132/33 kV Palin S/s)		Proposed Palin 132/33 kV s/s	60	Bay to be included at proposed 132/33 kV Palin S/s reqd.	
27	2	Kurukumey	Nyapin	2x2.5 MVA	1 (for existing 33 kV Sangram S/s)		from existing 33 kV Sangram S/s	30	Bay Reqd at existing 33 kV Sangram S/s	
28	1	Lohit	Choukham	2x5 MVA	1 (for 132/33 kV Namsai under cosnt by PGCIL)		from 132/33 kV Namsai under cosnt by PGCIL	25	Bay to be included at 132/33 kV Namsai under cosnt by PGCIL	
29	2	Lohit	Namsai	2x5 MVA	1 (for 132/33 kV Namsai under cosnt by PGCIL)		from 132/33 kV Namsai under cosnt by PGCIL	10	Bay to be included at 132/33 kV Namsai under cosnt by PGCIL	
30	1	Lower Dibang valley	Bijari	2x2.5 MVA	1 (for proposed 132/33 kV Dambuk S/s)		from proposed 132/33 kV Dambuk S/s	45		bay to be included at proposed 132/33
31	2	Lower Dibang valley	Bolung	2x2.5 MVA	1 (for proposed 132/33 kV Roing S/s)		from proposed 132/33 kV Roing S/s	30		bay to be included at proposed 132/33
32	1	Lower Subansiri	Hapoli	2x5 MVA	1 (for proposed 132/33 kV s/s at Ziro New)		From proposed 132/33 kV s/s at Ziro new	6	Bays at proposed 132/33 kV s/s at Ziro new	
33	2	Lower Subansiri	Yazali	2x5 MVA	1 (for proposed 132/33 kV s/s at Ziro new)		From proposed 132/33 kV s/s at Ziro new	35	Bays at proposed 132/33 kV s/s at Ziro new	
34	3	Lower Subansiri	Raga	2x2.5 MVA	1 (for existing 33/11 s/s at Tamin)		From existing 33/11 s/s at Tamin	15	Bays at existing 33/11 s/s at Tamin available	

Chief Engineer (P)
Transmission, Plg. & Mntg. Zone
Vidyut Bhawan, DoP, Itanagar

Comprehensive Scheme for Strengthening of Transmission & Distribution System in NER
(New 33/11 kV Substation proposed for Arunachal Pradesh)
As discussed on 30.04.2013

Sl No		District	Name of Substation	Capacity	No of I/C	Remarks	Feeding arrangement	Length	New Bay Requirement	
35	4	Lower Subansiri	Gerukamukh	2x2.5 MVA	1 (for proposed 132/33 kV s/s at Gerukamukh)	In campus of proposed 132/33 kV s/s at Gerukamukh				
36	1	Papumpare	AP Secretariate	2x2.5 MVA	1 (for 132/33 kV existing S/s at Chimpu)	Chimpu to Hill top S/C on tower (5kms) and from Hill Top to Secretariate on cable (4 kms)	From 132/33 kV existing S/s at Chimpu	9	bays available at Chimpu	
37	2	Papumpare	Raj Bhawan	2x5 MVA	1 (for 132/33 kV existing S/s at Chimpu)	Chimpu to Hill top Point S/C on tower (6 kms) and from Hill Top Point to Rajbhawan on cable (2 kms)	From 132/33 kV existing S/s at Chimpu	8	bays available at Chimpu	
38	3	Papumpare	Gohpur Tinali	2x2.5 MVA	2 (for 132/33 kV existing S/s at Chimpu & 1 for 33/11 kV proposed at Jote))		From 132/33 kV existing S/s at Chimpu	5	bays available at Chimpu; for Jote, taken with Jote s/s	
39	4	Papumpare	Jote	2x5 MVA	1 (for 33/11 kV proposed s/s at Gohpur Tinali)		From 33/11 kV proposed s/s at Gohpur Tinali	22	From 33/11 kV proposed s/s at Gohpur Tinali - taken with Gohpur Tinali s/s	
40	5	Papumpare	Pappu Nallah	2x5 MVA	1 (for proposed 132/33 kV s/s at Naharlagun)		From proposed 132/33 kV s/s at Naharlagun	10	bays required to be included at proposed 132/33 kV s/s at Naharlagun	
41	6	Papumpare	Doimukh	2x5 MVA	1 (for proposed 132/33 kV s/s at Naharlagun)		From proposed 132/33 kV s/s at Naharlagun	10	bays required to be included at proposed 132/33 kV s/s at Naharlagun	
42	7	Papumpare	Leporiang	2x2.5 MVA	existing 33/11 kV S/s at Sagali		From existing 33/11 kV S/s at Sagali	28	Bays available at existing 33/11 kV S/s at Sagali	
43	1	Tawang	Klimtac(Bumla)	2x2.5 MVA	1 (for 132 kV Tawang S/s which is u/c by DOP)		from 132 kV Tawang s/s (under construction by DOP under NLCPR)	40	132 kV Tawang s/s (under construction NLCPR) - DOP will provide bay	
44	2	Tawang	Thimbu	2x2.5 MVA	1 (for Jang existing 33 kV s/s)		from Jang existing 33 kV s/s	45	Bay at Jang existing 33 kV s/s	
45	3	Tawang	Mukta	2x2.5 MVA	1 (for Jang existing 33 kV s/s)		from Jang existing 33 kV s/s	20	Bay at Jang existing 33 kV s/s	
46	4	Tawang	Lumla	2x2.5 MVA	1 (for existing 132/33 kV Tawang s/s)		Proposed 132 kV line (Tawang - Lumla) will be charged at 33 kV	40		
47	1	Tirap	Deomali	2x5 MVA		Replacement of existing 2x1.6 MVA transformer and other switchgear as required ALL EXCEPT LINE IS REQD.	From connectivity point of view, it is an existing s/swith 1 trf.of of 1.6 MVA capacity. Hence no line is required.			
48	2	Tirap	Kanubari	2x2.5 MVA	1 (for existing 220/132/33 kV Deomali s/s)		from existing 220/132/33 kV Deomali s/s	50	bay reqd at existing 220/132/33 kV Deomali s/s	
49	3	Tirap	Khonsa	2x5 MVA		in campus of proposed 132/33 kV Khonsa s/s	from proposed 132/33 kV Khonsa S/s			
50	5	Tirap	Longding	2x2.5 MVA	1 (for proposed 132/33 kV s/s at Khonsa)		From proposed 132/33 kV s/s at Khonsa	45	bay to be included at proposed 132/33 kV Khonsa s/s	

Chief Engineer(P)
Dte. & Mng. Zone

Comprehensive Scheme for Strengthening of Transmission & Distribution System in NER
(New 33/11 kV Substation proposed for Arunachal Pradesh)
As discussed on 30.04.2013

Sl No		District	Name of Substation	Capacity	No of I/C	Remarks	Feeding arrangement	Length	New Bay Requirement	
51	1	Upper Siang	Geku	2x2.5 MVA	1 (for proposed 132/33 kV s/s at Yingkyong)		from proposed 132/33 kV s/s at Yingkyong	45	Bay reqd at proposed 132/33 kV s/s at Yingkyong	
52	2	Upper Siang	Jeying	2x2.5 MVA	1(for old 132/33 passighat s/s)		from existing 132 kV s/s at Passighat	40	Bat reqd at Old passighat s/s	
53	3	Upper Siang	Tuting	2x2.5 MVA	1 (for proposed 132/33 kV s/s at Yingkyong)	Being along the international border with China, it will be an important line. The terrain is also tough. Therefore, it is suggested that this line **may be a 132 kV line** which will be charged on	propposed 132 kV line from proposed 132/33 kV Yingkyong S/s will be charged at 33 kV	150		
54	4	Upper Siang	Maryang	2x2.5 MVA	1 (for proposed 132/33 kV s/s at Yingkyong)		from proposed 132/33 kV s/s at Yingkyong	35	Bay reqd at proposed 132/33 kV s/s at Yingkyong	
55	5	Upper Siang	Jengging	2x2.5 MVA	1 (for proposed 132/33 kV s/s at Yingkyong)		from proposed 132/33 kV s/s at Yingkyong	30	Bay reqd at proposed 132/33 kV s/s at Yingkyong	
56	1	Upper Subansiri	Maro	2x2.5 MVA	1 (for132 kV existing Daporijo s/s)		from 132 kV existing Daporijo s/s	45	bay available at 132 kV existing Daporijo s/s	
57	2	Upper Subansiri	Sippi	2x2.5 MVA	3 (1 each forexisting 132 kV Daporijo and 1 each for proposed 33/11 kV s/s at Tahlia & Giba)		Sippli-Deporijo (18) & Sippli - Thalia (35 kms)		Bay available at Deporijo; Thali & Giba bays taken with respective s/s	
58	3	Upper Subansiri	Thalia	2x2.5 MVA	1 (for proposed 33/11 kV S/s at Sippi)		from proposed 33/11 kV S/s at Sippi	35	Bay at sippi taken with proposed 33/11 kV Sippi S/s	
59	4	Upper Subansiri	Giba	2x2.5 MVA	1 (for proposed 33/11 kV S/s at Sippi)		from proposed 33/11 kV S/s at Sippi	30	Bay at sippi taken with proposed 33/11 kV Sippi S/s	
60	5	Upper Subansiri	Nacho	2x2.5 MVA	1 (for existing 132/33 kV s/s at Deporijo)	proposed 132 kV line from Deporijo to Nacho will be charged at 33 kV	From existing 132/33 kV s/s at Deporijo		33 kV bay at Deporijo available	
61	6	Upper Subansiri	Murimugli	2x2.5 MVA	From existing 132/33 kV s/s at Deporijo		From existing 132/33 kV s/s at Deporijo	30	33 kV bay at Deporijo available	
62	1	West Kameng	Thriziono	2x2.5 MVA	1 (for existing 33 kV Khupi s/s)		from existing 33 kV Khupi s/s	50	Bay reqd at existing 33 kV Khupi s/s	
63	2	West Kameng	Balemu	2x2.5 MVA	1 (for 132/33 kV Tenzing Gaon S/s)		132 kV Tenzing Gaon S/s proposed by DoP	60	Bay available at 132 kV Tenzing Gaon S/s	
64	1	West Siang	Mechuka	2x2.5 MVA		in the campus of 132/33 kV Mechuka S/s which will be charged at 33 kV	From proposed 132/33 kV s/s at Mechuka (charged at 33 kv)			
65	2	West Siang	Tirbin	2x2.5 MVA	1 (for proposed 132/33 kV s/s at Basar)		from proposed 132/33 kV s/s at Basar	35	Bay reqd at proposed 132/33 kV s/s at Basar	
66	3	West Siang	Likabali	2x2.5 MVA		In campus of proposed 132/33 kV Likabali s/s	From proposed132/33 kV kv s/s at Lihabali			
67	4	West Siang	Kaying	2x2.5 MVA	1 (for proposed 132/33 kV s/s at Kambang)		from proposed 132/33 kV s/s at Kambang	40	Bay reqd at proposed132/33 kV kv s/s at Kambang	
68	5	West Siang	Gensi	2x2.5 MVA	1 (for proposed 33/11 kv s/s at Igo)		From proposed 33/11 kv s/s at Igo	35	Bay rqd at proposoed 33/11 KV s/s at Igo- taken with Igo S/s	
69	6	West Siang	Rumgong	2x2.5 MVA	1 (for existing 132/33 kV s/s at Along)		From existing 132/33 kV s/s at Along	25	Bay reqd at existing 132/33 kV s/s at Along	
70	7	West Siang	Igo	2x2.5 MVA	2(1 for proposed 132/33 kV s/s at Basar & 1 for proposed 33/11 kV s/s at Gensi)		From proposed 132/33 kV s/s at Basar	32	Bay reqd at proposed132/33 kV kv s/s at Basar	Bay at Gensi taken with Gensi s/s

Chief Engineer (P)
Transmission, Plg. & Mng. Zon

Comprehensive Scheme for Strengthening of Transmission & Distribution System in NER

(New 33/11 kV Substation proposed for Arunachal Pradesh)

As discussed on 30.04.2013

Sl No		District	Name of Substation	Capacity	No of I/C	Remarks	Feeding arrangement	Length	New Bay Requirement	

Summary of ne Summary of new S/s:

Capacity of S/s	Nos. of S/s	MVA Capacity
2x2.5 MVA	56	280
2x5 MVA with 1 bay	14	140
Total	**70**	**420**

Chief Engineer (P)
Transmission, Plg. & Mng. Zone
Vidyut Bhawan, DoP, Itanagar

1/5/13

Comprehensive Scheme for Strengthening of Transmission & Distribution System in NER

(Augmentation of existing 33/11 kV Substation & Lines proposed for Arunachal Pradesh)

(As discussed on 30.04.2013)

S/s Augmentation:

S.No.	S/s Name	Existing Capacity	New Capacity	Remarks
1	Roing	2x1.6	2x5	Replace both 1.6 MVA existing trf. With new 5 MVA trf.
2	Tezu	2x2.5	2x 2.5 +1x5	add 1x5 MVA trf.
3	33/11 kV Miao	1x1.6	2x2.5	Add 2x2.5 MVA trf.
4	33/11 kV Simari	1x1.6	2x5	Add 2x2.5 MVA trf.
5	33/11 kV Wakro	1x1.6	2x5	Add 2x2.5 MVA trf.
6	33 kV Hayuliang S/s	1x1.6	2x2.5	Add 2x2.5 MVA trf.
	Total		**50 MVA**	

Lines Required for strengthening of network for enhanced reliability:

S.No.	From	To	Length (kms)	Bay requirement	Remarks
1	132 kV Tezu s/s (under construction by PGCIL)	33 kV existing Tezu s/s	10	2 bays required at existing 33/11 kV Tezu s/s	D/C
2	132/33 kV Roing (U/const. by PGCIL)	33 kV existing Simari s/s	7	bays reqd.	D/C
3	132 /33 kV Tezu s/s (under construction by PGCIL)	33 kV existing Warko s/s	15	bays reqd.	S/C
4	Kush HEP	proposed 132/33 kV Koloriang S/s	25	Bay available at Kush	S/C
5	proposed 132/33 Niglok S/s	proposed 33/11 Ruksin S/s	10	Bays at both ends	S/C
6	Liromoba HEP	proposed 33/11 Tirbin S/s	12	bay available at Liromoba HEP	S/C
7	proposed 33/11 Koyu S/s	proposed 33/11 Igo S/s	65	both end bays reqd	S/C
8	proposed 132/33 kV Likabali s/s	proposed 33/11 Igo S/s	55	both end bays reqd	S/C
9	proposed 132/33 kV Halaipani S/s	33 kV existing Hayuliang s/s	35	both end bays reqd	S/C
		Total			
		Single ckt	**217**	**kms**	
		Double ckt.	**17**	**kms**	

Summary of new S/s:

Capacity of S/s	Nos. of S/s	MVA Capacity
2x2.5 MVA	56	280
2x5 MVA with 1 bay	14	140
Total	**70**	**420**

Chief Engineer (P)
Transmission, Plg. & Mng. Zone
Vidyut Bhawan, DoP, Itanagar

1/5/13