North Eastern Region Strengthening Scheme – XIV (NERSS-XIV)

1.0 NAME OF SCHEME

North Eastern Region Strengthening Scheme – XIV (NERSS-XIV)

2.0 SCOPE OF WORK IN THE SCHEME

The transmission system covered under this scheme includes following elements:

Transmission lines

- LILO of Palatana – Surajmaninagar (ISTS) 400kV D/c line at 400/132kV Surajmaninagar (TSECL) S/s

Substations

- 4 no. 400kV line bays at Surajmaninagar (TSECL) for termination of LILO of Surajmaninagar (ISTS) – Palatana 400kV D/c line

The schematic of the proposed transmission scheme attached at **Exhibit-I**.

3.0 OBJECTIVE

To provide reliable feed to Surajmaninagar (TSECL) S/s and to facilitate drawal of power allocated by TSECL through ISTS network from Palatana generating station.

4.0 JUSTIFICATION

As a part of Palatana – Bongaigaon transmission system, Palatana – Surajmaninagar (TSECL) 400kV line (initially operated at 132kV) was implemented to enable Tripura to absorb its share of power from Palatana and Bongaigaon generation projects in NER. The above line was planned to be operated at 400kV under NERSS-V as Palatana – Surajmaninagar (ISTS) 400kV D/c line by shifting of line from Surajmaninagar (TSECL) end to Surajmaninagar (ISTS) substation. Further under NERSS-V scheme, 2 nos. 400/132kV substations were planned at Surajmaninagar (ISTS) and P.K.Bari (ISTS) along with 400kV Surajmaninagar (ISTS) – P.K.Bari (ISTS) D/c line so as to form a robust 400kV ring in southern part of NER viz. Palatana – Surajmaninagar (ISTS) – P.K. Bari (ISTS) – Silchar – Palatana 400kV D/c ring.

In view of increasing load demand in Surajmaninagar area, Tripura has planned to upgrade its Surajmaninagar (TSECL) 132/33kV substation to 400/132kV with 2x315MVA transformation capacity (7x105MVA single phase units including one spare unit). In order to provide reliable feed to Surajmaninagar (TSECL) S/s and to facilitate drawal of power allocated by TSECL through ISTS network from Palatana generating station, LILO both circuits of Palatana-Surajmaninagar (ISTS) 400kV D/c line at 400/132kV Surajmaninagar (TSECL) S/s was planned.

The summary of major assumptions for system study and study results are enclosed at **Annexure-A** and **Annexure-B** respectively**.**

5.0 STAKEHOLDERS CONSULTATION/ APPROVAL

The proposed transmission systems were discussed & finalized in consultation with CEA, generation developers and various state utilities of NER in various meetings as mentioned below:

Meeting	Date
North Eastern Region Power Committee on Transmission Planning (NERPC(TP))	• 1st NERPC(TP): held on 08.11.2019 MoM attached at **Annexure-C**
National Committee on Transmission (NCT)	• 3rd NCT meeting held on 26th & 28th May 2020 MoM attached at **Annexure-D**
North Eastern Region Power Committee (NERPC)	• 21st Meeting of NERPC held on 04.02.2021 MoM attached at **Annexure-E.** The scheme has been referred back to NERPC(TP) for deliberation.

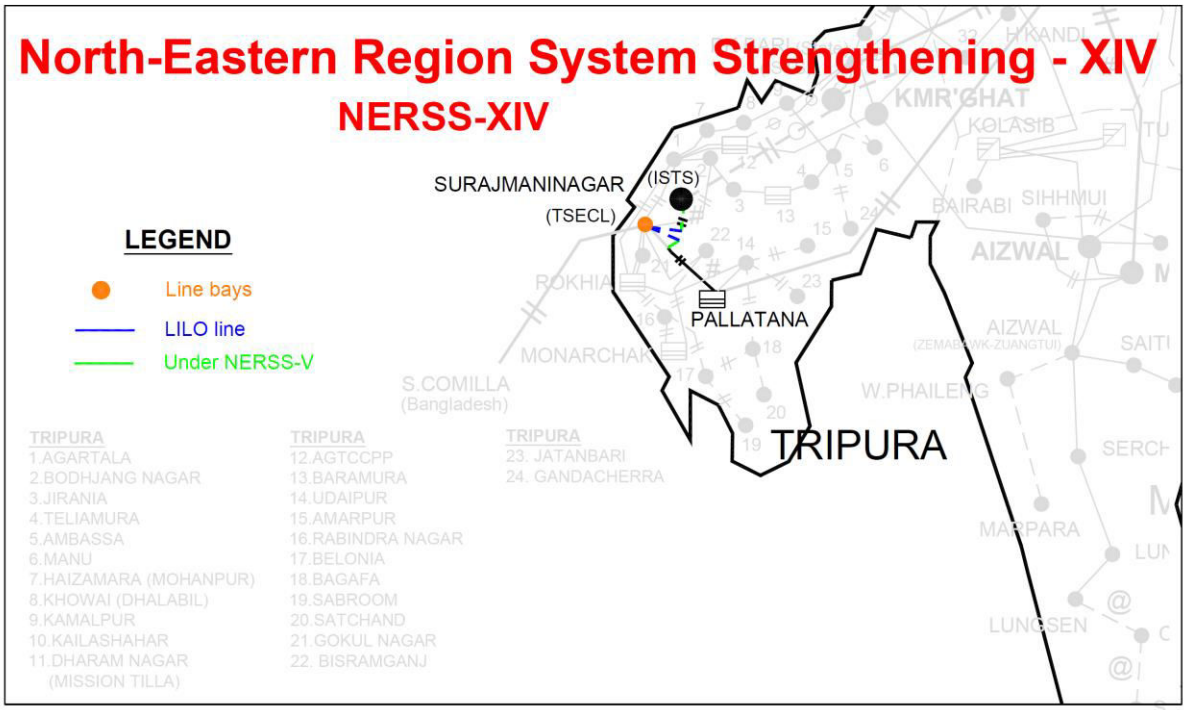
6.0 TIME FRAME / PHASING OF THE IMPLEMENTATION OF THE SCHEME

As per MoP order dated 25-09-2020, the scheme is expected to be commissioned in matching timeframe of upgradation of 400/132kV Surajmaninagar (TSECL) substation. TSECL has informed that the expected commissioning schedule of their SUrajmaninagar S/s is Jan ’22.

7.0 ESTIMATED COST

The estimated cost of the proposed transmission system is ₹45.5 Cr.

Exhibit-I


North-Eastern Region System Strengthening - XIV
NERSS-XIV
SURAJMANINAGAR
(ISTS)
(TSECL)
PALLATANA
TRIPURA
LEGEND
Line bays
LILO line
Under NERSS-V
TRIPURA
1.AGARTALA
2.BODHJANG NAGAR
3.JIRANIA
4.TELIAMURA
5.AMBASSA
6.MANU
7.HAIZAMARA (MOHANPUR)
8.KHOWAI (DHALABIL)
9.KAMALPUR
10.KAILASHAHAR
11.DHARAM NAGAR
(MISSION TILLA)
TRIPURA
12.AGTCCPP
13.BARAMURA
14.UDAIPUR
15.AMARPUR
16.RABINDRA NAGAR
17.BELONIA
18.BAGAFA
19.SABROOM
20.SATCHAND
21.GOKUL NAGAR
22. BISRAMGANJ
TRIPURA
23. JATANBARI
24. GANDACHERRA
KMR'GHAT
KOLASIB
BAIRABI
SIHHMUI
AIZWAL
ROKHIA
MONARCHAK
S.COMILLA
(Bangladesh)
W.PHAILENG
AIZWAL
SAITI
SERCH
MAMPARA
LUNGSEN

Annexure-A

Study Assumptions

- Majority of generating stations in NER are hydro based. To simulate the worst case scenario, low hydro scenario with peak demand of NER has been considered.

- Studies have been carried out on all India basis using PSS/E file for 2022-23 timeframe.

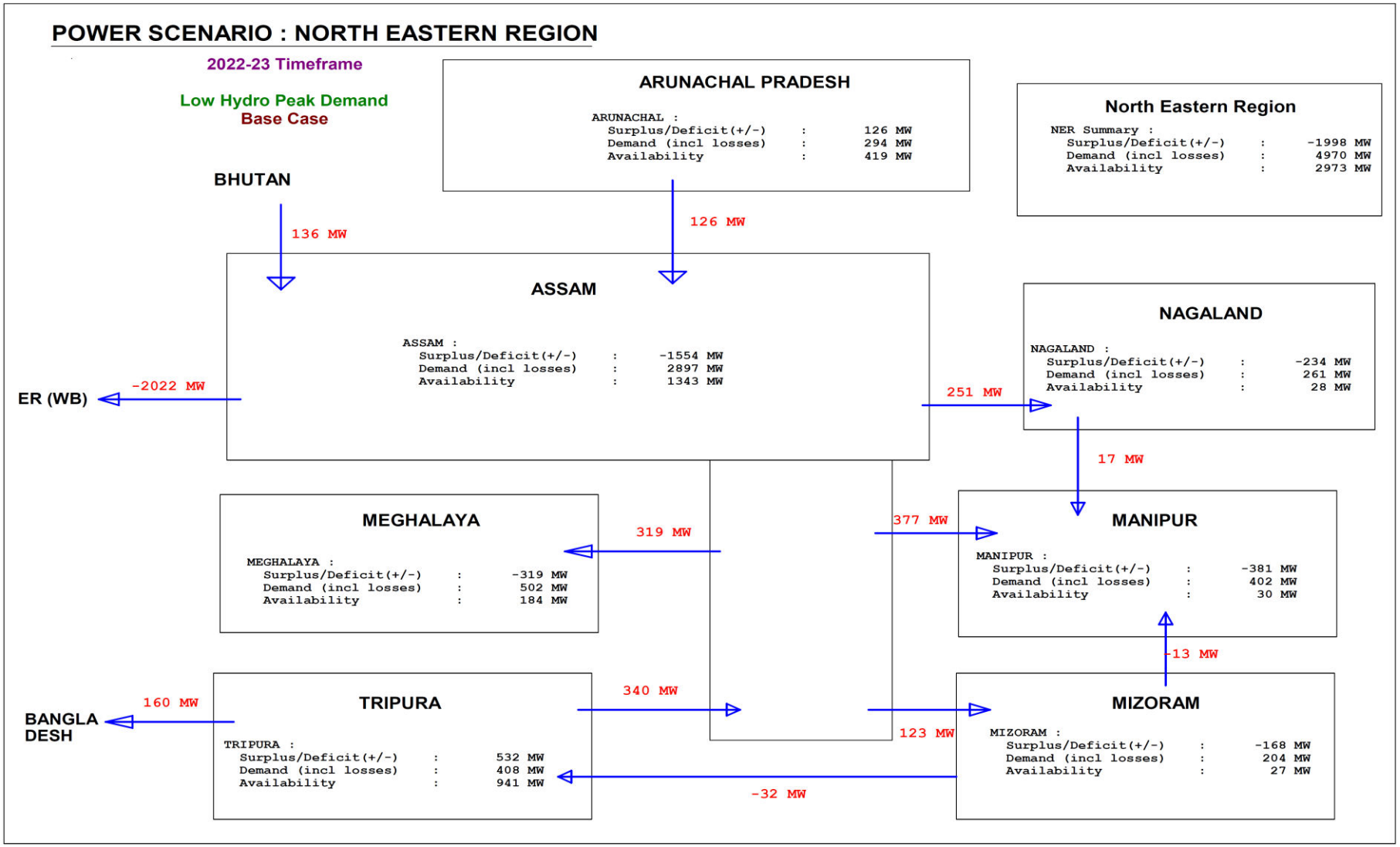
- Peak demand of NER has been taken as per 19th EPS.

- The installed capacity of NER grid has been considered as about 4900MW.

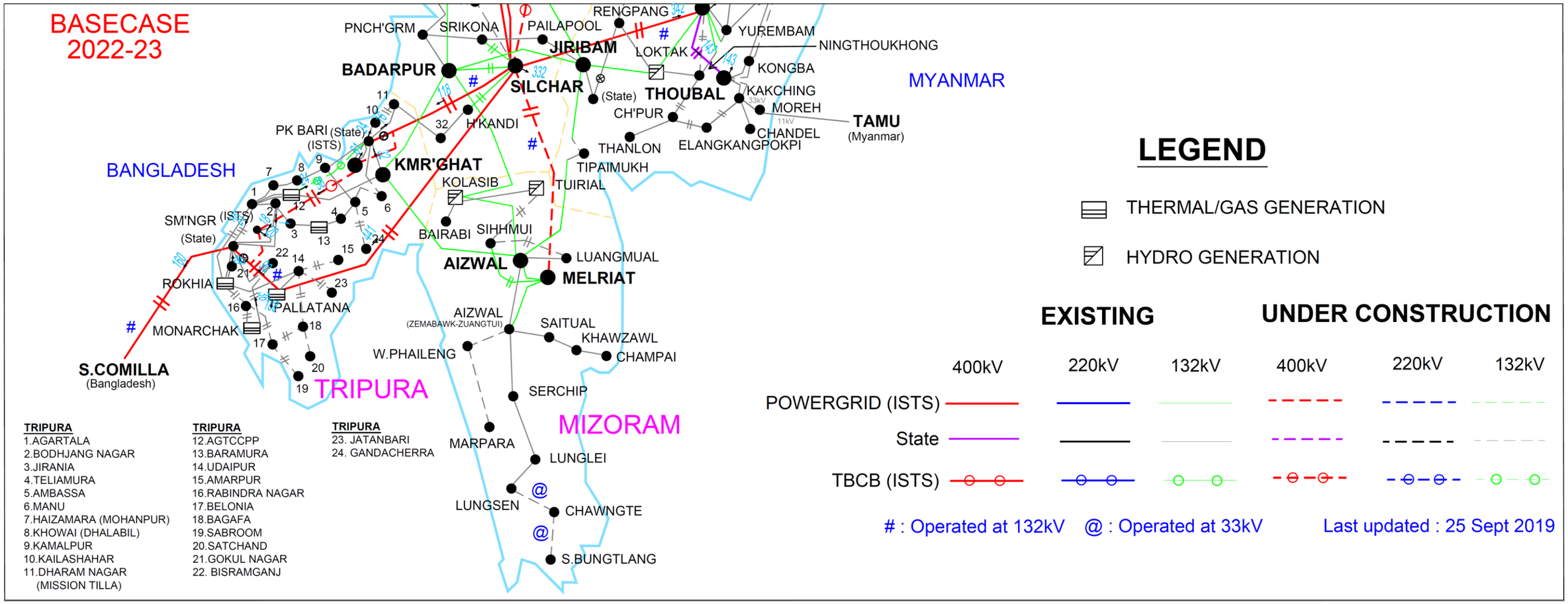
- Despatch factor for Thermal/Gas and Hydro generations has been considered as 70% and 50% respectively.

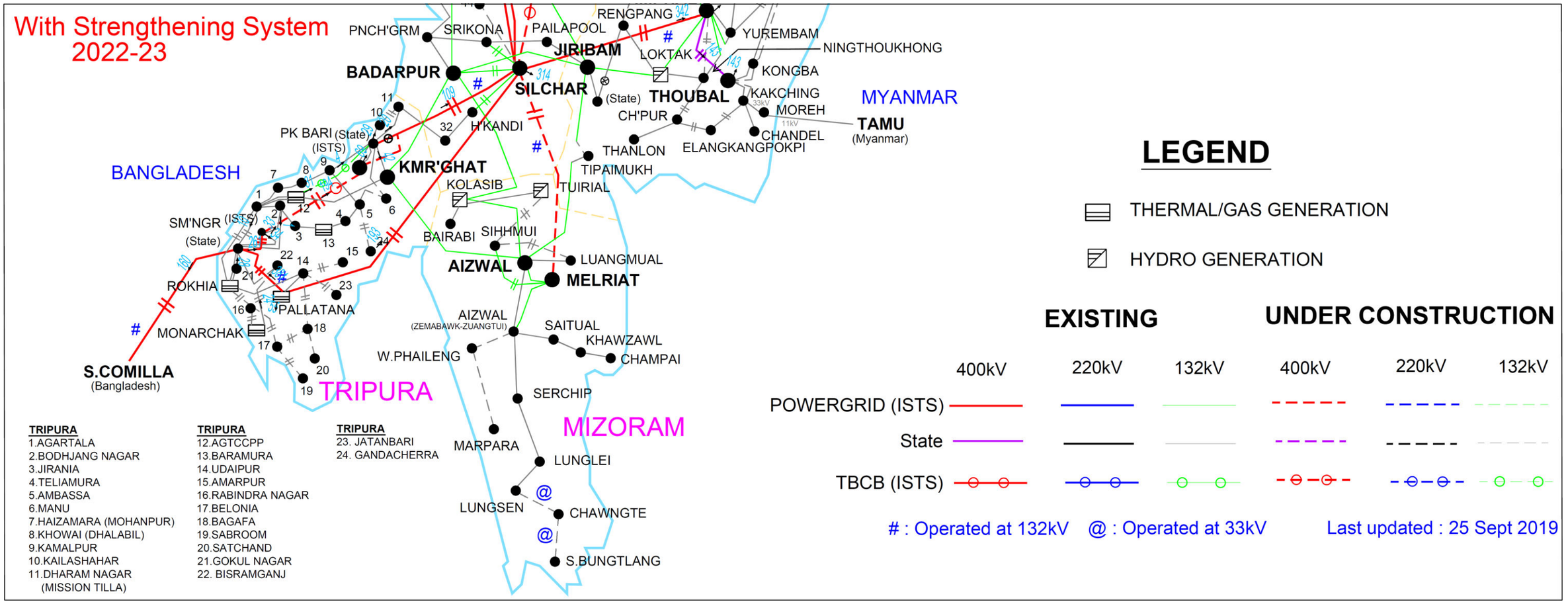
- Load Generation Balance considered for North Eastern Region is enclosed at **Exhibit-II.**

Exhibit-II


POWER SCENARIO : NORTH EASTERN REGION
2022-23 Timeframe
Low Hydro Peak Demand
Base Case
ARUNACHAL PRADESH
ARUNACHAL :
Surplus/Deficit(+/-) : 126 MW
Demand (incl losses) : 294 MW
Availability : 419 MW
North Eastern Region
NER Summary :
Surplus/Deficit(+/-) : -1998 MW
Demand (incl losses) : 4970 MW
Availability : 2973 MW
BHUTAN
136 MW
126 MW
ASSAM
ASSAM :
Surplus/Deficit(+/-) : -1554 MW
Demand (incl losses) : 2897 MW
Availability : 1343 MW
NAGALAND
NAGALAND :
Surplus/Deficit(+/-) : -234 MW
Demand (incl losses) : 261 MW
Availability : 28 MW
ER (WB)
-2022 MW
251 MW
17 MW
MEGHALAYA
MEGHALAYA :
Surplus/Deficit(+/-) : -319 MW
Demand (incl losses) : 502 MW
Availability : 184 MW
319 MW
377 MW
MANIPUR
MANIPUR :
Surplus/Deficit(+/-) : -381 MW
Demand (incl losses) : 402 MW
Availability : 30 MW
-13 MW
BANGLA DESH
160 MW
TRIPURA
TRIPURA :
Surplus/Deficit(+/-) : 532 MW
Demand (incl losses) : 408 MW
Availability : 941 MW
340 MW
123 MW
MIZORAM
MIZORAM :
Surplus/Deficit(+/-) : -168 MW
Demand (incl losses) : 204 MW
Availability : 27 MW
-32 MW

Annexure-B


BASECASE
2022-23
BANGLADESH
MYANMAR
TRIPURA
MIZORAM
PNCH'GRM
SRIKONA
PAILAPOOL
RENGPANG
JIRIBAM
LOKTAK
YUREMBAM
NINGTHOUKHONG
BADARPUR
SILCHAR
KONGBA
THOUBAL
KAKCHING
MOREH
CH'PUR
TAMU
(Myanmar)
CHANDEL
ELANGKANGPOKPI
THANLON
TIPAIMUKH
H'KANDI
PK BARI (State)
(ISTS)
KMR'GHAT
KOLASIB
TUIRIAL
SM'NGR (ISTS)
(State)
BAIRABI
SIHHMUI
LUANGMUAL
AIZWAL
MELRIAT
ROKHIA
PALLATANA
MONARCHAK
S.COMILLA
(Bangladesh)
AIZWAL
(ZEMABAWK-ZUANGTUI)
SAITUAL
KHAWZAWL
CHAMPAI
W.PHAILENG
SERCHIP
MARPARA
LUNGLEI
LUNGSEN
CHAWNGTE
S.BUNGTLANG
TRIPURA
1.AGARTALA
2.BODHJANG NAGAR
3.JIRANIA
4.TELIAMURA
5.AMBASSA
6.MANU
7.HAIZAMARA (MOHANPUR)
8.KHOWAI (DHALABIL)
9.KAMALPUR
10.KAILASHAHAR
11.DHARAM NAGAR
(MISSION TILLA)
TRIPURA
12.AGTCCPP
13.BARAMURA
14.UDAIPUR
15.AMARPUR
16.RABINDRA NAGAR
17.BELONIA
18.BAGAFA
19.SABROOM
20.SATCHAND
21.GOKUL NAGAR
22. BISRAMGANJ
TRIPURA
23. JATANBARI
24. GANDACHERRA
LEGEND
THERMAL/GAS GENERATION
HYDRO GENERATION
EXISTING
UNDER CONSTRUCTION
400kV
220kV
132kV
400kV
220kV
132kV
POWERGRID (ISTS)
State
TBCB (ISTS)
: Operated at 132kV
@ : Operated at 33kV
Last updated : 25 Sept 2019


With Strengthening System
2022-23
PNCH'GRM
SRIKONA
PAILAPOOL
JIRIBAM
RENGPANG
YUREMBAM
NINGTHOUKHONG
LOKTAK
KONGBA
BADARPUR
SILCHAR
(State) THOUBAL
KAKCHING
MOREH
TAMU
(Myanmar)
MYANMAR
CH'PUR
CHANDEL
ELANGKANGPOKPI
THANLON
TIPAIMUKH
H'KANDI
PK BARI (State)
(ISTS)
KMR'GHAT
BANGLADESH
KOLASIB
TUIRIAL
SM'NGR (ISTS)
(State)
BAIRABI
SIHHMUI
LUANGMUAL
AIZWAL
MELRIAT
ROKHIA
PALLATANA
MONARCHAK
S.COMILLA
(Bangladesh)
AIZWAL
(ZEMABAWK-ZUANGTUI)
SAITUAL
KHAWZAWL
CHAMPAI
W.PHAILENG
SERCHIP
TRIPURA
MIZORAM
MARPARA
LUNGLEI
LUNGSEN
CHAWNGTE
S.BUNGTLANG
TRIPURA
1.AGARTALA
2.BODHJANG NAGAR
3.JIRANIA
4.TELIAMURA
5.AMBASSA
6.MANU
7.HAIZAMARA (MOHANPUR)
8.KHOWAI (DHALABIL)
9.KAMALPUR
10.KAILASHAHAR
11.DHARAM NAGAR
(MISSION TILLA)
TRIPURA
12.AGTCCPP
13.BARAMURA
14.UDAIPUR
15.AMARPUR
16.RABINDRA NAGAR
17.BELONIA
18.BAGAFA
19.SABROOM
20.SATCHAND
21.GOKUL NAGAR
22. BISRAMGANJ
TRIPURA
23. JATANBARI
24. GANDACHERRA
LEGEND
THERMAL/GAS GENERATION
HYDRO GENERATION
EXISTING
UNDER CONSTRUCTION
400kV
220kV
132kV
400kV
220kV
132kV
POWERGRID (ISTS)
State
TBCB (ISTS)
: Operated at 132kV
@ : Operated at 33kV
Last updated : 25 Sept 2019

I/8459/2019

Annexure-C

सत्यमेव जयते

भारत सरकार
Government of India
विद्युत मंत्रालय
Ministry of Power
केंद्रीय विद्युत प्राधिकरण
Central Electricity Authority
विद्युत प्रणाली योजना एवं मूल्यांकन प्रभाग -II
Power System Planning & Appraisal Division-II

सेवा में/To

संलग्न सूची के अनुसार
As per list enclosed

विषय: उत्तर पूर्वी क्षेत्रीय विद्युत समिति (पारेषण योजना) (उ.पू.क्षे.वि.स.पा.यो) की प्रथम बैठक / पारेषण तंत्र पर उत्तर पूर्वी क्षेत्रीय स्थायी समिति (एन.ई.आर.एस.सी.टी.) की दूसरी बैठक का कार्यवृत |

Subject: Minutes of meeting of 01st meeting of North Eastern Regional Power Committee (Transmission Planning) (NERPCTP) / 2nd meeting of North Eastern Region Standing Committee meeting on Transmission (NERSCT) for planning of Transmission System.

महोदय(Sir)/महोदया(Madam),

उत्तर पूर्वी क्षेत्रीय विद्युत समिति (पारेषण योजना) (उ.पू.क्षे.वि.स.पा.यो) की प्रथम बैठक / पारेषण तंत्र पर उत्तर पूर्वी क्षेत्रीय स्थायी समिति (एन.ई.आर.एस.सी.टी.) की दूसरी बैठक शिलांग में 08 नवंबर, 2019 को आयोजित की गई थी। बैठक का कार्यवृत संलग्न है ।

The minutes of the 01st meeting of North Eastern Regional Power Committee (Transmission Planning) (NERPCTP)/ 02nd meeting of North Eastern Region Standing Committee on Transmission (NERSCT) held at Shillong on 08th November, 2019 is enclosed herewith.

भवदीय/Your faithfully,

Jindal 13/12/2019

(प्रदीप जिंदल / Pardeep Jindal)
मुख्य अभियन्ता / Chief Engineer

सेवा भवन, आर. के. पुरम-I, नई दिल्ली-110066 **टेलीफोन** : 011-26198092 **ईमेल**: cea-pspa2@gov.in वेबसाइट: www.cea.nic.in
Sewa Bhawan, R.K Puram-I, New Delhi-110066 **Telephone**: 011-26198092 **Email**: cea-pspa2@gov.in **Website**: www.cea.nic.in-

Itanagar 132kV D/c (ISTS) line at Gohpur (AEGCL). AEGCL informed that the planned upgadation of Gohpur S/s to GIS is yet to be taken up and bays could be indicated only after finalisation of the scheme.

16.8. It was informed that as per CERC regulations/orders, transmission licensee responsible for executing the upstream/ downstream transmission system shall be liable to pay the entire transmission charges of the inter-state transmission system till such upstream/ downstream transmission system commissioned.

17. Re-routing of 132 kV D/C Transmission Line from R.C Nagar (AGTCCPP, NEEPCO) to P.K Bari (TSECL) under TBCB through existing TSECL Bodhjungnagar 132 kV Sub-station

17.1. Director (PSPA-II), CEA stated that in the 1st meeting of NERSCT, TSECL proposed rerouting of AGTPP (R.C Nagar NEEPCO) - P.K Bari (TSECL) 132kV D/c line (being implemented under TBCB) via Bodhjungnagar S/s (TSECL) with associated bays to prevent intra-state grid congestion. In the meeting, it was suggested that AGTPP (NEEPCO) - P.K Bari (TSECL) 132kV D/c line is already under implementation under TBCB and change in scope scheme would involve commercial, regulatory and contractual issues. Therefore, it may not be advisable to reroute the line under the scope of the TSP implementing this project under TBCB.

17.2. Chief Engineer (PSPA-II), CEA stated that the purpose of ISTS is to evacuate the power from ISGS to the nearest substation. From there on, the state can develop their own intra-state system for drawl of power. He added that following connectivity already exists in Tripura for feeding Bodhjungnagar:

(i) Bodhjungnagar is connected to Agartala (through 132kV S/c line)

(ii) Agartala is connected to R.C.Nagar (through 132kV D/c line)

(iii) Agartala is directly connected to Surajmaninagar (TSECL) (through 132kV D/c line)

Accordingly, there is already a link between Bodhjungnagar to R.C.Nagar via Agartala.

17.3. After deliberations, it was decided that TSECL can plan intra-state strengthening scheme, if required, and submit system study report to CEA.

18. Modifications in NERSS-V scheme and Surajmaninagar- Comilla (North) 400 kV link

18.1. Director (PSPA-II), CEA stated that following system was inter-alia included in the North Eastern Region Strengthening Scheme-V as agreed in the 5th meeting of SCPSPNER held on 08-08-2015 to meet the growing demand of the State of

Tripura and to provide alternate evacuation path to Palatana (726MW) generation project:

Under the scope of ISTS

(i) Establishment of 2x315 MVA 400/132 kV S/s at Surajmaninagar

(ii) Establishment of 2x315 MVA 400/132 kV S/s at P. K. Bari

(iii) Surajmaninagar - P. K. Bari 400 kV D/c line

(iv) Termination of Palatana – Surajmaninagar 400kV D/C line (presently operated at 132kV) at 400kV bus of Surajmaninagar ISTS substation

(v) 2 no. 400 kV line bays at Palatana GBPP switchyard for termination of Palatana – Surajmaninagar 400kV D/c line

Under the scope of TSECL

(vi) Surajmani Nagar (ISTS) – Surajmani Nagar (TSECL) 132kV D/c line with high capacity/ HTLS (equivalent of single moose) (by TSECL)

(vii) P.K. Bari (ISTS) – P.K. Bari (TSECL) 132kV D/c line with high capacity/ HTLS (equivalent of single moose) (by TSECL)

18.2. CERC had given license to M/s NER-II Transmission Limited for transmission works (under TBCB) which inter-alia covers works mentioned at (i), (ii), (iii) and (v) above and is under implementation with completion schedule of July 2020. Item (iv) is being implemented by POWERGRID under RTM.

18.3. In the 1st meeting of NERSCT held on 29.11.2018 proposal of Tripura to establish a 400/132kV substation at Surajmaninagar as intra-state transmission scheme was discussed. Accordingly, to interconnect this future substation to NER grid, various options were explored. After deliberations, following were agreed:

QUOTE

*(ii) Modification in part scope of the scheme – "POWERGRID works associated with NERSS-V" (**Subject to views of TSECL** – as per para 13.8 above)*

Earlier scope:

- *Additional 400kV D/c line at Surajmani Nagar end for termination of Palatana – Surajmani Nagar 400kV D/c line (op. at 132kV) line at 400kV Surajmani Nagar (ISTS) S/s*

Revised scope:

- *LILO of Palatana – Surajmani Nagar (TSECL) 400kV D/c line (op. at 132kV) at Surajmani Nagar (ISTS) S/s and operation of Palatana – Surajmani Nagar (ISTS) section at rated voltage level of 400kV & operation of Surajmani Nagar (TSECL) – Surajmani Nagar (ISTS) section at 132kV (with provision to operate the line at 400kV level in future, as and when required).*

(iii) Upgradation of 132kV Surajmani Nagar (TSECL) S/s to 400kV level, can be examined when TSECL submits relevant study alongwith system data and load growth/generation addition planned in Tripura."

UNQUOTE

18.4. TSECL has not confirmed the above proposal and as such, no decision could be taken for implementation of the same.

18.5. TSECL, however, submitted a "System study report considering Present and Future Load Growth Projection for the State of Tripura" for up-gradation of TSECL's 132 kV Surajamaninagar S/s to 400kV level to MoP. This report was forwarded to CEA for examination and accordingly, CEA vide letter dated 06.08.2019 communicated its observations to MoP on Tripura's proposal **(copy enclosed at Annex-VI)**. To meet the increased load demand in Tripura, as projected by TSECL, following 400kV transmission system strengthening works were proposed:

(i) By Tripura State Electricity Corporation Limited (TSECL)

a. Upgradation of existing 132kV substation at Surajamaninagar of TSECL to 400/132 kV, 7x105MVA (1-phase) (Tripura/TSECL should also plan suitable 132kV outgoing transmission lines at this upgraded sub-station and also at the under construction Surajamaninagar ISTS)

(ii) Under ISTS

a. Surajamaninagar (TSECL) – Surajamaninagar (ISTS) 400kV D/C line

b. 2 nos. of 400 kV bays at Surajamaninagar (TSECL)

c. 2 nos. of 400 kV bays at Surajamaninagar (ISTS)

18.6. Representative of TSECL informed that they had received sanction from MoDONER vide letter dated 01.10.2019 for upgradation of existing 132kV substation at Surajamaninagar (TSECL) to 400/132kV. Fund will be arranged under NESIDS (North East Special Infrastructure Development Scheme). He added that tender is under preparation and is likely to be awarded by December 2019 with implementation in one year from date of award.

18.7. Chief Engineer (PSPA-II), CEA stated that there will be a time gap in between the commissioning schedule of 400/132kV ISTS S/s at Surajmaninagar (ISTS) and 400/132kV S/s at Surajmaninagar (TSECL), as Surajmaninagar (ISTS) is scheduled to commission by July 2020. This time gap needs to be addressed. He proposed that modification in part scope of the scheme – "POWERGRID works associated with NERSS-V" as discussed in 1st meeting of NERSCT (mentioned at para 18.1 (iv) above) may be agreed by TSECL.

18.8. Representative of TSECL stated that the proposal of LILO of Palatana – Surajmaninagar (TSECL) at Surajmaninagar (ISTS) is not acceptable to Tripura. He added that Palatana should to be terminated at 400/132 kV S/s at

SurajmaninNagar (TSECL) and then go to 400/132kV ISTS S/s at Surajmaninagar (ISTS) as communicated in letter of CEA to MoP dated 06.08.2019.

18.9. Representative of POSOCO stated that presently the south NER system which includes Palatana generation and entire Tripura system is running in extremely critical condition after collapse of Kopili. He requested for early decision, so that proposed connectivity is to be established by July, 2020.

18.10. Chief Engineer (PSPA-II), CEA informed that that the original approved scheme was of termination of Palatana – Surajmaninagar(TSECL) 400kV D/c line at Surajmaninagar (ISTS) S/s for 400kV operation of the link (to be implemented by POWERGRID) and Surajmani Nagar (ISTS) – Surajmaninagar (TSECL) 132kV D/c line to be implemented by TSECL. TSECL stated that they are exploring the option of connection to Surajmaninagar (ISTS) S/s via 132 kV D/c line, but will depend on the availability of funds.

18.11. TSECL insisted that connectivity of Surajmaninagar (TSECL) 400kV s/s should be exactly as depicted in CEA letter 06.08.2019, which was forwarded to them by MoP/MoDONER.

18.12. Members opined that any modification in the scheme which is already under implementation through TBCB and as per transmission license issued by CERC and nearing completion, would have financial and legal implications. Accordingly, there should not be any deviation in the scope of works of the already agreed and under construction system.

18.13. After exploring various options, it was proposed that the original approved scheme of shifting of Palatana – Surajmaninagar(TSECL) D/c line at Surajmaninagar (ISTS) S/s for 400kV operation of the link at rated voltage may be implemented in matching timeline of NERSS-V i.e. July 2020 **(schematic diagram enclosed at Exhibit-I (a))**. Upon 400kV upgradation of Surajmaninagar (TSECL) S/s, the Palatana – Surajmaninagar (ISTS) 400kV D/c link may be LILOed at Surajmaninagar (TSECL) S/s alongwith 4 nos. 400kV line bays at Surajmaninagar (TSECL) S/s under a separate ISTS scheme. **(schematic diagram enclosed at Exhibit-II)**. It will also be in consonance with the connectivity as depicted in CEA letter 06.08.2019 which TSECL is referring to and mentioned in MoP/DoNER approvals.

18.14. After detailed deliberations the following were agreed:

a) Shifting of Palatana – Surajmaninagar (TSECL) 400kV D/c line (operated at 132kV) to the 400/132kV ISTS S/s at Surajmaninagar – implementation by POWERGRID (by July 2020) as already allocated to them by MoP, GoI (Copy of GoI letter is enclosed at **Annex-VII**) – depicted at **Exhibit-I (a)**

b) LILO of Palatana-Surajmaninagar (ISTS) 400kV D/c line at 400/132kV Surajmaninagar (TSECL) s/s along with associated 4 no. 400kV line bays in

matching timeframe of upgradation of 400/132kV Surajmaninagar (TSECL) substation would be implemented under ISTS – depicted at **Exhibit-I (b)**

For 18.14 (b) above TSECL stated that they would send their opinion by 30th November, 2019.

Regarding shifting of Surajmaninagar (India) – Comilla (Bangladesh) 400kV cross border link to ISTS substation at Surajmaninagar:

18.15. In the 2nd meeting of Empowered Committee on Transmission held on 06.08.2018 following Indian Portion for 500MW HVDC back -to -back station at North Comilia (Bangladesh) for transfer of power through Surjamaninagar (India)-North Comilia (Bangladesh) was agreed for implementation under RTM

(a) Operation of Surajmaninagar (TSECL) - North Comilia 400kV D/c line (presently operated at 132kV) at 400kV through termination at 400kV bus of Surajmaninagar ISTS S/s - implementation by POWERGRID

(b) 2 nos. 400kV line bays at Surajmaninagar ISTS S/s for termination of Surajmaninagar (TSECL) - North Comilia 400kV D/C line – implementation by the owner of the Surajmaninagar ISTS substation i.e. NER II Transmission Ltd. an ISTS Transmission Licensee.

18.16. In the 17th Indo-Bangladesh JSC/JWG meeting held on 26th August, 2019 in Dhaka, Bangladesh, it was decided that operation of Surajmaninagar-Comilla 400 kV D/c line (presently operated at 132 kV level) at 400kV and the 500 MW HVDC terminal at Comilla would not be required considering technical and financial grounds. Hence, further works related to this project on the both sides may be dropped.

18.17. Representative of TSECL stated that they have ongoing contract for sale of power to Bangladesh upto March 2021, therefore, Comilla (Bangladesh) line should be connected at Surajmaninagar (TSECL).

18.18. It was opined that termination of Surajmaninagar (TSECL) - North Comilia 400kV D/C line at Surajmaninagar ISTS substation would not have any adverse impact on ongoing contract for sale of power by Tripura to Bangladesh.

18.19. It was informed that the Surajmaninagar (India) – Comilla (Bangladesh) 400kV (being operated at 132kV) cross border link (upto Indian Border) was implemented by POWERGRID but presently connected to Tripura state grid.

18.20. The views of member constituents were sought regarding shifting of the cross border Comilla (Bangladesh)-Surajmaninagar (TSECL) 400kV D/c line (operated at 132kV) Cross Border link to ISTS station at 400/132kV Surajmaninagar. Representatives from Assam, Arunachal Pradesh, Meghalaya, Manipur, Mizoram, CTU and NERLDC stated that the cross border link to Bangladesh should be

shifted to ISTS substation as this shall provide opportunity to all constituents to sell power to Bangladesh with equal terms.

18.21. After deliberations, it was agreed by all present except TSECL that Comilla (Bangladesh)-Surajmaninagar (TSECL) 400kV D/c line (operated at 132kV) Cross Border link would be shifted to 400/132kV S/s at Surajmaninagar (ISTS) along with 2 no. 132kV line bays at Surajmaninagar (ISTS), as ISTS scheme. This work would be scheduled for completion in April 2021 i.e. after expiry of existing contract of Tripura for sale of power to Bangladesh – depicted at **Exhibit-I (c)**

19. Implementation of 132kV line bay at Palatana generation switchyard

19.1. Palatana – Surajmaninagar 400kV D/c line (presently operating at 132 kV) has been commissioned as part of Palatana-Bongaigaon transmission system. At present, 2 nos. 132kV line bays are available at Palatana end. Palatana – Udaipur 132kV S/c line of Tripura has been terminated in one bay and one ckt. of Palatana – Surajmaninagar D/c line is terminated in the other bay. Other ckt. of Palatana – Surajmaninagar D/c line is yet to be connected at Palatana end.

19.2. In the 1st meeting of NERSCT, it was agreed to retain the connection of Palatana – Udaipur line in Surajmaninagar line bays at Palatana end for additional six months (upto May 2019). It was emphasized that Tripura may expeditiously complete the Monarchak – Surajmaninagar line to avoid further time extension.

19.3. Representative of TSECL stated that the issue was also discussed in the 20th meeting of TCC & RPC of NERPC, wherein it was elaborately requested to retain the connection of Palatana – Udaipur line in Surajmaninagar line bays at Palatana end for additional six months. NERPC has approved the retention till May 2020, subject to the approval of Standing Committee. Udaipur 132kV S/s is taking care of two districts of the state i.e. Gomti and South district. It is connected to Palatana and Rokhia each with a 132kV S/c line. If Palatana gets disconnected, then the two districts will be very much unstable. TSECL wants to retain the connection of Palatana-Udaipur 132kV line.

19.4. Chief Engineer (PSPA-II), CEA stated that with the commissioning of 400/132kV ISTS S/s at Surajmaninagar by July 2020, Palatana-Surajmaninagar (TSECL) 400kV D/c line (operated at 132kV) will be charged to 400kV and hence one more 132kV bay will become vacant, which TSECL may plan to utilize.

19.5. TSECL stated that the second bay will be utilized for establishing second circuit of Palatana-Udaipur 132kV line. So Udaipur will be connected to Palatana by 132kV D/c line.

19.6. After detailed deliberation the following were agreed:

Annexure-D

भारत सरकार
Government of India
विद्युत मंत्रालय
Ministry of Power
केन्द्रीय विद्युत प्राधिकरण
Central Electricity Authority
विद्युत प्रणाली योजना एवं मूल्यांकन - I प्रभाग
Power System Planning & Appraisal - I Division

सेवा में / To

-As per enclosed list-

विषय: "ट्रांसमिशन पर राष्ट्रीय समिति" (एनसीटी) की तीसरी **बैठक** - बैठक के कार्यवृत्त

Subject: 3rd meeting of "National Committee on Transmission" (NCT) – Minutes of Meeting

Sir/Madam,

The 3rd meeting of the "National Committee on Transmission" (NCT) was held through Video Conferencing on 26th and 28th May, 2020 under the Chairmanship of Shri P. S. Mhaske, Chairperson, CEA. The Minutes of the meeting are enclosed herewith.

Yours faithfully,

Signature Not Verified
Digitally signed by GOUTAM ROY
Date: 2020.07.17 17:16:05 IST

(Goutam Roy)
Chief Engineer (PSPA-I) & Member Secretary (NCT)

Copy to:

(i) Joint Secretary (Trans), Ministry of Power, Shram Shakti Bhawan, New Delhi-110001
(i) Chief Engineer (PSPA-II), CEA
(ii) CMD (POSOCO), B-9, Qutub, Institutional Area, Katwaria Sarai, New Delhi - 110010
(iii) CEO, RECTPCL, ECE House, 3rd Floor, Annexe - II, 28A, KG Marg, New Delhi - 110001
(iv) VP, PFC Consulting Ltd, First Floor, "Urjanidhi", 1, Barakhmba Lane, Connaught Place, New Delhi-110001

9.4.2. NCT approved the proposed reconductoring works.

9.5. Upgradation of switching scheme at POWERGRID substations at Nirjuli and Imphal:

9.5.1. CEA representative stated that for increased reliability, the conversion of following S/s from Single Main Transfer Scheme to Double Main Transfer Scheme on completion of 25 years was agreed in the 1st meeting of NERPC(TP) held on 08.11.2019:

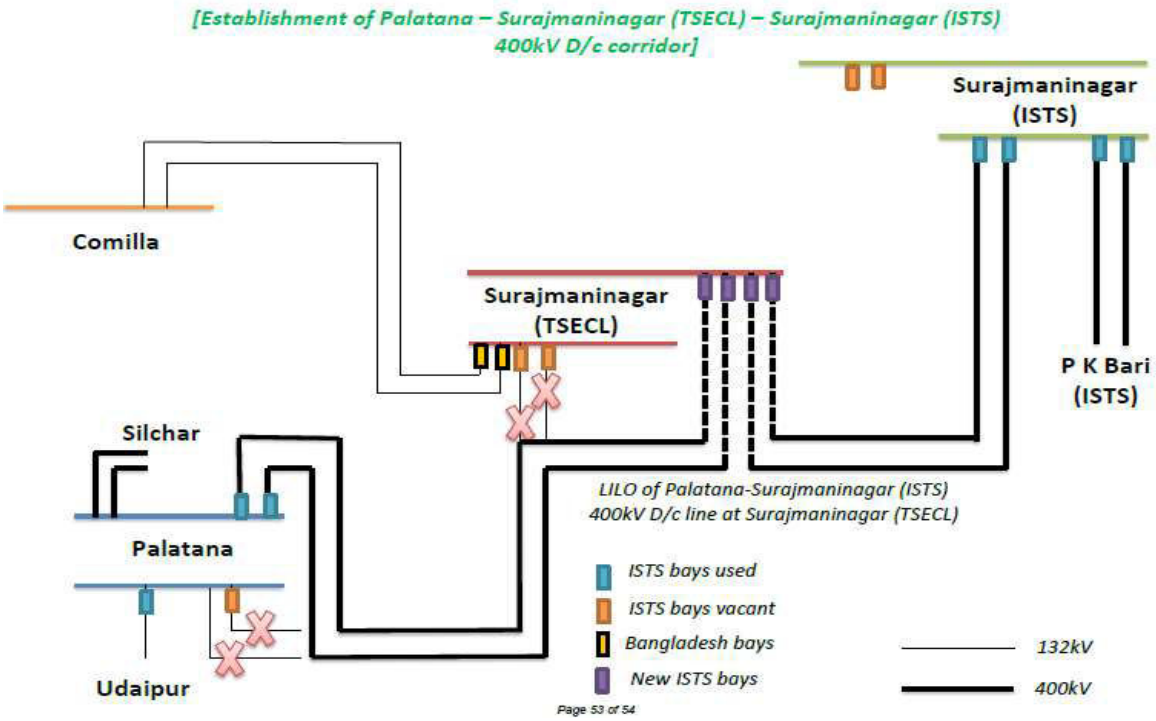
(i) Conversion of 132kV level of 132/33kV Nirjuli S/s to Double Main Transfer Bus Scheme preferably with Bus Sectionalisation on AIS depending on layout or alternatively on GIS/ Hybrid GIS if layout does not permit AIS Bus sectionalisation

(ii) Conversion of 132kV level of 400/132kV Imphal S/s to Double Main Transfer Bus Scheme preferably with Bus Sectionalisation on AIS depending on layout or alternatively on GIS/ Hybrid GIS if layout does not permit AIS Bus sectionalisation

9.5.2. NCT approved the above conversions/upgradation in existing substations.

9.6. 400kV connectivity to Surajmaninagar (TSECL) 400/132kV S/s:

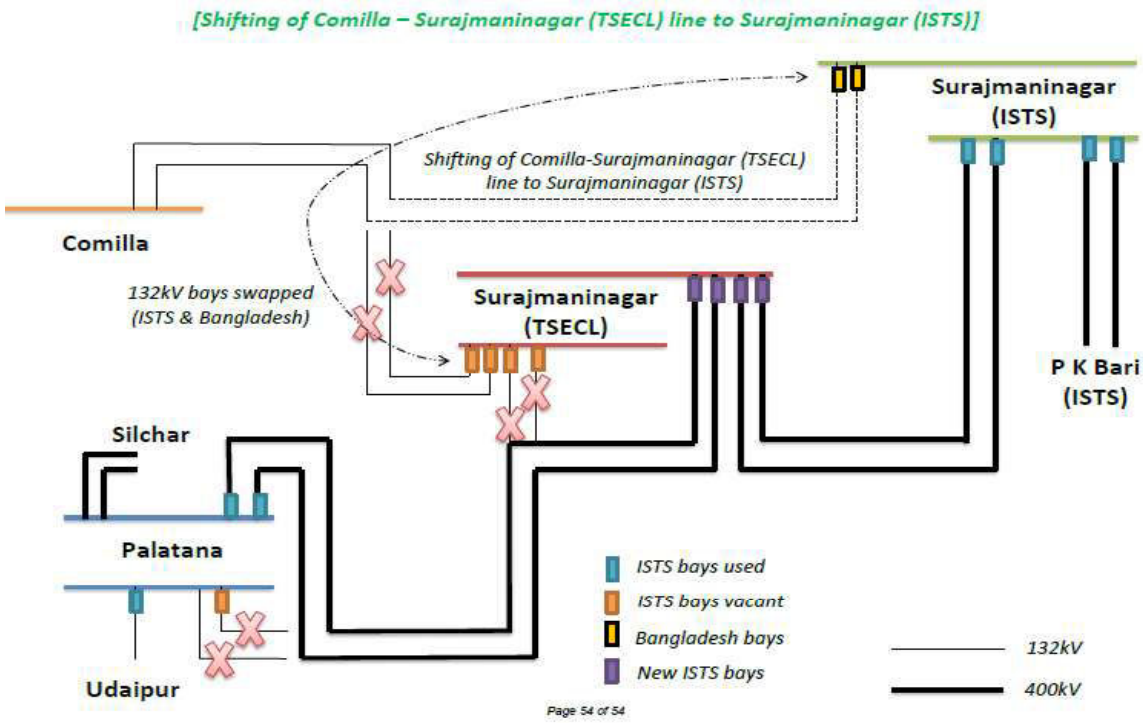
9.6.1. Representative of CTU stated that Shifting of Palatana – Surajmaninagar (TSECL) 400kV D/c line (operated at 132kV) to the 400/132kV ISTS S/s at Surajmaninagar (ISTS) is already under implementation by POWERGRID. Also, TSECL is implementing upgradation of existing 132kV substation at Surajamaninagar (TSECL) to 400/132kV considering load growth projection of Tripura. In the 1st meeting of NERPC(TP), it was agreed that Upon 400kV upgradation of Surajmaninagar (TSECL) S/s, the Palatana – Surajmaninagar (ISTS) 400kV D/c link may be LILOed at Surajmaninagar (TSECL) S/s alongwith 4 nos. 400kV line bays at Surajmaninagar (TSECL) S/s under a separate ISTS scheme.



9.6.2. Accordingly, the following scheme to be taken up under ISTS is being put up for approval of NCT:

(i) LILO of Palatana – Surajmaninagar (ISTS) 400kV D/c line at 400/132kV Surajmaninagar (TSECL) S/s along with associated 4 no. 400kV line bays – *In matching timeframe of upgradation of 400/132kV Surajmaninagar (TSECL) substation*

9.6.3. It was also informed that in the 1st meeting of NERPC (TP) held on 08.11.2019, the proposal of shifting of the cross border Comilla (Bangladesh)-Surajmaninagar (TSECL) 400kV D/c line (operated at 132kV) Cross Border link to ISTS station at 400/132kV was also discussed as this shall provide opportunity to all constituents to sell power to Bangladesh with equal terms. The proposal was agreeable to all the NER constituents except TSECL which has an ongoing contract for sale of power to Bangladesh upto March 2021.



9.6.4. Accordingly, the following proposal is being put up before NCT with the conditions that the works involved in the proposal would be scheduled for completion in April 2021 i.e. after expiry of existing contract of Tripura for sale of power to Bangladesh :

(ii) Shifting of Comilla (Bangladesh) – Surajmaninagar (TSECL) 400kV D/c line (operated at 132kV) to Surajmaninagar (ISTS) along with 2 no. 132kV line bays at Surajmaninagar (ISTS) – *Completion in Apr 2021.*

9.6.5. NCT approved the scheme (i) and re-deliberation of scheme (ii) in RPC-TP.

D. CTU inputs/presentation for development of an efficient, co-ordinated and economical inter – State transmission system for smooth flow of electricity:

1.1. COO (CTU-Plg), POWERGRID made a comprehensive presentation before the NCT on development of ISTS for smooth flow of electricity. It was informed that after re-constitution of the NCT and Regional Standing Committee on Power System planning in Nov'19 by Ministry of Power, GoI, five meetings of Regional Power Committee (Transmission Planning) were held where various transmission schemes were identified to facilitate meeting the anticipated power demand by 2022. The scheme also includes augmentation of transformation capacity in various substations, installation of reactors, series reactors to control fault current, re-conductoring of existing transmission lines etc. to address feedback from system operators. It was also presented that transmission plan for integration of potential Renewable Energy Zones(REZ) viz. Solar and wind of 66.5GW by

भारत सरकार Government of India
विद्युत मंत्रालय Ministry of Power
उत्तर पूर्वी क्षेत्रीय विद्युत समिति
North Eastern Regional Power Committee
एन ई आर पी सी कॉम्प्लेक्स, डोंग पारमाओ, लापालाङ, शिल्लॉंग-७९३००६, मेघालय
NERPC Complex, Dong Parmaw, Lapalang, Shillong - 793006.
Ph. No: 0364 - 2534039
Fax No: 0364 - 2534040
Website: www.nerpc.nic.in

Annexure-E

No. NERPC/OP/Committee/2021/5346 - 5419 Date: March 15, 2021

To,

1. Hon'ble Chief Minister & In-charge of Power, Govt. of Assam, Guwahati - 781 006
2. Hon'ble Dy. Chief Minister & In-charge of Power, Govt. of Arunachal Pradesh, Itanagar - 791 111
3. Hon'ble Dy. Chief Minister & In-charge of Power, Govt. of Tripura, Agartala – 799 001
4. Hon'ble Minister of Power, Govt. of Manipur, Imphal – 795 001
5. Hon'ble Minister of Power, Govt. of Meghalaya, Shillong - 793 001
6. Hon'ble Minister of Power, Govt. of Mizoram, Aizawl - 796 001
7. Member (GO&D), CEA, Sewa Bhavan, R.K. Puram, New Delhi - 110 066
8. Commissioner (Power), Govt. of Arunachal Pradesh, Itanagar – 791 111
9. Addl. Chief Secretary (Power), Govt. of Assam, Dispur, Guwahati - 781 006
10. Commissioner & Secretary (Power), Govt. of Manipur, Imphal - 795001
11. Addl. Chief Secretary (Power), Govt. of Meghalaya, Shillong - 793001
12. Secretary (Power), Govt. of Mizoram, Aizawl - 796001
13. Principal Secretary (Power), Govt. of Nagaland, Kohima - 797001
14. Principal Secretary (Power), Govt. of Tripura, Agartala - 799001
15. Chairman & Managing Director, Me.ECL, Lumjingshai', S.R. Road, Shillong - 793 001
16. Chairman & Managing Director, TSECL, Agartala - 799001
17. Chairman & Managing Director, NEEPCO Ltd., Lower New Colony, Shillong - 793 003
18. Chairman, APDCL/AEGCL/APGCL, Bijuli Bhavan, Paltan Bazar, Guwahati - 781 001
19. Director (Finance), NHPC Ltd., NHPC Complex, Sector-33, Faridabad - 121 003
20. Director (Operation), POWERGRID, Saudamini, Plot No. 2, Sector-29, Gurgaon, Haryana – 122 001
21. Director (Marketing & BD), PTC, NBCC Tower, 15 Bhikaji Cama, Place, New Delhi – 110066
22. Director (Coml.), NTPC Ltd. NTPC Bhawan, Scope Complex, Institutional Area, Lodhi Road – 03
23. Managing Director, OTPC, 6th Floor, A-Wing, IFCI Tower -61, Nehru Place, New Delhi - 110019
24. Executive Director (SO), NLDC, B/9, Qutub Institutional Area, Katwaria Sarai, New Delhi – 16
25. CEO, NVVNL, Core 5, 3rd Floor, Scope Complex, 7 Institutional Area, Lodhi Road, New Delhi – 03
26. Managing Director, APDCL, Bijuli Bhavan, Paltan Bazar, Guwahati - 781 001
27. Managing Director, APGCL, Bijuli Bhavan, Paltan Bazar, Guwahati - 781 001
28. Managing Director, AEGCL, Bijuli Bhawan, Paltan Bazar, Guwahati – 781 001

Sub: Minutes of 21st TCC & 21st NER Power Committee Meetings held at Kohima

Sir/Madam,

Please find enclosed herewith the minutes of 21st TCC & 21st NERPC Meetings held at **"Hotel Vivor", Kohima,** Nagaland on **3rd & 4th February, 2021** for your kind information and necessary action. The minute is also available on the website of NERPC, **www.nerpc.nic.in.**

Encl: As above

15/3/2021

(A. K. Thakur)
Member Secretary

Copy to:

1. PS to Chairman, NERPC and Hon'ble Chief Minister & In-charge of Power, Govt. of Nagaland, Kohima - 797 001
2. PS to TCC Chairman and Engineer-in Chief (Power), Department of Power, Government of Nagaland, Kohima – 797 001.

has been found that the 400kV Bus voltage at Misa substation was 424kV in Lean Hydro and 421kV in Peak Hydro season without Bus Reactor. With commissioning of 80MVAR Bus Reactor at Misa, there is 8kV reduction in both the cases catering to better grid security.

Placed for approval of TCC/ NERPC.

Deliberation of the TCC

TCC noted and recommended for approval of RPC.

Deliberation of the RPC

The RPC noted and approved the recommendation of TCC.

ITEM NO. B.05 : RE-INSTATEMENT OF 5MVA 3-PHASE 132/33kV POWER TRANSFORMER AT KUMARGHAT SUSTATION– NERTS.

There was tripping of 5MVA, 3-Phase- 132/33kV Power Transformer (Bharat Bijlee Make) at 132kV Kumarghat S/S on 14.02.2020 due to operation of Buchholz protection. On analysis, it was found that same was due to poor value of degree of polarization w.r.t insulation level of paper over windings due to ageing of the transformer. OEM intimated that there is no more support for repair or rectification as the power transformer was manufactured apx.39yrs ago. Hence it is proposed to procure a new 5 MVA transformer in the ongoing project NERSS VIII. The tentative cost of Transformer is Rs 1.31 Cr (Excluding F&I and Taxes & Duties).

Placed for approval of TCC/ NERPC.

Deliberation of the TCC

TCC noted and recommended for approval of RPC.

Deliberation of the RPC

The RPC noted and approved the recommendation of TCC.

ITEM NO. B.06 : APPROVAL OF SCHEMES APPROVED IN THE 1ST AND 2ND NERPC-TP - NERTS

Number of ISTS schemes were agreed for implementation in the 1st meeting of North Eastern Regional Power Committee (Transmission Planning) held on 08.11.2019 at

Shillong. Subsequently, the same were approved in the 3rd meeting of NCT held on 26th-28th May 2020. Thereafter, MoP vide Office Memorandum dated 25.09.2020 has approved implementation of some of those schemes under RTM by POWERGRID, while some other has been approved for implementation through TBCB route. Such schemes requiring approval of TCC & NERPC are given below:

A. <u>By POWERGRID under RTM</u>

(i) North Eastern Region Strengthening Scheme – XI (NERSS-XI)

i. Extension at Imphal (POWERGRID) S/s

- Installation of 420kV, 2x63MVAr switchable line reactors, one in each circuit of Silchar (POWERGRID) – Imphal (POWERGRID) 400kV D/c line at Imphal end.

ii. Augmentation of transformation capacity at Salakati (POWERGRID) S/s

- Installation of 3rd 220/132kV, 1x100MVA ICT along with associated bays

(ii) North Eastern Region Strengthening Scheme – XII (NERSS-XII)

i. Re-conductoring of Siliguri – Bongaigaon 400kV D/c line with Twin HTLS conductor (Ampacity of single HTLS shall be 1596A – equivalent to Twin ACSR Moose cond. for 45°C ambient and 85°C maximum conductor temperature) along with upgardation of 2 nos. of 400kV bays each at Siliguri & Bongaigaon substation

ii. Re-conductoring of Alipurduar – Salakati 220kV D/c line with Single HTLS conductor (Ampacity of single HTLS shall be 1596A – equivalent to Twin ACSR Moose cond. for 45°C ambient and 85°C maximum conductor temperature) along with upgardation of 2 nos. of 220kV bays each at Alipurduar & Salakati substation

iii. Re-conductoring of BTPS – Salakati 220kV D/c line with Single HTLS conductor (Ampacity of single HTLS shall be 1596A – equivalent to Twin ACSR Moose cond. for 45°C ambient and 85°C maximum conductor temperature) along with upgardation of 2 nos. of 220kV bays each at BTPS & Salakati substation

iv. Re-conductoring of Dimapur – Imphal 132kV S/c line with Single HTLS conductor and strengthening of tower, wherever required (Ampacity of single HTLS shall be 798A – equivalent to Single ACSR Moose cond. for

45°C ambient and 85°C maximum conductor temperature) along with upgradation of associated bays along with upgardation of 1 no. of 132kV bay each at Dimapur & Imphal* substation

**Conversion of 132kV level of 400/132/33kV Imphal S/s is also being taken up in NERSS-XIII. Accordingly, upgradation at Imphal may be carried out considering the same*

v. Re-conductoring of Loktak – Jiribam 132kV S/c line with Single HTLS conductor and strengthening of tower, wherever required (Ampacity of single HTLS shall be 798A – equivalent to Single ACSR Moose cond. for 45°C ambient and 85°C maximum conductor temperature) along with upgardation of 1 no. of 132kV bay each at Loktak & Jiribam substation

Subsequently, due to the technical difficulties (mainly associated with limitation in existing tower) in achieving the approved current rating through HTLS and considering power flow requirement as per studies, it was agreed in a meeting taken by CEA on 21-12-2020 that the following ampacity (**mentioned in column E below**) of HTLS conductors for above lines in NER meets the technical requirement:

Sl. No.	Name of transmission line	Ampacity of existing ACSR sub-conductor (A)	Ampacity of Single HTLS Conductor as per MoP order dated 25.09.2020 (A)	Ampacity of single HTLS sub-conductor agreed considering technical constraints and system requirement (A)
(A)	(B)	(C)	(D)	(E)
1	400kV D/C Siliguri-Bongaigaon line (Twin ACSR Moose)	707	1596	1400
2	220kV D/C Alipurduar-Salakati line (Single ACSR Zebra)	451	1596	1100
3	220kV D/C BPTS-Salakati line (Single ACSR Zebra)	451	1596	1100
4	132kV S/C Dimapur-Imphal line (Single ACSR Panther)	93	798	450
5	132kV S/C Loktak-Jiribam line (Single ACSR Panther)	185	798	600

(iii) North Eastern Region Strengthening Scheme – XIII (NERSS-XIII)

i. Conversion of 132kV bus at Nirjuli (POWERGRID) S/s

- Conversion of 132kV level of 132/33kV Nirjuli (POWERGRID) S/s to Double Main Bus Scheme through GIS.

ii. Conversion of 132kV bus at Imphal (POWERGRID) S/s

- Conversion of old (more than 25 years) 132kV bus section of 400/132/33kV Imphal (POWERGRID) S/s to Double Main Bus Scheme

through GIS and new 132kV bus section to Double Main Bus Scheme through AIS

(iv) North Eastern Region Strengthening Scheme – XIV (NERSS-XIV)

i. LILO of Palatana – Surajmaninagar (ISTS) 400kV D/c line at 400/132kV Surajmaninagar (TSECL) S/s
ii. 4 nos. of 400kV line bays at Surajmaningar (TSECL) S/s for termination of above LILO

B. <u>TBCB</u>

(i) Establishment of new 220/132kV substation at Nangalbibra

i. Establishment of new 220/132kV, 2x160MVA substation at Nangalbibra
ii. Bongaigaon (POWERGRID) – Nangalbibra 400kV D/c line (initially operated at 220kV) alongwith associated bays at both ends
iii. Hastinghmari (Assam) – Ampati (Meghalaya) 132kV D/c line alongwith associated bays at both ends

Note:

(i) *POWERGRID to provide space for extension at Bongaigaon (POWERGRID) S/s: 2 No. of 220kV line bays for termination of Bongaigaon (POWERGRID) – Nangalbibra 400kV D/c line (initially operated at 220kV)*

(ii) *AEGCL/Assam to provide space for extension at Hatsinghmari (Assam) S/s: 2 No. of 132kV line bays for termination of Hatsinghmari (Assam) – Ampati (Meghalaya) 132kV D/c line.*

(iii) *MePTCL/Meghalaya to provide space for extension at Ampati (Meghalaya) S/s: 2 No. of 132kV line bays for termination of Hatsinghmari (Assam) – Ampati (Meghalaya) 132kV D/c line.*

1.1. Further, following ISTS schemes were approved in the 2nd meeting of North Eastern Regional Power Committee (Transmission Planning) held on 25.09.2020 through Video Conference. Such schemes requiring approval of TCC & NERPC are given below:

(i) North Eastern Region Strengthening Scheme – XV (NERSS-XV)

i. Upgradation of existing 132kV Namsai (POWERGRID) S/s to 220kV (with 220kV side as GIS) with installation of 2x160MVA, 220/132kV ICTs alongwith associated bays and space for 4 no. future line bays
ii. Installation of 1x31.5MVAr, 245kV bus Reactor alogwith associated GIS bay at Namsai (POWERGRID) S/s

iii. Kathalguri (NEEPCO) – Namsai (POWERGRID) 220kV D/c line along with associated GIS line bays at both ends

(ii) Modification in already approved North Eastern Region Strengthening Scheme – IX (NERSS-IX)

i. Construction of 2 no. 132kV **GIS** bays at Nirjuli S/s for termination of LILO of one circuit of Pare HEP - North Lakhimpur (AEGCL) 132kV D/c line (with ACSR Zebra).

(iii) Shifting of Surajmaninagar (TSECL) – Comilla (Bangladesh) 400kV cross border link to Surajmaninagar (ISTS)

1. Shifting of Surajmaninagar (TSECL) – Comilla (Bangladesh) 400kV D/c (operated at 132kV) line to Surajmaninagar (ISTS) and operation as Surajmaninagar (ISTS) – Comilla (Bangladesh) 400kV D/c (operated at 132kV) line
2. 2 no. 132kV line bays at Surajmaninagar (ISTS) 400/132kV S/s for termination of Surajmaninagar (ISTS) – Comilla (Bangladesh) 400kV D/c (operated at 132kV) line

Note: *Shifting will be carried out after expiry of present contract (i.e. March 2021) of export of 160MW from Tripura to Bangladesh.*

Placed for approval of TCC/NERPC.

Deliberation of the TCC

TCC noted and recommended for approval of RPC for above elements except for the following which have not been agreed by TSECL and hence referred back to NERPC-TP for deliberation:

Under North Eastern Region Strengthening Scheme – XIV (NERSS-XIV)

i. LILO of Palatana – Surajmaninagar (ISTS) 400kV D/c line at 400/132kV Surajmaninagar (TSECL) S/s

ii. 4 nos. of 400kV line bays at Surajmaningar (TSECL) S/s for termination of above LILO

Under North Eastern Region Strengthening Scheme – XV (NERSS-XV)

(i) Shifting of Surajmaninagar (TSECL) – Comilla (Bangladesh) 400kV cross border link to Surajmaninagar (ISTS)

1. Shifting of Surajmaninagar (TSECL) – Comilla (Bangladesh) 400kV D/c (operated at 132kV) line to Surajmaninagar (ISTS) and operation as Surajmaninagar (ISTS) – Comilla (Bangladesh) 400kV D/c (operated at 132kV) line
2. 2 no. 132kV line bays at Surajmaninagar (ISTS) 400/132kV S/s for termination of Surajmaninagar (ISTS) – Comilla (Bangladesh) 400kV D/c (operated at 132kV) line

Deliberation of the RPC

The RPC noted and approved the recommendation of TCC.

ITEM NO. B.07	**:**	**APPROVAL OF SCHEMES APPROVED IN THE 1ST NERPC-TP - NERPC**

Scheme for relieving congestion in Agia Substation of Assam was approved in the 1st NERPCTP. The same is put up for TCC/RPC approval.

A. Under ISTS

a) Establishment of new 220/132kV, 2x160MVA substation at Nangalbibra

220kV:

- ICTs: 220/132kV, 2x160MVA
- ICT bays: 2 no.
- Line bays: 2 no. [for termination of Bongaigaon (POWERGRID) – Nangalbibra 400kV D/c line (initially operated at 220kV) – under this scheme]
- Bus Reactors: 2x31.5MVAr
- Bus reactor bays: 2 no.
- Space for future line bays: 6 no. [2 no. for termination of Mawngap (Meghalaya) – Nangalbibra (Meghalaya) 220kV D/c line of MePTCL and 4 no. for future lines]

132kV:

- ICT bays: 2 no.