भारत सरकार / Government of India

विद्युत मंत्रालय / Ministry of Power

पूर्वी क्षेत्रीय विद्युत समिति / Eastern Regional Power Committee

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No. ERPC/COMMERCIAL/CCM/2025-26/ 958 **Date: 07.08.2025**

To/सेवा में

As per List Attached/ संलग्न सूची के अनुसार।

Subject: Minutes of 54th Commercial Sub-committee meeting of ERPC - reg.

विषय: ईआरपीसी की 54वीं वाणिज्यिक उप-समिति बैठक का कार्यवृत्त - तत्संबंधी।

Sir,

The minutes of 54th Commercial Sub-Committee Meeting of ERPC held on 5th August, 2025 through virtual mode is enclosed for your kind information and necessary action, please.

5 अगस्त, 2025 को वर्चुअल मोड के माध्यम से आयोजित ईआरपीसी की 54वीं वाणिज्यिक उप-समिति बैठक का विवरण आपकी जानकारी और आवश्यक कार्रवाई के लिए संलग्न है।

This issues with the approval of Member Secretary.
यह सदस्य सचिव के अनुमोदन से जारी किया जाता है।

Encl: As above

Yours faithfully/ आपका विश्वासी

PRASUN KUMAR DE

Digitally signed by PRASUN KUMAR DE
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(P. K. De/ पी. के. दे)
SE(Commercial)/ एसई(वाणिज्यिक)

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7. Executive Director (C&R), JBVNL, Engineering Building, HEC, Dhurwa, Ranchi-834004
8. Chief Engineer (C&R), JBVNL, Engineering Building, HEC, Dhurwa, Ranchi-834004.
9. General Manager (Comml.), JBVNL, Engineering Building, HEC, Dhurwa, Ranchi-834004.
10. Chief General Manager (PP), GRIDCO, Bhubaneswar-751022
11. Chief General Manager (R&T), OPTCL, Bhubaneswar-751023
12. Asst. General Manager (F&A), Finance Wing, OHPC, Bhubaneswar
13. Sr. General Manager (Finance), OPGC, Odisha
14. Executive Director (RT), WBSEDCL, Kolkata
15. Chief Engineer (Commercial), WBSETCL, Bidyut Bhavan, Bidhannagar, Kolkata-700091
16. Chief Engineer, SLDC, WBSETCL, Howrah
17. General Manager (Commercial & Operations), WBPDCL, Kolkata
18. Chief Engineer (Trans), Deptt. Of Power, Govt. Of Sikkim, Gangtok-737201
19. Executive Director, ERLDC, Kolkata-700033
20. Director (GM), CEA, New-Delhi-110066
21. General Manager (Comml. -ER), NTPC, Corporate Centre, New Delhi.
22. AGM (Comml.), ER – I HQ, NTPC Ltd., Loknayak Jaiprakash Bhawan, 2nd Floor, Dak Banglow Chowk, Fraser Road, Patna – 800001.
23. AGM (Comml.), ER – II HQ, NTPC Ltd., 3rd, 4th & 5th Floor, OLIC Building, Nayapalli, Bhubaneshwar – 751012
24. Chief Engineer (Commercial), NHPC, Faridabad
25. GM(Comml.), ER-I, Powergrid, Patna
26. GM(Comml.), ER-II, Powergrid, Kolkata
27. GM (Comml.), Powergrid, Odisha Projects, Sahid Nagar, Bhubaneswar –751007.
28. ED(Commercial), PTC india Limited, 2nd Floor NBCC Tower, Bikaji Cama Palace, New Delhi-110066
29. GM (BD&PS), NVVN Ltd, Scope Complex, Core-3, 7th Floor, Lodhi Road, New Delhi-110003
30. General Manager (SO), CESC Ltd., Kolkata
31. Vice-President (OPN-ER), Tata Power Co. Ltd., Jamshedpur
32. Head (Commercial), MPL, MA-5 Gogna Colony, P.O- Maithon Dam, Jharkhand-828207
33. Associate Vice President (CC), GMR Kamalanga Energy Ltd. (GKEL), Bhubaneswar 42303994
34. ED (Power Sales), JIPL, Plot-12, Local Shopping Complex, Sector B-1, Vasant Kunj, New Delhi-110070
35. President (Commercial), APNRL, Crescent Tower, 3rd Floor, Kolkata-700020,
36. ED (Commercial), Sikkim Urja Limited, Barakhamba Road. New Delhi – 110001.
37. AGM, BRBCL, Nabinagar, Aurangabad BIHAR.
38. Head (Commercial), TPTCL, Tata Power Co Ltd, Shatabdi Bhawan, NOIDA – 201 301
39. ED, DANS Energy Pvt Ltd, Jorethang HEP, DLF Cyber City, Phase-II, GURGAON – 122 002
40. Director, Shiga Energy Pvt. Ltd., Tashiding HEP, 5th Floor, DLF Building No. 8, Tower-C, DLF Cyber City, Phase-II, Gurgaon – 122002

41. CEO, Sneha Kinetic Power Projects Pvt. Ltd., Dikchu HEP, #31 -A, National Highway, Behind SNOD building, Deorali, Gangtok, Sikkim-737102.
42. Head (Commercial), Gati Infrastructure Pvt. Ltd, Chuzachen HEP, Takchang, Sikkim 737106.
43. General Manager, Rongnichu HEP, MBPCL, Sikkim-737102
44. Associate Director (Commercial & Regulatory), DMTCL, Sekura Energy Limited, Mumbai
45. CEO, Adani Power Transmission Limited, Gujrat-382028
46. DGM, Sikkim Power Transmission Limited, New Delhi-110066
47. Head (Regulatory & Contract), IndiGrid Limited, Mumbai-400079
48. CEO, Cross Boarder Power Transmission Limited, Gurgaon-122001
49. Member Secretary, NRPC, New Delhi
50. Member Secretary, WRPC, Mumbai
51. Member Secretary, SRPC, Bangalore
52. Member Secretary, NERPC, Shillong
53. Member Secretary, NPC, CEA, New Delhi

<u>वितरण सूची-सीसी सदस्य:</u>

1. निदेशक (परियोजना), बीएसपीटीसीएल, विद्युत भवन, बेली रोड, पटना-800001।
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7. कार्यपालक निदेशक (सी एंड आर), जेबीवीएनएल, इंजीनियरिंग बिल्डिंग, एचईसी, धुर्वा, रांची-834004
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9. महाप्रबंधक (वाणिज्यिक), जेबीवीएनएल, इंजीनियरिंग बिल्डिंग, एचईसी, धुर्वा, रांची-834004।
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12. सहायक। महाप्रबंधक (एफ एंड ए), वित्त विंग, ओएचपीसी, भुवनेश्वर
13. वरिष्ठ महाप्रबंधक (वित्त), ओपीजीसी, ओडिशा
14. कार्यकारी निदेशक (आरटी), डब्ल्यूबीएसईडीसीएल, कोलकाता
15. मुख्य अभियंता (वाणिज्यिक), डब्ल्यूबीएसईटीसीएल, विद्युत भवन, बिधाननगर, कोलकाता-700091
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17. महाप्रबंधक (वाणिज्यिक एवं परिचालन), डब्ल्यूबीपीडीसीएल, कोलकाता
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19. कार्यकारी निदेशक, ईआरएलडीसी, कोलकाता-700033
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21. महाप्रबंधक (वाणिज्यिक-ईआर), एनटीपीसी, कॉर्पोरेट सेंटर, नई दिल्ली।
22. एजीएम (कॉमल.), ईआर - । मुख्यालय, एनटीपीसी लिमिटेड, लोकनायक जयप्रकाश भवन, दूसरी मंजिल, डाक बंगला चौक, फ्रेजर रोड, पटना - 800001।
23. एजीएम (वाणिज्य), ईआर - ॥ मुख्यालय, एनटीपीसी लिमिटेड, तीसरी, चौथी और पांचवीं मंजिल, ओएलआईसी बिल्डिंग, नयापल्ली, भुवनेश्वर - 751012
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25. जीएम (वाणिज्य), ईआर-I, पावरग्रिड, पटना
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28. ईडी (वाणिज्यिक), पीटीसी इंडिया लिमिटेड, दूसरी मंजिल एनबीसीसी टॉवर, बीकाजी कामा पैलेस, नई दिल्ली- 110066
29. जीएम (बीडी एंड पीएस), एनवीवीएन लिमिटेड, स्कोप कॉम्प्लेक्स, कोर-3, 7वीं मंजिल, लोधी रोड, नई दिल्ली-110003
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32. प्रमुख (वाणिज्यिक), एमपीएल, एमए-5 गोगना कॉलोनी, पी.ओ- मैथन डैम, झारखंड-828207
33. एसोसिएट उपाध्यक्ष (सीसी), जीएमआर कमलांगा एनर्जी लिमिटेड (जीकेईएल), भुवनेश्वर 42303994
34. ईडी (पावर सेल्स), जेआईपीएल, प्लॉट-12, लोकल शॉपिंग कॉम्प्लेक्स, सेक्टर बी-1, वसंत कुंज, नई दिल्ली-110070
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36. ईडी (वाणिज्यिक), सिक्किम ऊर्जा लिमिटेड, बाराखंभा रोड, नई दिल्ली – 110001।
37. एजीएम, बीआरबीसीएल, नबीनगर, औरंगाबाद बिहार।
38. प्रमुख (वाणिज्यिक), टीपीटीसीएल, टाटा पावर कंपनी लिमिटेड, शताब्दी भवन, नोएडा – 201 301
39. ईडी, डान्स एनर्जी प्राइवेट लिमिटेड, जोरेथांग एचईपी, डीएलएफ साइबर सिटी, फेज-II, गुड़गांव – 122 002
40. निदेशक, शिगा एनर्जी प्राइवेट लिमिटेड, ताशीडिंग एचईपी, 5वीं मंजिल, डीएलएफ बिल्डिंग नंबर 8, टावर-सी, डीएलएफ साइबर सिटी, फेज-II, गुड़गांव – 122002

41. सीईओ, स्नेहा काइनेटिक पावर प्रोजेक्ट्स प्राइवेट लिमिटेड। लिमिटेड, डिकचू एचईपी, #31-ए, राष्ट्रीय राजमार्ग, एसएनओडी बिल्डिंग के पीछे, देवराली, गंगटोक, सिक्किम-737102।
42. प्रमुख (वाणिज्यिक), गति इंफ्रास्ट्रक्चर प्राइवेट। लिमिटेड, चुजाचेन एचईपी, ताकचांग, सिक्किम 737106।
43. महाप्रबंधक, रोंगनिचू एचईपी, एमबीपीसीएल, सिक्किम-737102
44. एसोसिएट डायरेक्टर (वाणिज्यिक और विनियामक), डीएमटीसीएल, सेकुरा एनर्जी लिमिटेड, मुंबई
45. सीईओ, अदानी पावर ट्रांसमिशन लिमिटेड, गुजरात-382028
46. डीजीएम, सिक्किम पावर ट्रांसमिशन लिमिटेड, नई दिल्ली-110066
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48. सीईओ, क्रॉस बोर्डर पावर ट्रांसमिशन लिमिटेड, गुड़गांव-122001
49. सदस्य सचिव, एनआरपीसी, नई दिल्ली
50. सदस्य सचिव, डब्ल्यूआरपीसी, मुंबई
51. सदस्य सचिव, एसआरपीसी, बैंगलोर
52. सदस्य सचिव, एनईआरपीसी, शिलांग
53. सदस्य सचिव, एनपीसी, सीईए, नई दिल्ली

Minutes of the of 54th Commercial Sub-Committee Meeting

List of participants enclosed in Annexure - I.

Member Secretary, ERPC chaired the meeting.

SE (Comml.), ERPC welcomed the participants of the 54th CCM held on 5th August'2025 through online platform. Brief agenda points which will be discussed today were already communicated alongwith the notice of the meeting. Most importantly, the details of the scheme in connection with the agenda point "WR-ER Inter-Regional Network Expansion Scheme" was circulated along with the notice for study beforehand for fruitful discussion in meeting. Then he requested Member Secretary ERPC to say few words.

Member Secretary welcoming the participants expressed his gratitude to all the participants though the meeting is convened in short notice to discuss some important issues which were indicated in the brief agenda points circulated with the meeting notice and expressed that fruitful decision would be taken on the issues.

53rd CCM was held on 13th June 2025 and the minutes of the meeting was issued on 20th June 2025. No comments from any of the constituents was received on the same. Subsequently, 54th TCC and ERPC meeting were held on 23rd and 24th June 2025 at Chennai. Minutes of the meetings of 53rd CCM is taken as Confirmed.

Then pointwise discussion started.

Points for discussion:

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**

Deliberation in the meeting:

As point no. 1, 2, 3 & 4 are related to Unallocated Power allocation issue, all the four points were taken up simultaneously for discussion.

SE (Comml.) appraised the participants that Bihar, Jharkhand, Odisha and Sikkim have communicated that at this juncture they are not willing to avail any power from the 15% unallocated quota under Unallocated Pool power of ER from Patratu & Buxar. Only WBSEDCL has conveyed consent for allocation of 8.456% from unallocated power of Patratu & Buxar. They have requested for the waiver of STU charges & losses of the states for the said projects. MS, ERPC informed that waiver of STU charges & losses of the states is under the scope of respective states. However, in line with the discussion of 229th OCC meeting, a letter will be written by the Chairperson, ERPC to the respective states requesting for waiver of STU charges & losses of the states. But this procedure will take some time and even the outcome cannot be ensured and expressed that decision of availing

the UA power from Patratu & Buxar is to be taken by interested states under existing condition.

Accordingly, WBSEDCL was requested to express whether they are interested for remaining whole quantity beyond own share of 8.456%. In the response Chief Engineer, PTP, WBSEDCL requested for a formal communication from ERPC on the issue so that they can take up the matter with higher management. MS, ERPC informed that, matter is already recorded in the minutes of the 229th OCC Meeting, which may be considered as reference. However, he assured that, as per the request of CE (PTP), WBSEDCL, a letter will be sent to WBSEDCL today itself requesting to reply within 14th August 2025. PVUNL representative requested for an early reply as the first unit may be declared for COD very soon. MS, ERPC enquired about the present status of the PVUNL-Patratu line. As representative of JUSNL was not available, PVUNL representative apprised that line was idle charged on 3rd August 2025, but on 4th August the line was taken under shutdown. Their turbine of the first Unit rolled at 3000 rpm on 5th August 2025 and in the morning itself synchronised for a short period with the Grid. Although, they initially planned their trail run of their units from 6th August 2025 with anticipation that the line would be available on 31st July 2025, however the trial rum operation is planned to start very soon.

MS, ERPC apprised that DVC has expressed their willingness to enter into a long term PPA for procurement of 360 MW power from the 15% unallocated power of Patratu TPS Stage-I. Already**,** DVC wrote a letter to MOP on the issue. MOP sought the views of CEA and CEA in turn sought the inputs from ERPC. ERPC communicated the facts to CEA for further needful at their end.

On enquiry from MS, ERPC, representative of SJVN apprised that they have discussed the matter of availing remaining unallocated power (except West Bengal share) with DVC and expecting a reply from them within couple of days. MS, ERPC communicated that no unilateral allocation/ PPA may be done by the generator till issue of final order of allocation of UA Power by MoP/ CEA. On enquiry from MS, ERPC, representative of SJVN informed that they have planned to synchronise their first unit on 14th August 2025.

MS, ERPC once again requested CE(PTP), WBSEDCL to communicate their decision regarding availing of remaining power of UA Pool Power of ER from Patratu and Buxar at the earliest, and latest by 14th August 2025, so that a final decision could be arrived regarding the allocation by MoP / CEA.

Points for discussion:

5) **Willingness/Unwillingness for availing power from Luhri stage-I, Sunni Dam and Arun-III Hydro Power Projects of SJVN**
6) **SJVN put an agenda seeking consent for purchase of power from their following upcoming projects.**

Etalin HEP- 3097 MW, Arunachal Pradesh
Lower Arun HEP – 669 MW, Nepal
Upper Karnali HEP – 900 MW, Nepal

Deliberation in the meeting:

SE(Comml.), ERPC informed that IRP Div., CEA repeatedly sought the willingness/unwillingness of ER states for availing power from Luhri stage-I, Sunni Dam and Arun-III Hydro Power Projects of SJVN. Accordingly, ERPC sought the views of the states through mails. But ERPC is yet to receive any response from the states. However, only DVC communicated that they have already signed PPA with SJVN for long-term allocation of 210 MW from Luhri Stage-I and 115 MW from Sunni Dam and 200 MW from Arun-III HEP to DVC. He also informed that further communication has been received from SJVN requesting ER states to communicate their willingness/unwillingness for availing power from Etalin HEP- 3097 MW, Arunachal Pradesh, Lower Arun HEP – 669 MW, Nepal and Upper Karnali HEP – 900 MW, Nepal. The information shared by SJVN on these projects is enclosed in Annexure- II.

MS, ERPC emphasised for early response from states regarding their willingness/ unwillingness to avail power from Hydro plants being implemented by SJVN.

CE (PTP), WBSEDCL enquired about the tentative tariff of these plants as per latest cost estimates, and whether procuring power from the plants located in Nepal/ Cross Border will comply with the fulfilment of Hydro Power Obligation (HPO). In response SJVN stated that immediately they are not in a position to provide the tariff details. SE (Comml.) ERPC requested SJVN to provide the tentative tariff while offering the power to states from any of their new projects so as to enable them to take decision. In the matter of HPO, representative of SJVN cited a letter of MoP under F.No.14-37/39/2021-H.I(267367) dated 17th November 2023 wherein it is mentioned that "as per the Second Proviso to Note 3 of para 1 of the Ministry of Power's Notification dated 20th October 2023, the hydro renewable energy component may also be met from Hydro Power Projects located outside India as approved by the Central Government on a case-to-case basis."
MS, ERPC requested SJVN to take up the matter with MoP and confirm the status of their project outside India in respect of HPO compliance while offering the Power to states and intimate projected tariff as per latest cost estimates since the estimated project cost as per DPR and approved PIB is more than 3 years old. SJVN agreed for the same.

Points for discussion:

7) **Implementation of Section F of the Procedure of Electricity (Late Payment Surcharge and Related matters) Rules, 2022 and Amendment thereof w.e.f. 01.10.2025**

Deliberation in the meeting:

SE (Comml.) apprised that this rule was supposed to be implemented from 1st August 2025 but deferred the implementation for further 2 months i.e. upto 30.09.2025 and requested all constituents to follow the revised procedure for implementation of LPS Rule 2022 and amendments thereof published by NLDC on 25th July 2025.

On LPS issue JIPL has raised some points (copy of letter of JIPL letter enclosed in Annexure - III) and explained the same. JIPL highlighted that they are unaware of URS

as beneficiary directly punch requisition in WBES. They requested that the requisition should also be sent through email to JIPL. ERLDC informed that communication through mail may cause unnecessary delay and not advisable. ERLDC informed that they may fetch requisition from WBES through API already made available to them by ERLDC and calculate URS using the same. This will automate the URS calculation process which shall be very helpful specially for bidding in RTM.

JIPL further mentioned that they face issue regarding fetching of NOC from NOAR. ERLDC mentioned that this is a rare issue and the software issue is already handled in LPS Procedure. ERLDC requested JIPL to provide details of past occurrences of such issues for their reference and analysis.

JIPL mentioned regarding operational issues like chances of DSM implication when URS bid in RTM is not cleared in alternate time blocks due to ramping implications.

JIPL enquired what to be done when power in Day Ahead Market cannot be curtailed or revised by the generator, how URS power will be provided when generator is under forced outage. ERLDC apprised that generator may purchase power to comply their obligation.

SE (Comml.) iterated that the philosophy and procedure already approved might not be possible to change at this stage. MS, ERPS added that JIPL may approach ERLDC with specific data and solve the matter bilaterally. If required ERLDC will take up the matter with NLDC accordingly.

Points for discussion:

8) WR-ER Inter-Regional Network Expansion Scheme (Part-A) (Detailed scheme is enclosed in Annexure - IV)

Deliberation in the meeting:

CTU was requested to explain the scheme. CTU stated that the scheme is already provided in the agenda and emphasised that the scheme is required to alleviate critical loading issue in WR-ER corridors in present condition 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.

MS, ERPC expressed that since the scheme has been discussed in various CMETS-ER meetings, its technical requirement has already been established. On query, CTU explained that in case there is mismatch between completion of Transmission Lines and Generating stns, the Transmission Assets shall be utilised for drawing of RE power from WR to ER. MS, ERPC further enquired whether APL is having any PPA with any distribution licensee in respect of their proposed power project. In response, CTU mentioned that APL will act as a merchant power generator and are eligible for connectivity. APL has already applied for grant of connectivity for 1600 MW quantum for its 2x800 MW Raigarh TPS. Further the states were requested to share their view if

any, about the scheme. ACE, WBSEDCL opined that Jamshedpur (New) to New PPSP including the LILO portion needs to be implemented with HTLS to cater the additional load of Turga PSP of WBSEDCL which is under implementation.

ERLDC proposed that a new line from New Jamshedpur to Jeerat may be implemented as a alternate path for Ranchi - Medinipur – New Jeerat (765 kV) line to cater growing demand in and around Kolkata. Though CTU agreed with the proposal, they stated that matter is not of immediate necessity and would be taken up with matching time.

CE (PTP), WBSEDCL enquired about the commercial implication of the scheme on the respective states. CTU intimated that total estimated cost of the scheme would be around 7037.27 Cr including Rs 415.22Cr as the cost of ATS identified for Adani Power Limited. He also stated that, all the Reactors of the scheme would be considered for the Regional Component. Other items will be considered under AC Component. They have also stated that, as the new ICTs of the proposed New Jamshedpur 764/400Kv S/s are not serving any specific state, it would be considered under AC Component instead of Transformer Component.

However, CE(PTP), WBSEDCL requested to provide the detailed break up of item wise Capital expenditure including mentioning the Component category under which same will be considered and quote the Relevant clause of Regulation in writing so that they can take a prudent decision on its commercial implication. MS, ERPC assured CE (PTP), WBSEDCL that a mail will be sent to CTU seeking detailed cost breakup of the scheme. On receipt of cost break up from CTU, same would be Annexed with the Minutes. Already received the cost break up and enclosed Annexure – V.

No other points were left to be taken up for discussion.

Meeting ended with a vote of thanks to the Chair.

***

Annexure- I

List of particpants attended through VC for 54th CCM on 5th August 2025

Name	Email
ERPC Kolkata	ERPC@KolkataMST.onmicrosoft.com
ABHISHEK MURARI (External)	ABHISHEKMURARI@NTPC.CO.IN
Dharmendra_ NHPC_Faridabad (Unverified)	
Chief Engineer PTP, WBSEDCL (Unverified)	
Mahendra Malik	mahendra.malik@jsw.in
P P Jena	
preetam banerjee (Unverified)	
Tejinder Pal Singh (External)	TPSINGH01@NTPC.CO.IN
RAKESH (External)	RAKESHKUMAR07@NTPC.CO.IN
Pintu Das (Unverified)	
Kavita Parihar, GM, ERLDC (Unverified)	
Manish Ranjan Keshari {मनीष रंजन केशरी} (External)	manish.keshari@powergrid.in
Jipl Scheduling	jitplscheduling@jindalgroup.com
Aman Katoch	
Rajeev Agarwal	
MS ERPC (Unverified)	
SJVN LImited-Delhi (Unverified)	
MEENAKSHI GUPTA (External)	MKHANDELWAL@NTPC.CO.IN
Harshal Joshi	harshal.joshi@jsw.in
Syed Iftekhar Anjum {सैयद इफ्तेखार अंजुम} (External)	iftekhar@powergrid.in
ERLDC IT (External)	erldcit@erldc.onmicrosoft.com
Rajesh Kumar {राजेश कुमार} (External)	rajeshkumar@powergrid.in
Dhirendra Sharma (External)	DHIRENDRASHARMA@NTPC.CO.IN
Sourav Biswas (External)	sbiswas@erldc.onmicrosoft.com
Arshad (External)	ARSHADJILANI@NTPC.CO.IN
Divesh Kamdar {दिवेश कामदार} (External)	diveshkamdar@powergrid.in
Deepak Kumar (Unverified)	
Datta Gadekar (Unverified)	
Anupam Kumar {अनुपम कुमार} (External)	i.anupamk@powergrid.in
Bappa Paul (Unverified)	
Rongnichu HEP (Unverified)	
Abhilash Thakur {अभिलाष ठाकुर} (External)	abhilash.28@powergrid.in
Mithun Gayen {मिथुन गायेन} (External)	mithun.gayen@powergrid.in
Ranajit Pal (External)	ranajitpal@erldc.onmicrosoft.com
Manoj Taunk	Manoj.Taunk@adani.com
Susanta Kumar Padhy	Susanta.Padhy@adani.com
Kevalkumar Kajavadara	Kevalkumar.Kajavadara@adani.com
C&SO (Unverified)	
Rakesh Kr Pradhan (External)	rkpradhan@erldc.onmicrosoft.com
Subrat Swain (External)	subratswain@erldc.onmicrosoft.com
C&SO (Unverified)	
Meeting Guest (Unverified)	
jitpl powersales	jitpl_powersales@Jindalgroup.com

Annexure - II

Agenda item of SJVN for inclusion in 54 th Commercial Sub-Committee meeting of ERPC

A. Consent for purchase of power from Etalin HEP (3097 MW) in Arunachal Pradesh

SJVN, is executing the works of Etalin Hydro Electric Project as a run-of-the-river Project on the Dri and Tangon rivers, tributaries of Dibang river in Arunachal Pradesh.

The project features two concrete dams, two dam toe power houses, two large diameter headrace tunnels and an underground powerhouse complex comprising of surge shaft, pressure shaft and caverns for the two machine halls with 10 units of 307 MW each to generate 3070 MW. Further, Dri Dam Toe power house and Tangon Dam Toe power house to generate 19.60 MW and 7.40 MW respectively totalling to 27 MW.

The Project is scheduled to be completed in 84 months from the zero date of start as 01.01.2027. The annual generation from the project is estimated as 12260.08 MU annually in a 90% dependable year with 95% of plant availability.

Project cost has been estimated at February, 2025 PL with escalation at completion level. The completion cost of the project is estimated at ₹ 30037.36 Crore including Interest During Construction (IDC) of ₹ 6148.01 Crore and Financial Charges (FC) of ₹ 96.83 Crore. The 1st year & levelized Tariff stand at ₹ 5.11/ unit and ₹ 4.94/ unit.

B. Consent for purchase of power from Lower Arun HEP, 669 MW in Nepal.

SJVN, is executing the works of Lower Arun HEP, 669 MW on River Arun in the neighbouring country of Nepal. Lower Arun HEP will operate in Tandem with Arun-3 HEP which is already under construction by SJVN's fully owned subsidiary SAPDC. The project consists of 4 units of 167.25 MW each to generate 669 MW.

The Project is tentatively scheduled to be completed in 2031. The annual generation from the project is estimated as 2901.02 MU annually in a 90% dependable year with 95% of plant availability. As per the condition of Power Development Agreement with Govt. of Nepal, 21% of the net energy shall be given to Government of Nepal (GoN) free of cost.

Project cost has been estimated at September, 2021 PL with escalation at completion level. The completion cost of the project is estimated at ₹ 5792.36 Crore including Interest During Construction (IDC) of ₹ 899.64 Crore and Financial Charges (FC) of ₹ 20.27 Crore. The 1st year & levelized Tariff stand at ₹ 5.37/ unit and ₹ 4.99/ unit.

C. Consent for purchase of power from Upper Karnali HEP, 900 MW (2X30 MW) in Nepal.

Upper Karnali HEP (900 MW) is being developed by Joint venture of SJVN, GMR, IREDA and Nepal Electricity Authority in the neighbouring country of Nepal. The project consists of 8 units of 112.5 MW each to generate 900 MW.

The Project is scheduled to be commissioned by 2031. The annual generation from the project is estimated as 3994 MU annually in a 90% dependable year with 95% of plant availability.

Project cost has been estimated at April, 2024 PL with escalation at completion level. The completion cost of the project is estimated at ₹ 9145.29 Crore including Interest During Construction (IDC) and Financial Charges (FC) of ₹ 1535.07 Crore. The levelized Tariff stand at ₹ 5.45/ unit.

- SJVN is in a position to offer power from above mentioned projects after their commissioning at a tariff as determined by CERC under Section 62 of Electricity Act. It is requested to please convey the consent of constituent members for purchase of power indicating the quantum of power required from these Hydro projects to HoD (C&SO), SJVN at **sjvn.cso@sjvn.nic.in** and **gmcsosjvn@gmail.com** so that Power Purchase Agreement (PPA) can be signed subsequently. Further, a detailed presentation can be arranged in case any constituent member wish to obtain more information regarding these hydro projects.

Project	Description	Remarks
Etalin HEP (3097 MW)	Location- Arunachal Pradesh Design Energy -12260 MU Anticipated Commissioning- 2033 Peaking Capability- Yes Levelized Tariff- Rs. 4.94/kWh	Actual tariff will be as determined by CERC under Section-62 of Electricity Act on CoD of the project
Lower Arun HEP (669 MW)	Location- Nepal Design Energy -2901 MU Anticipated Commissioning- 2031 Peaking Capability- Yes Levelized Tariff- Rs. 4.99/kWh	
Upper Karnali HEP (900 MW)	Location- Nepal Design Energy -3994 MU Anticipated Commissioning- 2031 Peaking Capability- Yes Levelized Tariff- Rs. 5.45/kWh	

ERPC members are requested to deliberate and offer their consent for the purchase of power from above mentioned hydro projects of SJVN Limited.

Annexure - III

JINDAL INDIA POWER LIMITED

(Formerly known as Jindal India Thermal Power Limited)
Regd. off: Habitat India, C-3, Qutab Institutional Area,
Katwaria Sarai, New Delhi- 110016, Phone: 011-40841950
Website: www.jitpl.com,

Ref: JIPL/Aug'25/04/064 **Date: 04.08.25**

To

Member Secretary,

Eastern Regional Power Committee,

14, Golf Course Road, Tollygunj,

Kolkata-700033

Sub: Submission of Agenda for 54th Commercial sub-Committee (CCM) meeting of ERPC.

Dear Sir,

Jindal India Power Limited (JIPL) operates a 2x600 MW thermal power plant located in Derang village, Angul district, Odisha.

With reference to the notice regarding the 54th CCM meeting of the Eastern Regional Power Committee (ERPC).We would like to submit the agenda for 54th CCM meeting.

Kindly find below agenda points from JIPL w.r.t LPS rules:

1. As mentioned in Section-F point (b) Distribution license shall intimate its schedule for requisition power for each day from generating company, we request that it has to be made mandatory for Distribution license to communicate through mail for their requisition power for each day from generating company.

2. With reference to section F point (d) as power in day ahead market cannot be curtailed or revised how treatment of this power offered by generating station w.r.t URS will be done when generator goes under forced outage.

3. Point (e) of section f has mandated all un requisitioned surplus power arising due to surrender of power by beneficiary needs even after closure of RTM needs to offered in the market, under the circumstance when power is being surrender beyond the ramp up and down capabilities of generator has to be offered on RTM and generating plant will face operational difficulties in maintain the load when such power is cleared in one block and not cleared in other block due to price variation.

4. In the Real-Time for surrendering quantum from beneficiaries, we frequently encounter technical issues. Often, NOAR fails to fetch the quantum in real time and displays an error indicating that the quantum has exceeded the NOC limit.

JINDAL INDIA POWER LIMITED

(Formerly known as Jindal India Thermal Power Limited)
Regd. off: Habitat India, C-3, Qutab Institutional Area,
Katwaria Sarai, New Delhi- 110016, Phone: 011-40841950
Website: www.jitpl.com,

Additionally, due to technical glitches on the IEX platform, we are sometimes unable to place bids in the RTM market.

We would be grateful if the necessary arrangements could be made accordingly.

Thank you for your kind consideration

Your Faithfully

Jindal India Power Limited
(Formerly known as Jindal India Thermal Power Ltd)
Authorized Signatory

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)

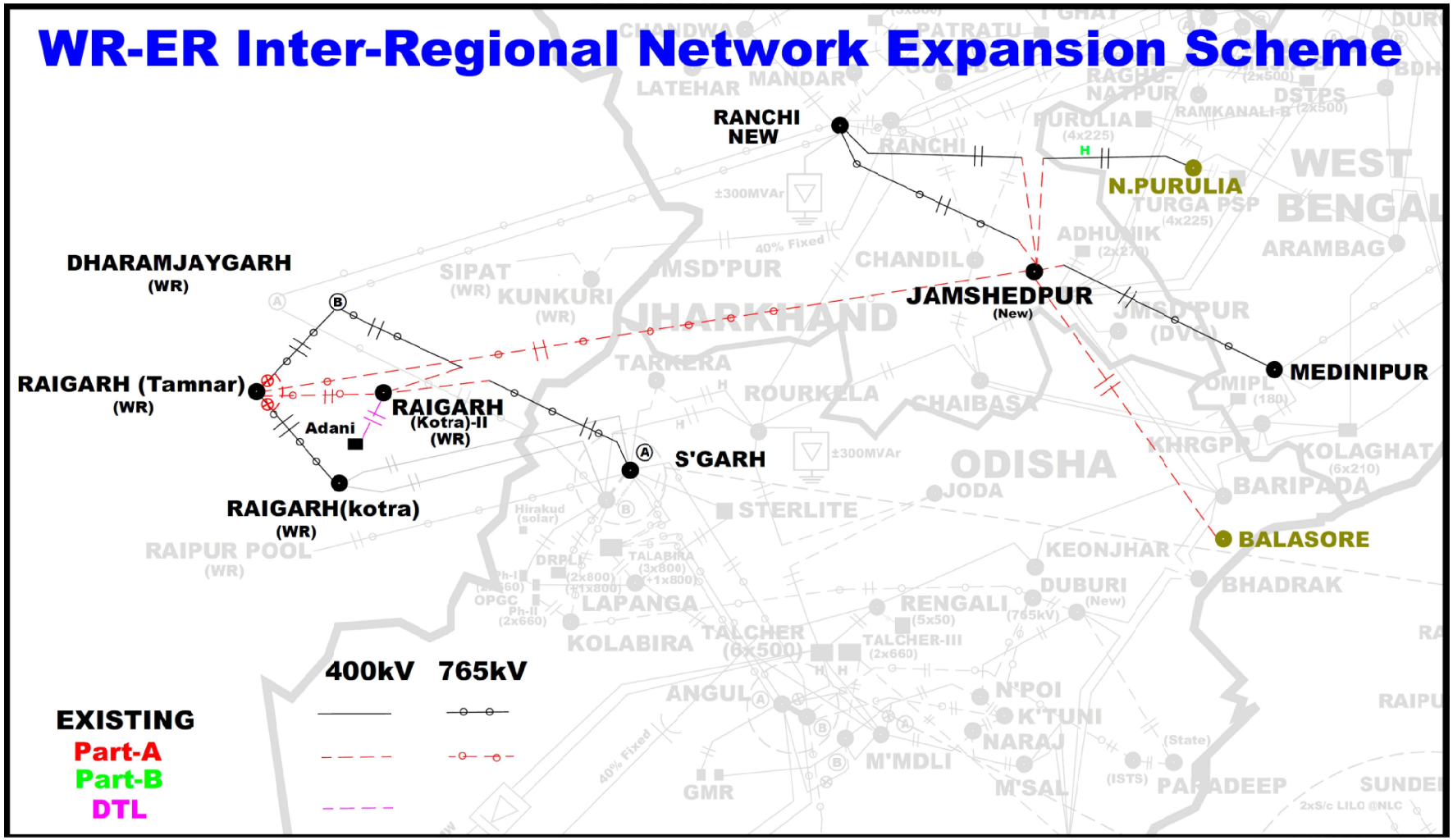
Sl. No.	Items	Details
		x. Extension at Jamshedpur (New) 765/400kV (ISTS) substation for implementation of 2 nos. 400kV line bays [for termination of Jamshedpur – Balasore 400kV D/c (Quad) line] xi. Jamshedpur (New) – Balasore 400kV D/c (Quad) line *@4 Nos. 765kV line bays vacated at Tamnar S/s after 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*

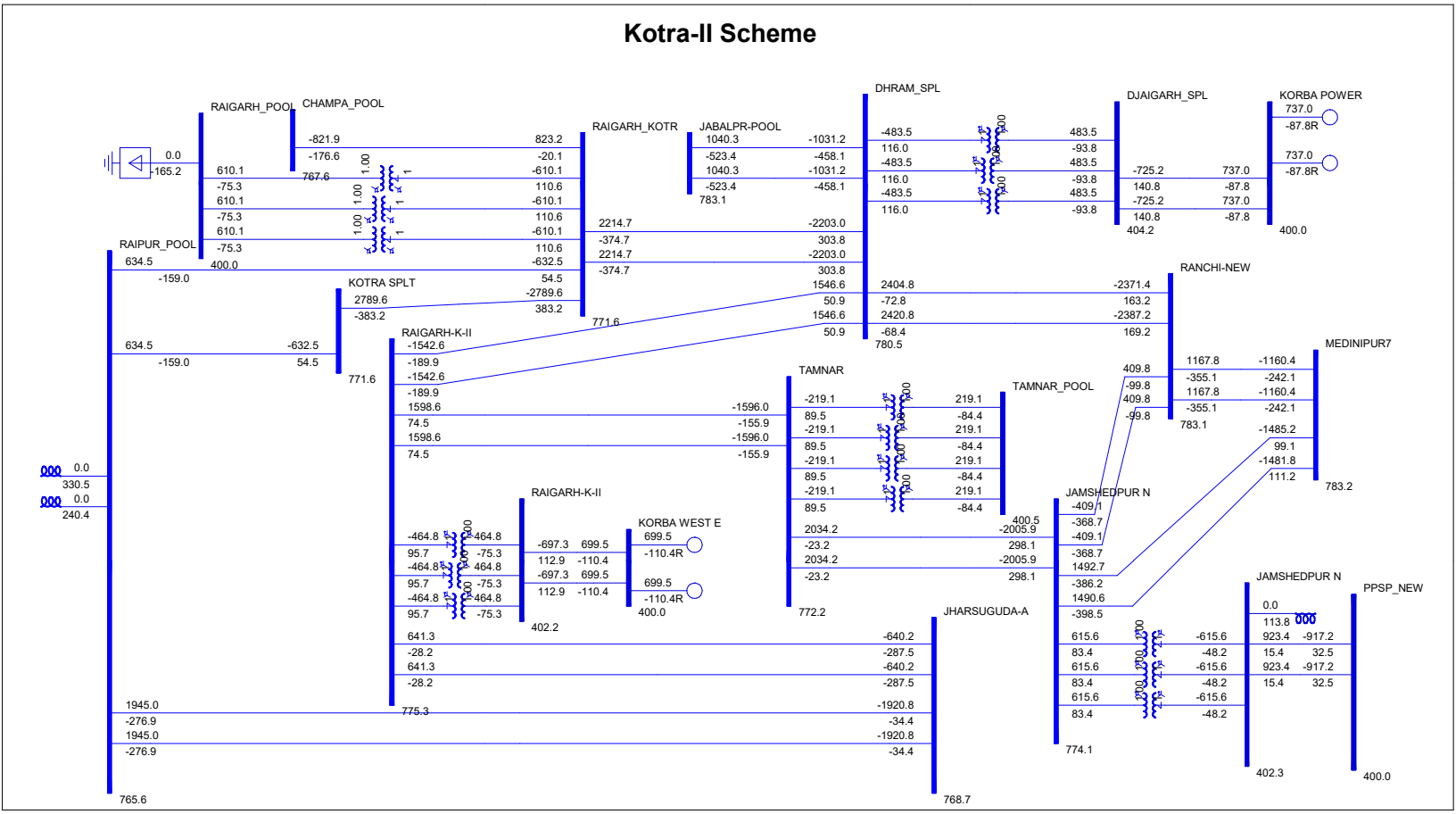
awarded. However, the expected commissioning schedule is 31-03-2029, as per OPTCL.

Completion Schedule:

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

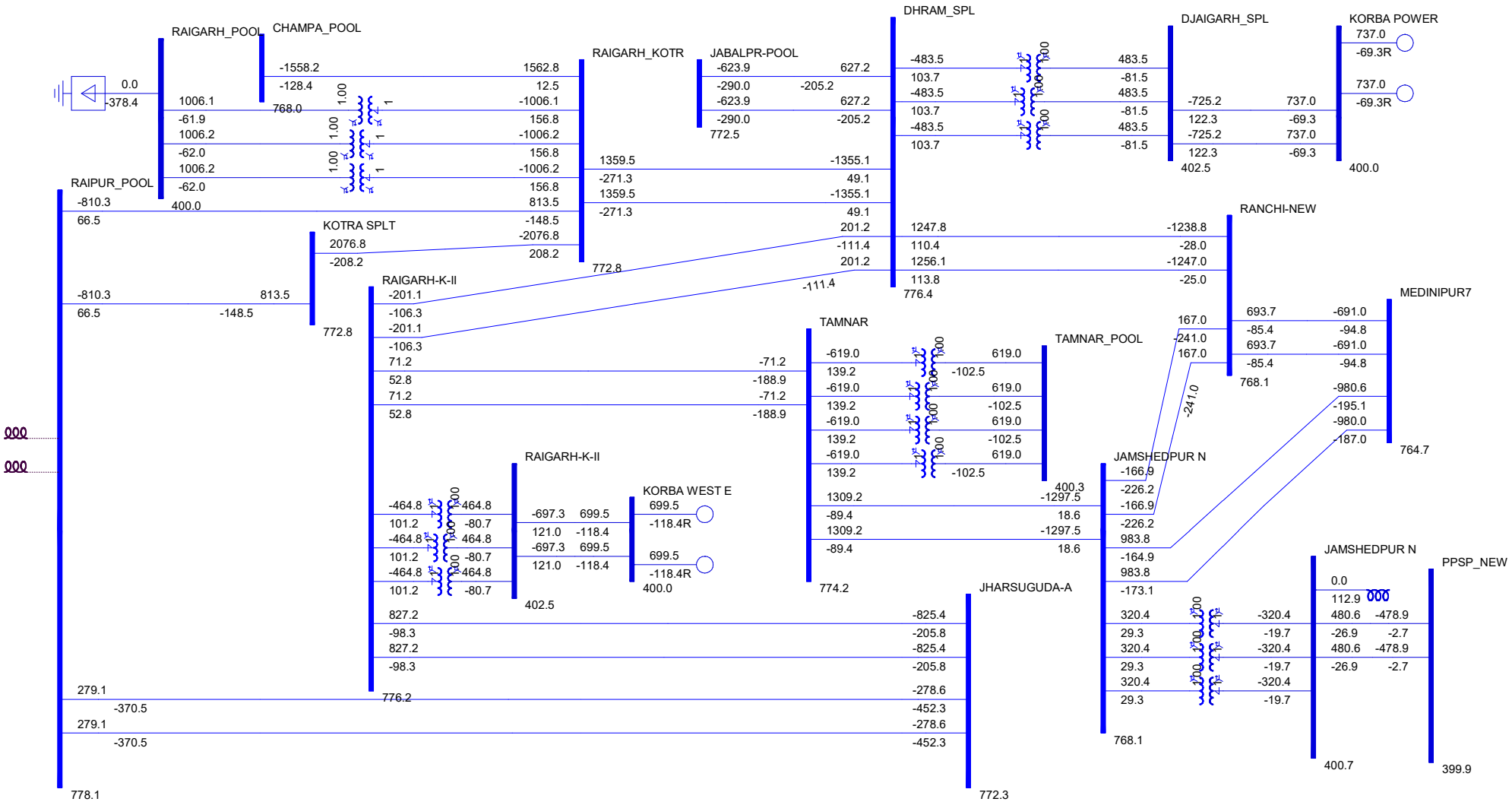
Exhibit-2

Sc-4 Base Case



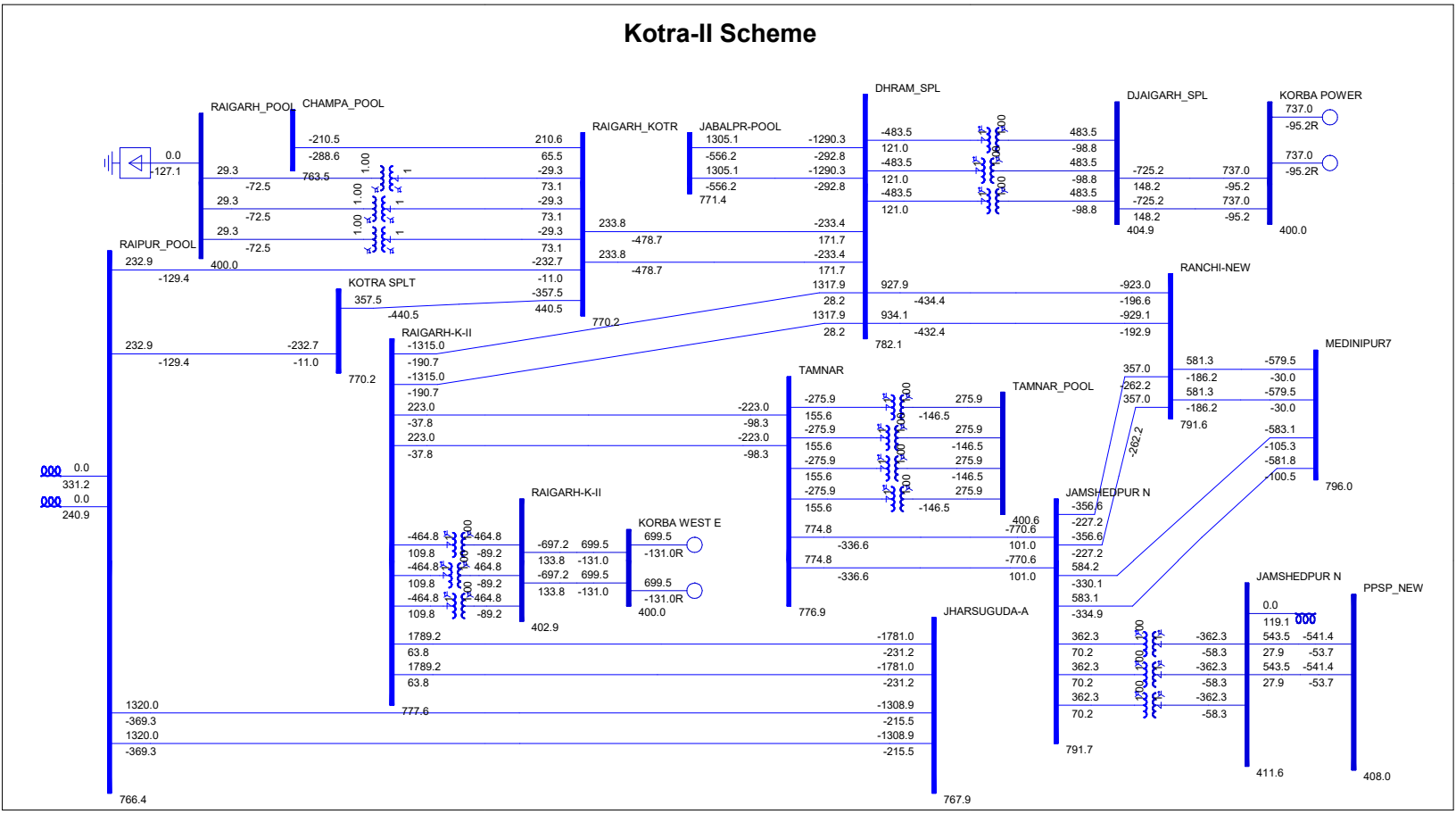
Sc-5 Base Case

Kotra-II Scheme



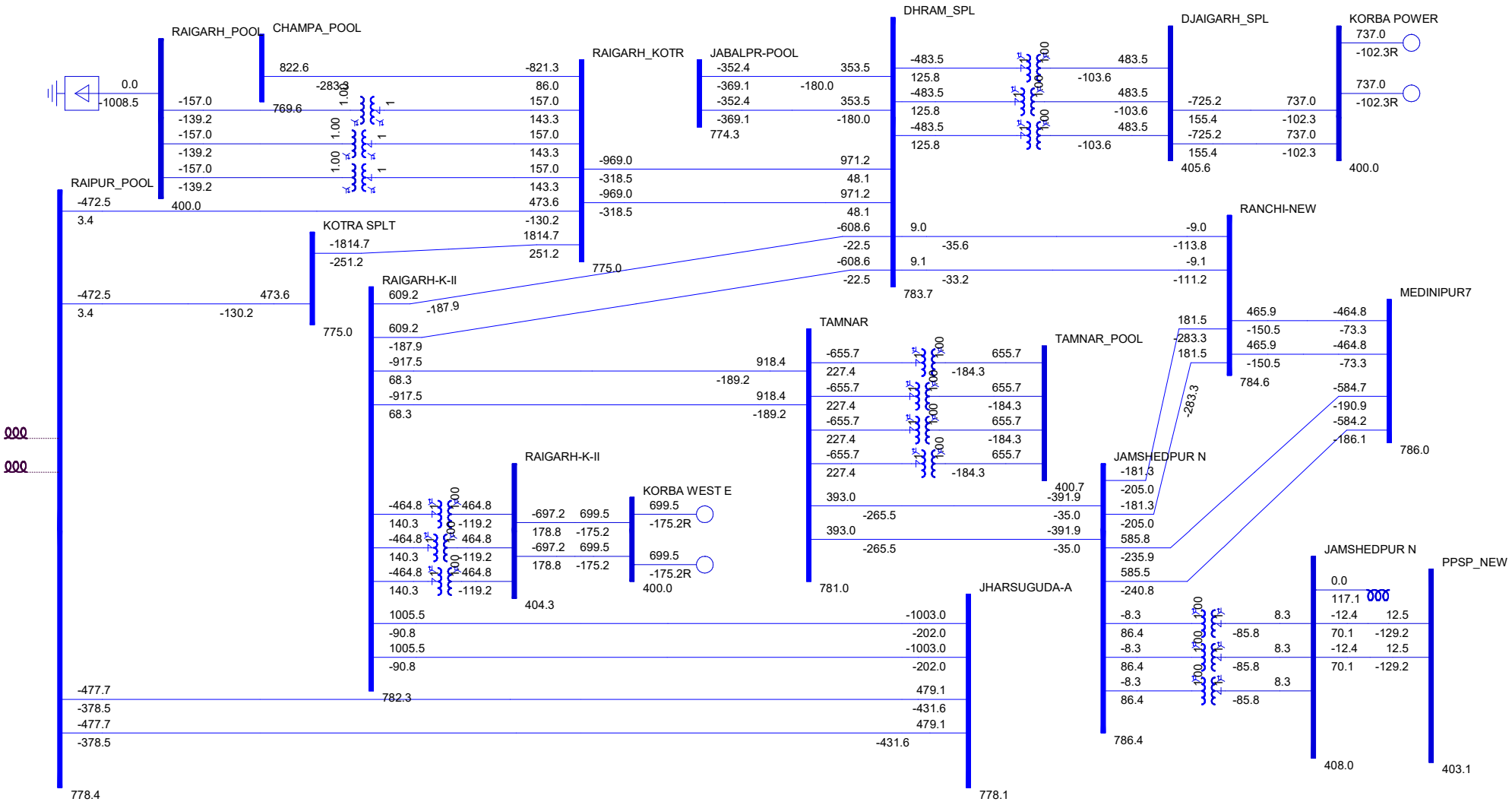
Sc-7Base Case

Kotra-II Scheme



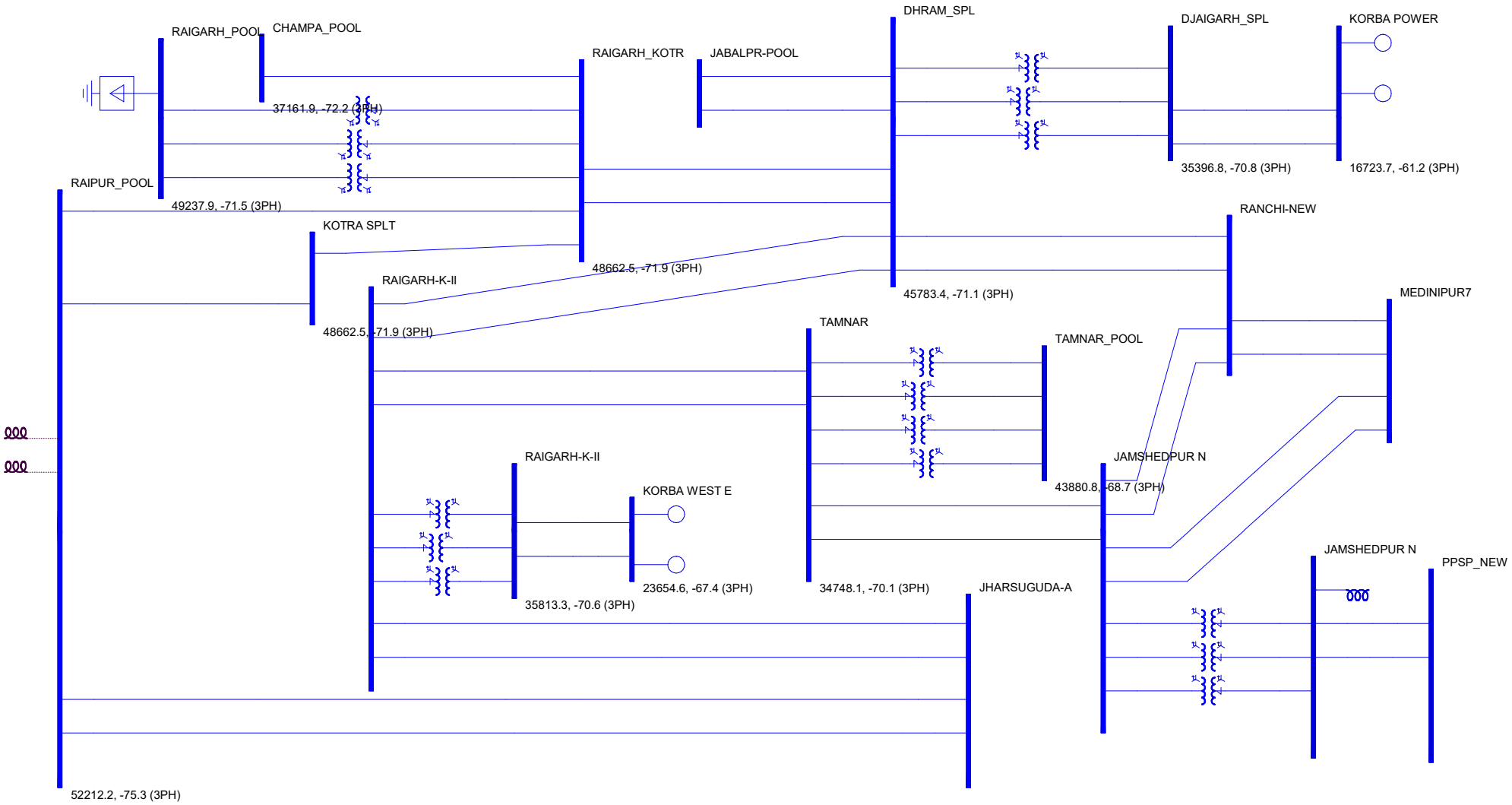
Sc-8 Base Case

Kotra-II Scheme

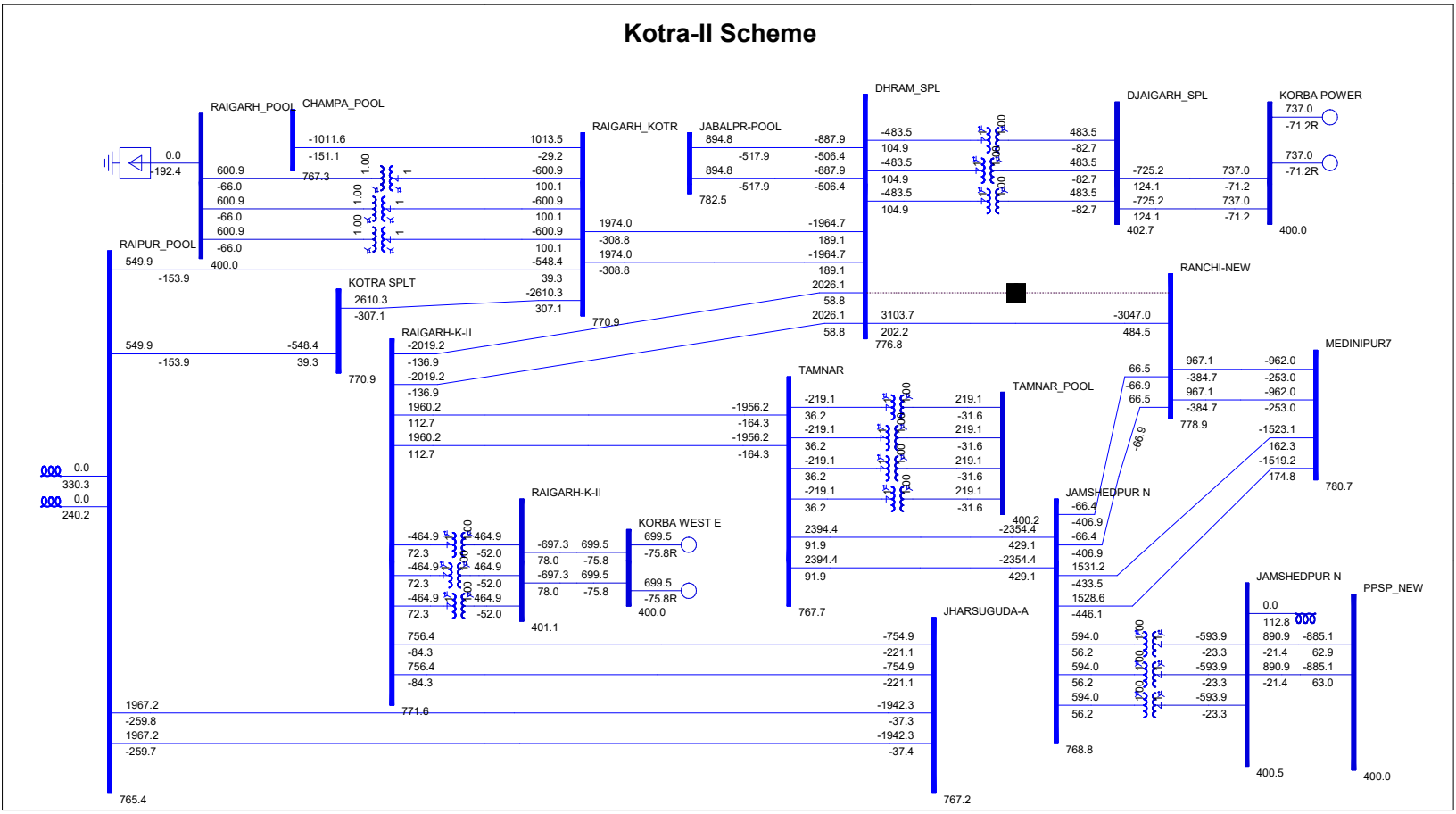


Sc-8 Short Ckt Level

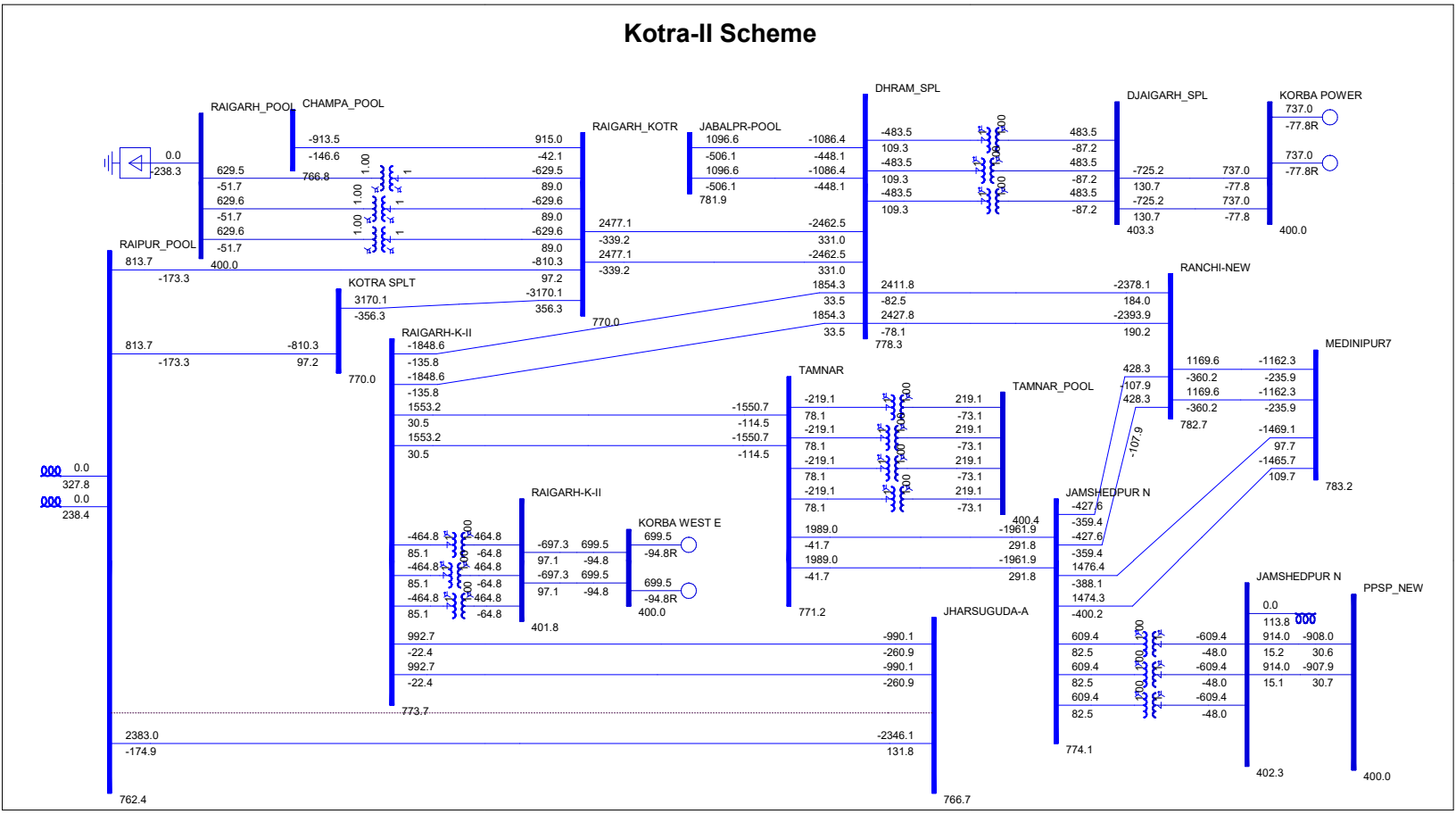
Kotra-II Scheme



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



Annexure - V

Component wise bifurcation of
WR-ER Inter-Regional Network Expansion Scheme (Part-A) Scheme
as per CERC Sharing Regulations

Sl. No.	Scope of works	Capacity (MVA) / Line length (km)/ Nos.	Estimated cost (₹ Cr.)	Component as per CERC Sharing Regulations
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	788.05	Bus reactors under Regional Component (RC) of Eastern Region as per Regulation 6 (1) (b). All other elements under AC System Component (ACC) as per Regulation 8 (1).

Sl. No.	Scope of works	Capacity (MVA) / Line length (km)/ Nos.	Estimated cost (₹ Cr.)	Component as per CERC Sharing Regulations
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)		-	Bus reactors under Regional Component (RC) of Western Region as per Regulation 6 (1) (b). All other elements under AC System Component (ACC) as per Regulation 8 (1).
2A	**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) • 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	**<u>Common Transmission System Augmentation:</u>** - 765kV, 2x330MVAr bus reactor (7x110MVAr single phase units) - 420kV, 125MVAr bus reactor: 2 nos. - 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	518.85	

Sl. No.	Scope of works	Capacity (MVA) / Line length (km)/ Nos.	Estimated cost (₹ Cr.)	Component as per CERC Sharing Regulations
	• 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.			
2B		**ATS incl. terminal bays identified for Adani Power Limited (appl. No.2200001709):**	415.44	

Sl. No.	Scope of works	Capacity (MVA) / Line length (km)/ Nos.	Estimated cost (₹ Cr.)	Component as per CERC Sharing Regulations
		- 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]		
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 Raigarh (Kotra) – Dharamjaygarh (Sec-B) 765kV D/c line [Final length of Raigarh (Kotra) – Dharamjaygarh (Sec-B) 765kV D/c line after bypassing~115km]	10km (Route length)	65.47	All elements under AC System Component (ACC) as per Regulation 8 (1).
4.	LILO of D'jaygarh (Sec-B) – Jharsuguda (Sec-A) 765kV D/c line at Raigarh (Kotra)-II S/s	LILO length ~40 km	523.87	All elements under AC System Component (ACC) as per Regulation 8 (1).
5.	Raigarh (Tamnar)[@]-Raigarh(Kotra)-II S/s 765kV D/c line	50km	327.39	All elements under AC System Component (ACC) as per Regulation 8 (1).
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	132.50	All elements under AC System Component (ACC) as per Regulation 8 (1).
7.	Raigarh(Tamnar)[@] – Jamshedpur 765kV D/c line	315km	2111.45	All elements under AC System Component (ACC) as per Regulation 8 (1).

Sl. No.	Scope of works	Capacity (MVA) / Line length (km)/ Nos.	Estimated cost (₹ Cr.)	Component as per CERC Sharing Regulations
8.	LILO of Ranchi (New) – Medinipur 765kV D/c line at Jamshedpur (New)	51km and 49km	709.05	All elements under AC System Component (ACC) as per Regulation 8 (1).
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	532.59	All elements under AC System Component (ACC) as per Regulation 8 (1).
10.	Extension at Jamshedpur (New) 765/400kV (ISTS) substation	400kV line bays: 2 nos. [for Jamshedpur – Balasore 400kV D/c (Quad) line]	29.23	All elements under AC System Component (ACC) as per Regulation 8 (1).
11.	Jamshedpur (New) – Balasore 400kV D/c (Quad) line	174km	883.37	All elements under AC System Component (ACC) as per Regulation 8 (1).
		Total	**7037.27**	

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.*