Subject: Notice for 54th Commercial Sub-committee meeting of ERPC

The **54th Commercial Sub-committee meeting** of ERPC is scheduled to be held on **5th August, 2025 (Tuesday) at 11:30 AM through virtual mode (MS Team Online Platform)**.

The following issues will be mainly discussed:

1. Allocation of 15% Unallocated Power of Patratu TPS subsequent to submission of non-willingness by most of the states of ER.

2. Allocation of 15% Unallocated Power of Buxar TPP subsequent to submission of non-willingness by most of the states of ER.

3. Willingness of West Bengal to take the Unallocated Power of both Patratu TPS and Buxar TPP.

4. DVC have expressed their willingness to avail of 360 MW power from the 15% unallocated power of Patratu TPS Stage-I.

5. Willingness/Unwillingness for availing power from Luhri stage-I, Sunni Dam and Arun-III Hydro Power Projects of SJVN.

6. Implementation of Section F of the Procedure of Electricity (Late Payment Surcharge and Related matters) Rules, 2022 and Amendment thereof w.e.f. 01.08.2025.

7. WR-ER Inter-Regional Network Expansion Scheme (Part-A) - To alleviate critical loading issue in WR-ER corridors in present as well as in future time frame and evacuation of power from (2x800 MW) Raigarh TPS of APL at Raigarh (Kotra) - II S/s, Korba Power Limited (2x660 MW) at Champa S/s and at Korba Power Limited (2x800 MW) at Dharamjaygarh S/s. (Letter of CTU alongwith details of the scheme attached for reference).

The Meeting link would be shared in due course.

It is requested to kindly make it convenient to be present in the online meeting along with concerned officer for resolution of key commercial issues.

सेंट्रल ट्रांसमिशन यूटिलिटी ऑफ इंडिया लिमिटेड
(पावर ग्रिड कॉर्पोरेशन ऑफ इंडिया लिमिटेड के स्वामित्व में)
(भारत सरकार का उद्यम)
CENTRAL TRANSMISSION UTILITY OF INDIA LTD.
(A wholly owned subsidiary of Power Grid Corporation of India Limited)
(A Government of India Enterprise)

Ref: CTU/E/00/ERPC_WRPC/IR_link

Date: 30-07-2025

Member Secretary Eastern Regional Power Committee (ERPC) 14, Golf Club Road, Tollygunge Kolkata-700033	**Member Secretary** Western Regional Power Committee (WRPC) F-3, MIDC Area, Marol, Opp. SEEPZ, Central Road, Andheri (East), Mumbai - 400 093

Subject: Agenda for forthcoming TCC - ERPC & TCC – WRPC Meetings – reg.

Dear Sir,

As you are aware, in order to alleviate critical loading issues in WR – ER corridors being observed in present and future time frames and as well as for evacuation of power from 2x800MW Raigarh TPS of APL at Raigarh (Kotra)-II) S/s, Korba Power Limited (2x660MW) at Champa S/s and & Korba Power Limited (2x800MW) at Dharamjaygarh S/s, WR-ER Inter-Regional Network Expansion Scheme have been planned.

The said scheme has been agreed in the 36th CMETS-WR meeting held from 26.05.2025 to 28.05.2025 & in 43rd CMETS-ER held on 29th May 2025. As per MoP's Office Order no. 15/3/2018-Trans-Pt(5) dated 28-10-2021 regarding "Re-constitution of the National Committee on Transmission (NCT) - reg.", for schemes costing more than ₹500 Cr. CTU has to submit the scheme to NCT for their consideration after consulting the RPC. It may be noted that **Adani Power Limited** applied for grant of connectivity for 1600MW quantum for its 2x800MW Raigarh TPS. The start date of connectivity requested by the applicant is **01-07-2027.** A part of this scheme is envisaged as ATS for the subject connectivity grant.

In view of the above, it is requested that the above scheme may be taken up for deliberations in the forthcoming meeting of ERPC & WRPC and observations/views may be communicated to CTU for further processing of the scheme. Considering the urgent requirement, it is requested that special RPC meeting may be convened at the earliest, preferably through VC, so that the scheme can be forwarded to NCT in time bound manner. Details of the said scheme as per requisite format of NCT are annexed herewith as **Annexure-I.**

Thanking you.

Yours faithfully,

राजेश कुमार
30/07/2025

(**Rajesh Kumar**)
Senior General Manager (TP-III & CP)

Copy To:
Chief Engineer
National Power Committee (NPC)
Central Electricity Authority
Sewa Bhawan, R.K.Puram
New Delhi-110066

Annexure-I

Agenda for ERPC & WRPC

Name of scheme: WR-ER Inter-Regional Network Expansion Scheme (Part-A)

Sl. No.	Items	Details
1.	**Name of scheme**	WR-ER Inter-Regional Network Expansion Scheme (Part-A)
2.	**Scope of the scheme**	Brief scope of works is given below. i. Establishment of 2x1500MVA, 765/400kV new S/s at Jamshedpur (New) in Jharkhand. ii. Establishment of 3x1500MVA, 765/400kV new S/s at Raigarh (Kotra)-II S/s in Chhattisgarh with 2x330 MVAR, 765 kV bus reactor and 2x125 MVAR, 420 kV bus reactor iii. Bypassing of Raigarh (Tamnar) – Dharamjaygarh (Sec-B) 765kV D/c line & Raigarh (Kotra) – Raigarh (Tamnar) 765kV D/c line at Raigarh (Tamnar) S/s so as to form at Raigarh (Kotra) – Dharamjaygarh (Sec-B) 765kV D/c line iv. LILO of Dharamjaygarh (Sec-B) – Jharsuguda (Sec-A) 765kV D/c line at Raigarh (Kotra) -II S/s v. Raigarh (Tamnar)@ - Raigarh (Kotra)-II S/s 765kV D/c line vi. 765kV, 330MVAr switchable line reactor along with associated bays in each line of Raigarh (Tamnar) – Jamshedpur (New) 765kV D/c line at Raigarh (Tamnar) end vii. Raigarh (Tamnar)@ – Jamshedpur (New) 765kV D/c line viii. LILO of Ranchi (New) – Medinipur 765kV D/c line at Jamshedpur (New) ix. LILO of Ranchi (New) – New PPSP 400kV D/c line at Jamshedpur (New) a) Jamshedpur (New) to LILO section towards Ranchi (New) needs to be implemented with Twin Moose b) Jamshedpur (New) to LILO section towards New PPSP needs to be implemented with Twin HTLS (ampacity of single HTLS as 1574A at nominal voltage)

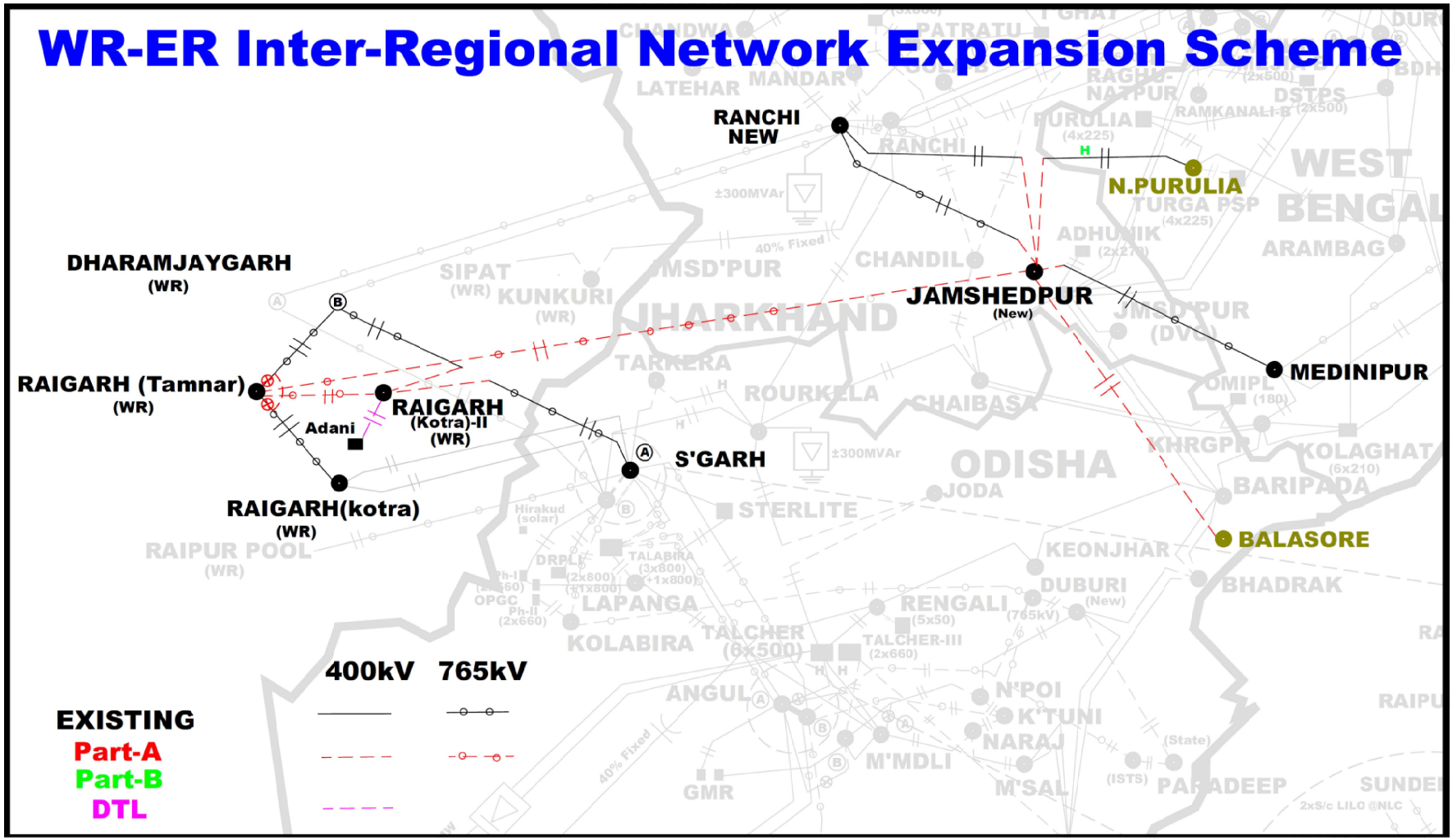
Sl. No.	Items	Details
		x. Extension at Jamshedpur (New) 765/400kV (ISTS) substation for implementation of 2 nos. 400kV line bays [for termination of Jamshedpur – Balasore 400kV D/c (Quad) line] xi. Jamshedpur (New) – Balasore 400kV D/c (Quad) line *@4 Nos. 765kV line bays vacated at Tamnar S/s after bypass arrangement to be utilized for line termination at Tamnar S/s. [Raigarh (Tamnar) – Dharamjaygarh (Sec - B) 765kV D/c line & Raigarh (Kotra) – Raigarh (Tamnar) 765kV D/c]* Detailed scope of works is enclosed at **Appendix-A.**
3.	**Depiction of the scheme on Transmission Grid Map**	Refer **Exhibit-1**.
4.	**Upstream/downstream system associated with the scheme**	**A.** Following ATS incl. terminal bays identified for Adani Power Limited (APL) (appl. No. 2200001709) under the subject transmission scheme is associated with 2x800MW Raigarh TPS of M/s APL: - 765/400kV, 3x1500MVA ICT (10x500MVA single phase units) - 765kV ICT bays: 3 nos. - 400kV ICT bays: 3 nos. - 400kV line bays: 2 nos. [for interconnection of 2x800MW Raigarh TPS of APL to Raigarh(Kotra)-II 400kV D/c line] **B.** Scope under OPTCL (STU of Odisha): OPTCL needs to implement 2 nos. 400kV line bays along with 1x80MVAr switchable line reactor at its planned Balasore 400/220kV S/s for termination of Jamshedpur (New) – Balasore 400kV D/c (Quad) line. Balasore (OPTCL) 400/220kV S/s is yet to be awarded. The expected commissioning schedule is Mar 2029 as per OPTCL.
5.	**Objective / Justification**	A joint study meeting was held on 20-01-2025, wherein an additional 765kV corridor between ER and WR was identified to relieve the loading of various 765kV and 400kV lines in the WR-ER and nearby 400kV corridors in the peak solar scenario in 2028-29 timeframe. It was observed that Ranchi – Dharamjaygarh 765kV 2XS/c line, Ranchi – Sipat 400kV D/c line and Ranchi New – New PPSP 400kV D/c lines are getting critically loaded under N-1 contingency. In order to relieve the critical loading on the above mentioned lines, a new

Sl. No.	Items	Details
		ISTS 765/400kV S/s has been planned in Jamshedpur area through Tamnar (POWERGRID) – Jamshedpur (New) 765kV D/c line along with LILO of Ranchi (New) – Medinipur 765kV D/c existing line at Jamshedpur (New), LILO of Ranchi (New) – New PPSP 400kV D/c existing line at Jamshedpur (New) and Jamshedpur (New) – Balasore 400kV D/c (Quad) line. Subsequently, Adani Power Limited applied for grant of connectivity for 1600MW quantum for its 2x800MW Raigarh TPS on 29.01.2025 under GNA in Pussore, Raigarh, Chhattisgarh. Further, new connectivity/GNA applications have also been received in Chhattisgarh from: 1. Korba Power Limited (Erstwhile Lanco Amarkantak) (2x660MW) which is proposed for grant at Champa 400kV Sec-B (with KSK 3x600MW Units & Lara-II (2x800MW) generating stations) 2. Korba Power Limited (2x800MW) which is proposed for grant at Dharamjaigarh 400kV Sec-B There is no margin for injection left at Raigarh(Kotra) substation for injection of power, as any injection at 400kV level of Raigarh(Kotra) S/s leads to N-1 non-compliance of 765/400kV ICTs [especially under Raigarh-Pugalur HVDC reverse power flow scenario (3000MW reversal)] and any additional interconnection of generation project shall lead to increase in fault level at Raigarh(Kotra) S/s beyond its design limits of 50kA. Further, there is no space available at Raigarh(Kotra) S/s for any augmentation. Moreover, overloading issues on Raigarh (Tamnar) – D'jaigarh (Sec-B) 765kV D/c line as well as Sipat – Ranchi 400kV D/c line are also being observed in the planning studies) and measures are being planned to alleviate the same. In order to alleviate overloading issues in WR – ER corridors and as well as to facilitate evacuation of power from 2x800MW Raigarh TPS of APL at Raigarh (Kotra)-II, Korba Power Limited (2x660MW) at Champa and & Korba Power Limited (2x800MW) at Dharamjaygarh Substation, subject scheme in WR as well as IR link between WR & ER have been planned.

Sl. No.	Items	Details
		The said scheme has been agreed in the 36th CMETS-WR meeting held from 26.05.2025 to 28.05.2025 & in 43rd CMETS-ER held on 29th May 2025. There is Part-B of the scheme which includes reconductoring of LILO point to New PPSP line section of Ranchi (New) – New PPSP 400kV D/c line with Twin HTLS (ampacity of single HTLS as 1574A at nominal voltage level), which is being taken up separately with commissioning matching with Part-A of the scheme. Detailed scope of works is enclosed at **Appendix-A**.
6.	**Estimated Cost**	About ₹ 7037.27 Cr. (including Rs. 415.44 Cr as the cost of ATS identified for Adani Power Limited)
7.	**Impact on the total Annual Transmission Charges in % along with the existing ATC**	A. ATC (considering levelized tariff @15% of estimated cost): ₹ 1055.59Cr. B. Present ATC: ₹46084.29 Cr.* C. A/B: 2.29%
8.	**Need of phasing, if any**	Nil
9.	**Implementation timeframe**	**Element at Sl. No. i) to ix):** 24 months from date of allocation **Element at Sl. No. x) & xi):** 31-03-2029
10.	**Inclusion of any wild life/ protected area along the transmission line route**	No major NP, WLS, other protected areas observed. However, for details of other forest/protected areas survey is required to be done.
11.	**Deliberations with RPC along with their comments**	**RPCs may add their deliberations here.**
12.	**System Study for evolution of the proposal**	Refer **Exhibit-2**.

**Total YTC allowed for June 2025, as per notification of transmission charges payable by DICs for billing month of August 2025 dated 25-07-2025 published on NLDC website (available @* https://webcdn.grid-india.in/files/grdw/2025/07/Notification%20of%20Transmission%20charges%20for%20DICs%20for%20the%20billing%20month%20of%20August,2025_725.pdf *)*

Exhibit-1


WR-ER Inter-Regional Network Expansion Scheme
RANCHI NEW
N.PURULIA
DHARAMJAYGARH (WR)
JAMSHEDPUR (New)
MEDINIPUR
RAIGARH (Tamnar) (WR)
RAIGARH (Kotra)-II (WR)
Adani
S'GARH
RAIGARH(kotra) (WR)
BALASORE
400kV
765kV
EXISTING
Part-A
Part-B
DTL

Appendix-A

WR-ER Inter-Regional Network Expansion Scheme (Part-A)

Sl. No.	Scope of works	Capacity (MVA) / Line length (km)/ Nos.
1.	Establishment of new 2x1500MVA, 765/400kV S/s at Jamshedpur in Jharkhand **Additional space for future expansion**: - 765/400kV, 4x1500MVA (12x500MVA single phase units) ICTs along with associated ICT bays at both voltage levels - 400/220kV, 6x500MVA ICTs along with associated ICT bays at both voltage levels - 765kV, 2x330MVAr (6x110MVAr single phase units) bus reactor along with associated bay - 420kV, 2x125MVAr bus reactor along with associated bay - 765kV line bays (along with space for switchable line reactor) for future lines: 8 nos. - 400kV line bays (along with space for switchable line reactor) for future lines: 10 nos. - 220kV line bays for future lines: 12 nos. - 765kV bus sectionaliser bay: 1 set - 400kV bus sectionaliser bay: 1 set - 220kV bus sectionaliser bay: 1 set - 220kV bus coupler bay: 1 set - 220kV transfer bus coupler bay: 1 set	- 765/400kV, 2x1500MVA ICT (7x500MVA single phase units) - 765kV, 2x330MVAr bus reactor (7x110MVAr single phase units) - 420kV, 125MVAr bus reactor: 2 nos. - 765kV ICT bays: 2 nos. - 765kV Bus reactor bays: 2 nos. - 400kV ICT bays: 2 nos. - 400kV Bus reactor bays: 2 nos. - 765kV line bays: 6 nos. (2 nos for Jamshedpur – Tamnar 765kV D/c line and 4 nos for LILO of Ranchi (New) – Medinipur 765kV D/c line) - 400kV line bays: 4 nos. [for LILO of Ranchi (New) – New PPSP 400kV D/c line] - 765kV, 330MVAr (3x110MVAR single phase units) switchable line reactor along with associated bays in each circuit of Raigarh (Tamnar) – Jamshedpur 765kV D/c line
2.	Establishment of 3x1500MVA, 765/400kV S/s at Raigarh(Kotra)-II S/s in Chhattisgarh with 2x330 MVAR, 765 kV bus reactor and 2x125 MVAR, 420 kV bus reactor (on 765kV Bus section-II & 400kV Bus Section-II) **Additional space for future expansion**: - Creation of 1100kV level - 1100kV bus sectionaliser bay: 1 set (to establish Sec-I & Sec-II) - 400kV bus sectionaliser bay :3 sets (to establish Sec-I, Sec-III & Sec-IV) - 1100/400kV, 6x3000MVA (19x1000 MVA single phase units) ICTs along with associated ICT bays. • 1100kV side: - 3 nos. on Bus Sec-I & 3 nos on Bus Sec-II)	**<u>ATS incl. terminal bays identified for Adani Power Limited (appl. No.2200001709):</u>** - 765/400kV, 3x1500MVA ICT (10x500MVA single phase units) - 765kV ICT bays: 3 nos. - 400kV ICT bays: 3 nos. - 400kV line bays: 2 nos. [for interconnection of 2x800MW Raigarh TPS of APL to Raigarh(Kotra)-II 400kV D/c line] **<u>Common Transmission System Augmentation:</u>** - 765kV, 2x330MVAr bus reactor (7x110MVAr single phase units) - 420kV, 125MVAr bus reactor: 2 nos.

Sl. No.	Scope of works	Capacity (MVA) / Line length (km)/ Nos.
	• 400kV side:- 3 nos. on Bus Sec-III & 3 nos. on Bus Sec-IV) - 1100kV line bays (along with space for switchable line reactor) for future lines: 12 nos. (6 nos. on Bus Sec-I & 6 nos. on Bus Sec-II) - 1200kV, 4x660MVAr (13 x 220MVAR single phase units) bus reactor along with associated bays (2 nos. on Bus Sec-I & 2 nos. on Bus Sec-II) - 765kV bus sectionaliser bay: 1 set (to establish Sec-I) - 765/400kV, 5x1500MVA (15 x 500 MVA single phase units) ICTs along with associated ICT bays • 765kV side: - 4 nos. on Bus Sec-I & 1 nos. on Bus Sec-II) • 400kV side: - 4 nos. on Bus Sec-I & 1 nos. on Bus Sec-II) - 765kV, 2x330MVAr (6 x 110MVAr single phase units) bus reactor along with associated bay (on Bus Sec-I) - 420kV, 6x125MVAr bus reactor along with associated bay (2 on Bus Sec-I; 2 on Bus Sec-III & 2 on Bus Sec-IV) - 765kV line bays (along with space for switchable line reactor) for future lines: 6 nos. (6 on Bus Sec-I) - 400kV line bays (along with space for switchable line reactor) for future lines: 10 nos. (6 on Bus Sec-I; 4 on Bus Sec-II, (6 on Bus Sec-III & 6 on Bus Sec-IV,) - Establishment of 6000 MW, ± 800 kV Raigarh (HVDC) [LCC] terminal station (4x1500 MW) along with associated interconnections with 400 kV HVAC Switchyard (2x1500 MW on 400 kV Sec-III along with associated 4 no. bays & 2x1500 MW on 400 kV Sec-IV along with associated 4 no. bays) & all associated equipment (incl. filters)/bus extension, etc.	- 765kV Bus reactor bays: 2 nos. - 400kV Bus reactor bays: 2 nos. - 765kV line bays: 6 nos. (2 nos for Raigarh (Tamnar) - Raigarh(Kotra)-II 765kV D/c line and 4 nos. for LILO of LILO of D'jaygarh (Sec-B) – Jharsuguda 765kV D/c line 765kV D/c line) - 765kV, 240MVAr (3x80MVAr single phase units) switchable line reactor along with associated bays in each circuit of Raigarh (Kotra)-II – Jharsuguda-A 765kV D/c section along with 1x80MVAr 765kV spare reactor
3.	Bypassing of Raigarh (Tamnar) – Dharamjaygarh (Sec-B) 765kV D/c line & Raigarh(Kotra) – Raigarh (Tamnar) 765kV D/c line at Raigarh (Tamnar) S/s so as to form at	10km (Route length)

Sl. No.	Scope of works	Capacity (MVA) / Line length (km)/ Nos.
	Raigarh (Kotra) – Dharamjaygarh (Sec-B) 765kV D/c line [Final length of Raigarh (Kotra) – Dharamjaygarh (Sec-B) 765kV D/c line after bypassing~115km]	
4.	LILO of D'jaygarh (Sec-B) – Jharsuguda (Sec-A) 765kV D/c line at Raigarh (Kotra)-II S/s	LILO length ~40 km
5.	Raigarh (Tamnar)[@]- Raigarh(Kotra)-II S/s 765kV D/c line	50km
6.	765kV, 330MVAr switchable line reactor along with associated bays in each line of Raigarh(Tamnar) – Jamshedpur 765kV D/c line at Raigarh(Tamnar) end	- 765kV, 330MVAr switchable line reactors – 2 Nos. - Switching equipment for line reactors – 2 Nos. - 765kV spare reactor: 1x110MVAr
7.	Raigarh(Tamnar)[@] – Jamshedpur 765kV D/c line	315km
8.	LILO of Ranchi (New) – Medinipur 765kV D/c line at Jamshedpur (New)	51km and 49km
9.	LILO of Ranchi (New) – New PPSP 400kV D/c line at Jamshedpur (New) (a) Jamshedpur (New) to LILO section towards Ranchi (New) needs to be implemented with Twin Moose (b) Jamshedpur (New) to LILO section towards New PPSP needs to be implemented with Twin HTLS (ampacity of single HTLS as 1574A at nominal voltage)	63km Twin Moose 63km Twin HTLS
10.	Extension at Jamshedpur (New) 765/400kV (ISTS) substation	400kV line bays: 2 nos. [for Jamshedpur – Balasore 400kV D/c (Quad) line]
11.	Jamshedpur (New) – Balasore 400kV D/c (Quad) line	174km

Note:

1. *[@]4 Nos. 765kV line bays vacated at Raigarh (Tamnar) S/s after bypass arrangement to be utilized for line termination at Tamnar S/s. [Raigarh (Tamnar) – Dharamjaygarh (Sec -B) 765kV D/c line & Raigarh(Kotra) – Raigarh (Tamnar) 765kV D/c]*
2. *TSP shall implement Inter-tripping scheme on D'jaygarh (Sec-B) – Raigarh (Kotra)-II 765 kV D/c line (for tripping of the switchable line reactor at D'jaygarh (Sec-B) end along with the main line breaker).*
3. *TSP of the subject scheme shall implement Inter-tripping scheme on Raigarh (Kotra)-II – Jharsuguda 765 kV D/c line (for tripping of the switchable line reactor at Raigarh (Kotra)-II end along with the main line breaker).*
4. *OPTCL shall implement 2 nos. 400kV line bays along with 1x80MVAr switchable line reactor at its planned Balasore 400/220kV S/s for termination of Jamshedpur (New) – Balasore 400kV D/c (Quad) line. Balasore (OPTCL) 400/220kV S/s is yet to be*

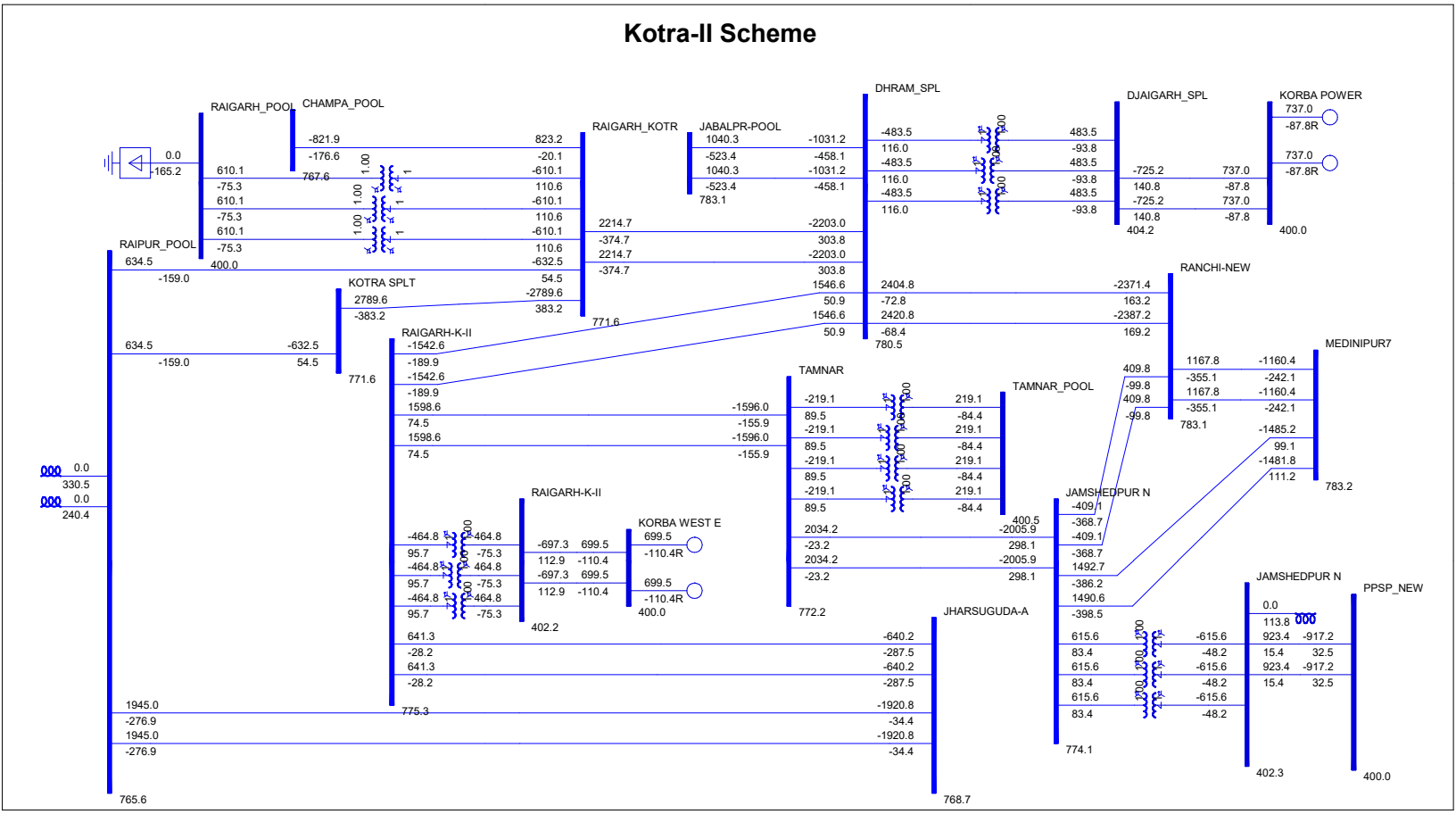
awarded. However, the expected commissioning schedule is 31-03-2029, as per OPTCL.

Completion Schedule:

- **Elements at Sl. No. 1 to 9:** 24 months from date of allocation.
- **Elements as Sl. No. 10 & 11**: 31-03-2029.

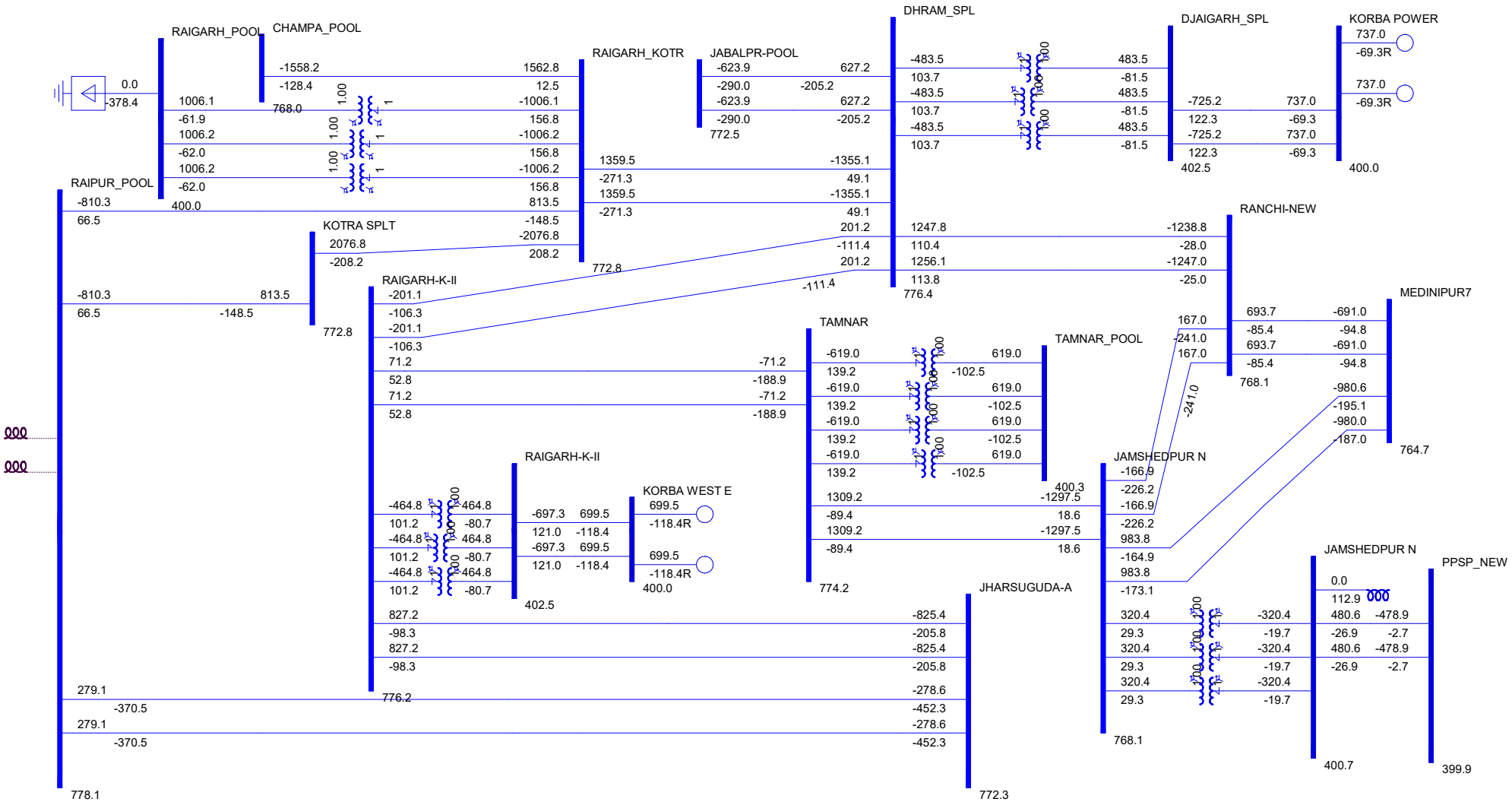
Exhibit-2

Sc-4 Base Case



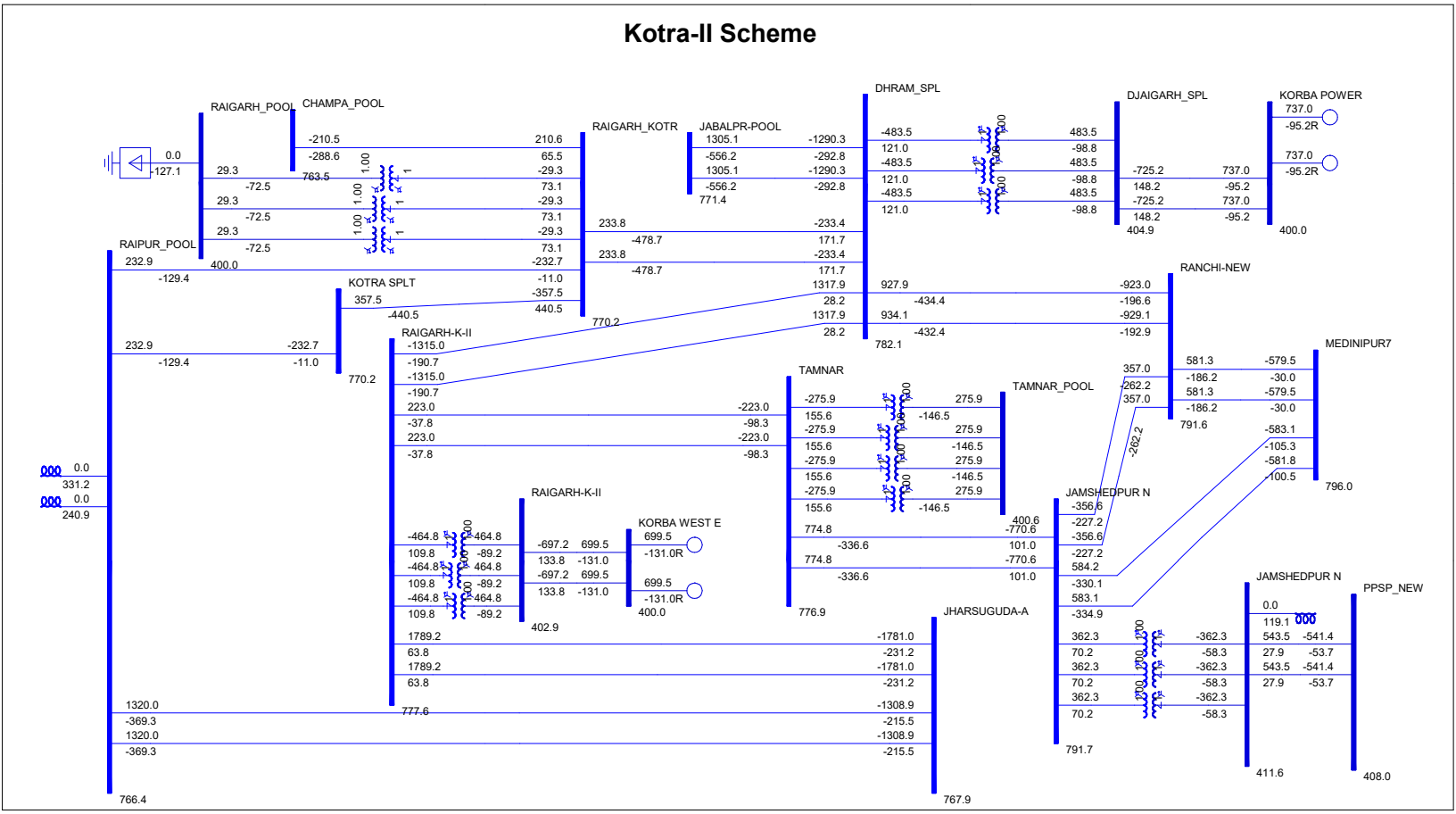
Sc-5 Base Case

Kotra-II Scheme



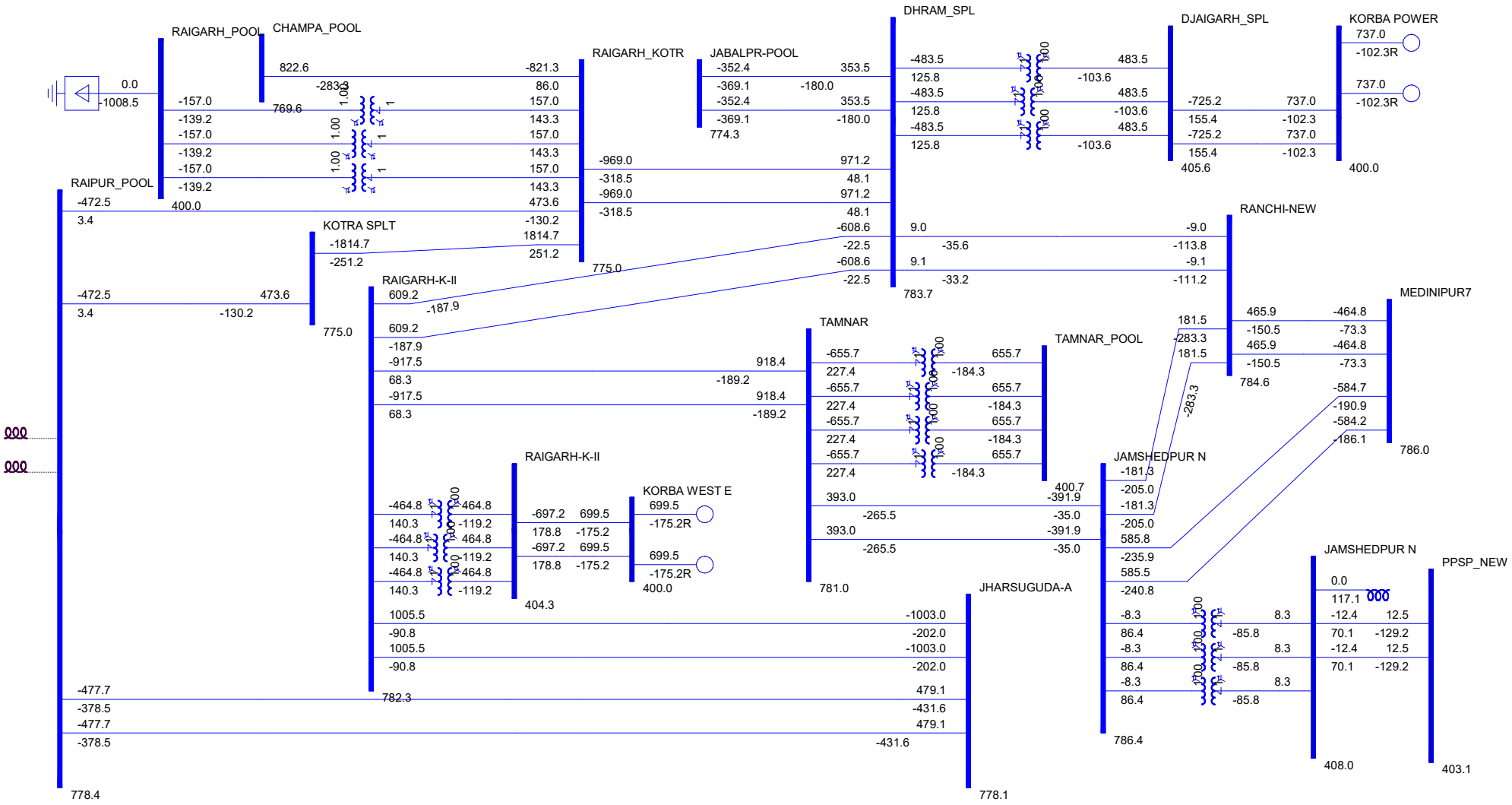
Sc-7Base Case

Kotra-II Scheme



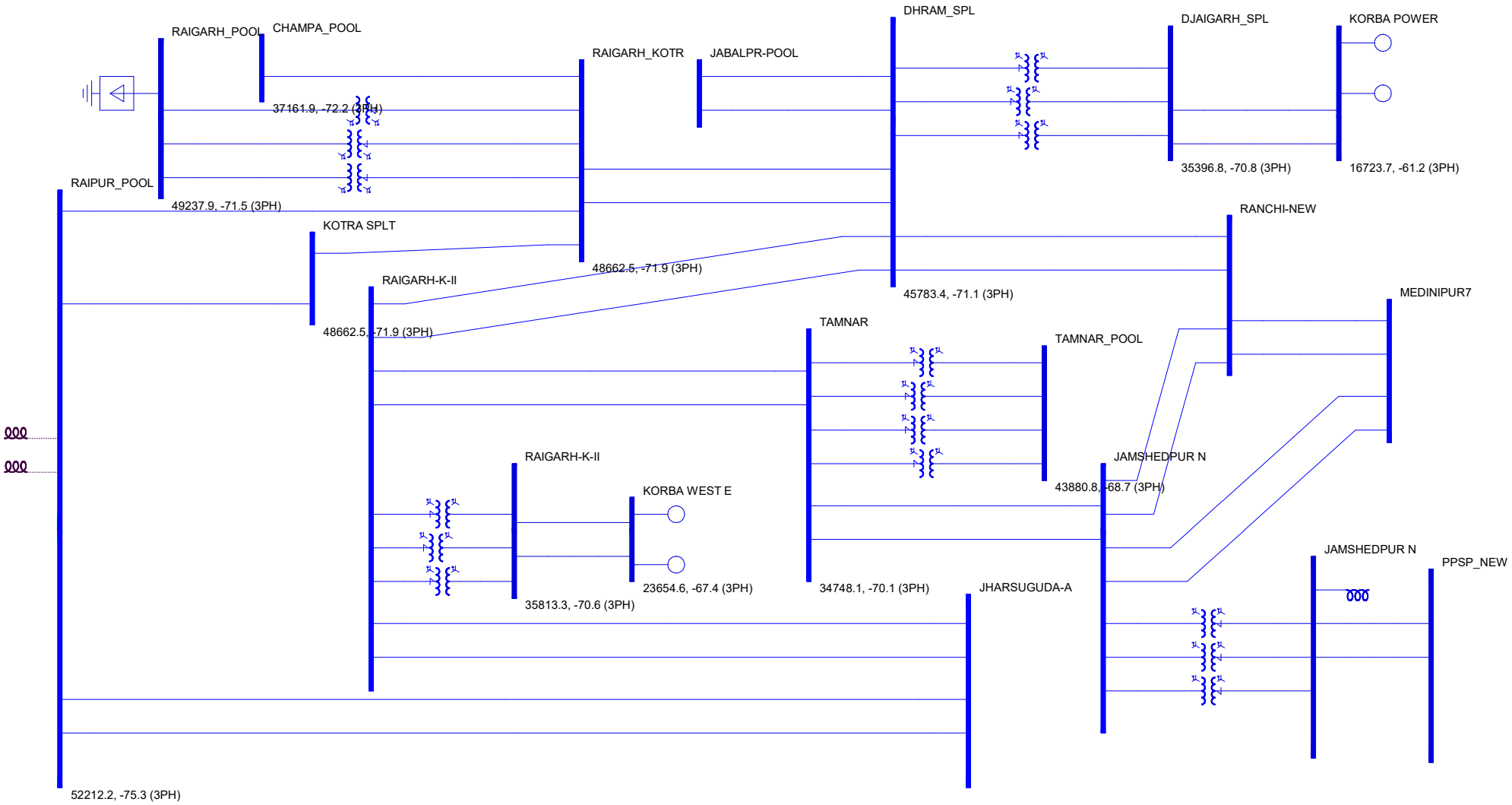
Sc-8 Base Case

Kotra-II Scheme

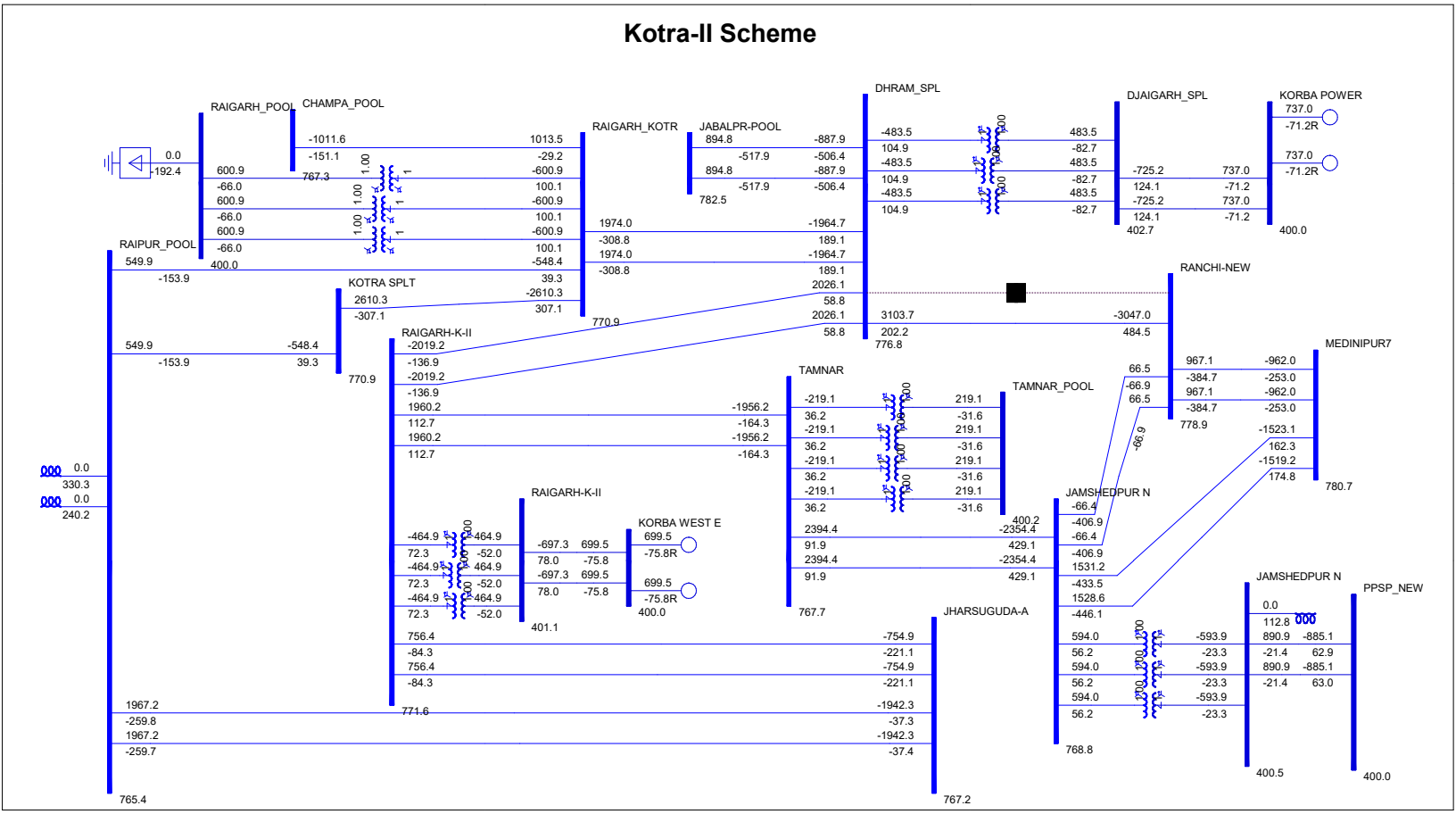


Sc-8 Short Ckt Level

Kotra-II Scheme



Sc-4 N-1 of Dharamjaygarh splt-Ranchi(New) 765kV D/c line



Sc-4 N-1 of Raipur Pool-Jharsuguda 765kV D/c line