

North Eastern Regional Power Committee Agenda For

51st Commercial Sub-Committee Meeting

CONFIRMATION OF MINUTES

1. <u>CONFIRMATION OF MINUTES OF THE 50th COMMERCIAL SUB-</u>COMMITTEE MEETING OF NERPC.

Minutes of the 50th CC Meeting held on 12th Jan 2024 at State Convention Centre, Shillong was circulated vide no. No.: NERPC/COM/CC_Min/2018/6921-6967 dated 5th Feb. 2024.

No observations have been received from constituents. The minutes of the 50^{th} CCM may be confirmed.

ITEMS FOR DISCUSSION

2 AGENDA ITEMS FROM NERPC

2.1 Recent Key Regulations/orders:

The following CERC regulations/order(s) have been notified:

- 1. Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2024 for the tariff period from 1.4.2024 to 31.3.2029.
- 2. Draft procedure for Implementation of the Electricity (Late Payment Surcharge and related matters) Rules, 2022.

This is for information of the members.

2.2 Board Fund Contribution status for FY 2023-24- reg.:

A.1 The status of payment for FY 2023-24 (as on 31.03.2024) is as given below:

F.Y 2023-24			
Constituents Status of Payment Constituents Status of Payment			
NTPC	Payment Received	Ar. Pradesh	Payment Received

NHPC	DUE	Assam / APDCL	Payment Received
PTC	Payment Received	Manipur/MSPDCL	Payment Received
NVVN	DUE	Meghalaya/MeECL	Payment Received
OTPC	Payment Received	Mizoram	DUE
NEEPCO	Payment Received	Nagaland	Payment Received
PGCIL	Payment Received	Tripura/TSECL	Payment Received
KMTL	Payment Received		

Concerned constituents are requested to kindly deposit their respective amount towards Board Fund of NERPC for FY 2023-24 at the earliest.

A.2 Constituents are requested to kindly deposit their respective amount towards Board Fund of NERPC for FY 2024-25.

2.3 NERPC Secretariat Establishment Fund Contribution status for FY 2023-24- reg.:

A.1 The status of payment for FY 2023-24 (as on 31.03.2024) is as given below:

F.Y 2023-24				
Constituents	Status of Payment	Constituents	Status of Payment	
NTPC	Payment Received	Ar. Pradesh	Payment Received	
NHPC	Payment Received	AEGCL	Payment Received	
PTC	Payment Received	APDCL	Payment Received	
NVVN	Payment Received	APGCL	Payment Received	
OTPC	Payment Received	MePTCL	Payment Received	
NEEPCO	Payment Received	MePDCL	Payment Received	
PGCIL	Payment Received	MePGCL	Payment Received	
KMTL	Payment Received	MSPCL	DUE	
TPTL	DUE	MSPDCL	Payment Received	
TPGCL	DUE	Mizoram	Payment Received	
TSECL	DUE	Nagaland	Payment Received	

Concerned constituents are requested to kindly deposit their respective amount towards "NERPC Secretariat Establishment Fund" for FY 2023-24 at the earliest.

A.2 Annual Contribution Towards "NERPC Secretariat Establishment Fund" For FY 2024-25:

In the 25th NERPC Meeting held on 9th December 2024, forum had approved the proposed Budget Estimate (BE) of Rs. 203.20 lakhs for FY 24-25, which is to be shared by State Utilities/Departments and CPSUs/Private members in the ratio of 1:3, respectively.

The contribution amount for each member/utility for FY 2024-25 would be as provided below.

Utilities	Annual contribution in INR
State Utilities / Departments	Rs. 5.35 Lakhs each
Central Utilities & Private Members	Rs. 16.05 lakhs each

Constituents are requested to kindly deposit their respective amount towards NERPC Secretariat Establishment Fund for FY 2024-25 at the earliest. The account details have been shared vide our letter dated 28.08.2023.

A.3 Nomination for co-signatory for "NERPC Establishment Fund"/ "NERPC Board Fund":

Presently two officers (Assistant Secretary & DDO) from NERPC Secretariat are nominated by Member Secretary, NERPC as signatories of NERPC Establishment Fund/ NERPC Board Fund.

It is proposed to modify the signatory requirements for withdrawals from 'NERPC Establishment Fund'/'NERPC Board Fund'. There shall be 3 signatories for the fund, 1 officer nominated among the NER Constituents and 2 officers from NERPC Secretariat as nominated by Member Secretary, NERPC. To execute transactions above 1 lakh INR shall require signature of any two signatories.

In this regard, CC Forum is requested to nominate an officer among the NER Constituents for the same.

2.4 Roaster of CCM. -reg.

As members of NERPC are aware that Commercial Co-ordination Meetings are being hosted by constituents on rotation basis. In this regard 52^{nd} , 53^{rd} , 54^{th} & 55^{th} CC meeting has been proposed as:

52nd CCM- By NEEPCO (In the month of July'24)

53rd CCM-By Arunachal Pradesh (In the month of Oct'24)

54th CCM- By Tripura (in the month of Jan'25)

55th CCM- By NTPC (in the month of Apr'25)

This is for information of the members.

2.5 NERPC Conduct of Business Rules-2024

Present CBR of NERPC was approved in 2006 and needs to be updated in view of the changes such as Ministry of Power Resolution F.No:23/21/2021-R&R dated 03.12.2021 reg. re-constitution of NERPC, Self-financing of NERPC, SOP (approved by Chairperson, CEA) for streamlining RPC Budget etc. As per Clause-9

of the aforesaid Resolution, the NERPC hereby makes the draft Conduct of Business rules which may be called "The North Eastern Regional Power Committee (Conduct of Business) Rules, 2024", which is hereby placed for their comments / perusal. (Ref. Annexure 2.5)

2.6 Generation loss of Pare HPS due to congestion. -reg.

During continuous shutdown of 132 kV Pare-Nirjuli and 132 kV Pare-RHEP-1 line for reconductoring works undertaken by M/s STERLITE Power, there was substantial loss of generation and revenue at Pare end, due to the frequent tripping of 132kV Pare-Itanagar Line1 & 2 (DOP Lines) which tripped on 04(Four) occasions i.e. on 25/07/2023, 26/07/2023, 27/07/2023 and 30/07/2023. Due to continuous shutdown of 132 kV Pare-Nirjuli and 132 kV Pare-RHEP-1 line during this period, there was power evacuation constraint during tripping of the DOP lines and as such backing down of our generation was resorted to as per the instruction of NERLDC. During the line tripping period, both of our generating units either tripped or our generation was completely backed down by NERLDC due to power evacuation problem and safety of the workers engaged in line restoration works. Due to this there was both generation and revenue loss which is indicated in the table below:

Date	DC (MU)	Schedule	Loss of Gen (A-B) =	Revenue Loss
	A	(MU)	C (MU)	D=
				(C*10 ⁶ *INR5.00
25.07.2023	2.0258	1.2203	0.8082	40,41,000
26.07.2023	2.2203	1.9607	0.8702	43,51,250
27.07.2023	2.6740	2.2360	0.4380	21,90,000
30.07.2023	2.8280	2.5470	0.2809	14,04,550
Total loss of revenue			INR 1,19,86,800	

In the 206th OCCM NERPC highlighted that as per the Central Electricity Regulatory Commission (Measures to relieve congestion in real time operation) Regulations, 2009 –

I) "Congestion charge" means the supplementary charge kicked in on one or more regional entities in one or more Regions for transmission of power from one Region to another or from one State to another within a Region when **the deviations from the schedule** cause the net drawal of power in

- the interregional or intra-regional transmission links to go beyond the Total Transfer Capability limit)
- II) To relieve congestion in the **real time**, a congestion charge shall be applied as a commercial measure. The congestion charge will be **payable** by a regional entity or entities causing congestion in the inter-regional link or intra-regional link and **receivable** by a regional entity or entities relieving congestion. It was opined by NERPC that congestion charge kicks in only when there is deviation from the Schedule, but in the present case of Pare HEPS, NEEPCO is claiming compensation on deviation between DC and Schedule itself, therefore the claim for compensation under the regulation by NEEPCO may not be sustainable. NERLDC also stated that NEEPCO may not be eligible for the Congestion Charges. After detail deliberation, MS, NERPC stated that the applicable regulation will be analyzed further and sustainability of the claim of congestion by NEEPCO under the regulation will be further discussed in upcoming CCM meeting.

Sub-committee may please deliberate.

2.7 AMC of PDMS and PSCT -reg.

As per Protection Code of IEGC, RPCs are required to maintain a centralized database containing relay settings for grid elements. Protection Database Management System (PDMS) & Protection Setting Calculation Tool (PSCT), for NER has been made operational in 2018 vide LOA NERPC/SE(O)/PDMS/2018/4135. It was funded through PSDF. Comprehensive AMC for Protection Database Management System (PDMS) and Protection Setting Calculation Tool (PSCT), currently provided by M/s PRDC, is expiring in March 2025. The PDMS and PSCT system comprise complex set of software, hardware, servers, firewall etc. The AMC of the system is essential for smooth functioning and effective utilization of the system for improvement of protection system of NER region and thus ensuring secure and reliable operation of the grid. Therefore, it is critical that AMC of the system be renewed for next few years.

In the 65th PCC meeting forum noted the requirement of renewal of AMC of PDMS and PSCT system and requested NERPC to get price offer from the vendor for reference of NERPC constituents (**Attached as Annex. 2.7**). Also, the forum referred the matter to upcoming commercial coordination meeting of NERPC for further discussion.

Sub-committee may please deliberate.

2.8 Energy transaction of Assam with Arunachal Pradesh and Nagaland and its commercial settlement with respect to Office Memorandum of Ministry of Power, Govt. of India dated 15th June, 2023

Assam has long relationship with the states of Arunachal Pradesh and Nagaland with respect to Power transaction. Presently, Assam supplies power to Arunachal Pradesh by 12 (twelve) nos. of Interstate points while Assam takes power from Arunachal Pradesh by 2 (two) nos. of Inter State points. Assam, at present, supplies power to Nagaland through 1 (one) no. of point.

The net power drawal between APDCL and DoP, AP is presently adjusted in Deviation Settlement Mechanism (DSM) in post-facto basis. Also, the state having net drawal pays the transmission charge for the quantum monthly to the net supplying state.

For the transaction between Assam and Nagaland also, the net drawal quantum is adjusted in the DSM Mechanism, but no transmission charge is being paid as Nagaland assured to have its own transmission system soon which is not done yet.

The NERPC Forum in earlier meetings had the view that this existing mechanism of adjustment of energy in DSM is incorrect as it is done only after the end of a month while the DSM is calculated in Real Time Basis. This mechanism has affected all the states Assam, Arunachal Pradesh and Nagaland in managing their deviation from the schedule as the adjusted quantum is not known beforehand. But the system was continued for the sake of power supply to the people of border areas and also for not having clear guideline for adjusting the same.

In this respect, it may be noted that Ministry of Power, Govt. of India has now come up with a Protocol for providing Electricity to Border areas of one State from Grid of Neighboring State on 15.06.2023.

For the settlement of the energy transacted between two states, the Point No. (vii) to Point No. (xi) of the Office Memorandum may be seen where the tariff of power supplied from one state to the other and the tariff of consumers and the payment mechanism are clearly explained.

As such, to have a proper settlement of energy transacted between the States and accordingly its payment mechanism by following the Office Memorandum of the Ministry of Power, Govt of India and to avoid any loss being faced by the states with respect to DSM, the forum is requested to discuss the matter and have a permanent solution.

Deliberation of the 50th CCM:

DoP Arunachal Pradesh informed the forum that out of the total 12 power drawl points earlier, now they are drawing power from Assam through 7 drawl points only. DoP Arunachal Pradesh further informed that Assam is also drawing power from 2 drawl points from Arunachal Pradesh. DoP Arunachal Pradesh requested forum to maintain Status quo until Comprehensive Scheme in Arunachal Pradesh is completed, which will improve the connectivity in remote/border areas.

Assam informed the forum that Assam and West Bengal are settling bill as per aforementioned MoP Office Memorandum/Protocol dated 15.06.2023 (for providing Electricity to Border areas of one State from Grid of Neighboring State). Assam requested forum to specify timeline to implement the said protocol in respect of Assam and Arunachal Pradesh energy bill settlement also.

After due deliberation, forum suggested that Arunachal Pradesh may be given time to discontinue drawal from Assam till Comprehensive Scheme works in the concerned areas are completed. In the areas where distribution network is still not available, Arunachal Pradesh may draw/continue to draw in accordance with MoP protocol. The items would be monitored in the CC forum regularly.

Sub-Committee may deliberate.

2.9 Furnishing the data by the generating stations regarding their primary response for RTDA Accounting purpose-reg.

In line with the Central Electricity Regulatory Commission (Sharing of Inter-State Transmission Charges and Losses) (First Amendment) Regulations, 2023 w.e.f. 1st October 2023, Clause 10(1) of this regulation says that Transmission deviation charges shall not be levied for the quantum of over-injection for providing primary response by a generating station, subject to verification of such over-injection by concerned RPC. Also, same regulation directed RPC to issue necessary guidelines for furnishing the data by the generating stations regarding their primary response. Therefore, guidelines for furnishing the primary response data by the generating stations is prepared (**Attached as Annex. 2.9**) and put for forum's approval.

Sub-Committee may deliberate

3. AGENDA ITEMS FROM Assam

3.1 Data for Bill to be raised to Arunachal Pradesh for transmission charge for power supply to Arunachal Pradesh through 33KV/11KV lines of Assam for FY 2022-23:

As per the minutes of 36th and 37th CCC meeting of NERPC, APDCL and DoP, GoAP are to give the cumulative reading of the power transacted between Assam and Arunachal Pradesh through all 33KV/11KV lines of both the states in a financial year to NERPC and based on that NERPC certifies the transmission charges to be paid by Arunachal Pradesh to APDCL.

For FY 2023-24, APDCL has submitted the readings to both NERPC and DoP, GoAP for vetting. DoP, GoAP has also submitted the reading of the Bhalukpong-ITBP line. DoP, GoAP has also raised an issue claiming discrepancy in the reading of Namsang Tea Estate feeder which is shown as Export from Assam instead of Import. It may be noted that the reading of Namsang Tea Estate feeder was submitted by APDCL based on the Joint Meter Reading sheet signed by the representatives of both APDCL and DoP, GoAP.

As such, vetting for correction of the same is required from DoP, GoAP. Whereas, since this data is already submitted to NERLDC on monthly basis for calculation of Deviation Settlement Mechanism also, so the impact of changing the previous data is to be discussed by the forum.

Sub-committee may deliberate.

4. AGENDA ITEMS FROM TSECL

4.1 Outstanding Dues of Mizoram

As on date, an amount of around Rs 8.84 crores is outstanding with Mizoram. It is to mention that TSECL is to make timely payment to Gail/ONGC regularly to avoid surcharge etc as well as to avoid regulation of Gas supply. Therefore, Mizoram is requested to ensure monthly payment to avail rebate as well as to avoid surcharge, regulation of power supply etc.

Sub-committee may please deliberate.

4.2 Outstanding Dues of Manipur

Outstanding with Manipur is only Rs7.96 lacks as on date excluding surcharge. Manipur is discontinue the power from Baramura. Hence It is requested kindly to make payment immediately so that all the codal formalities be maintained to avoid any audit observation. The matter was also discussed in the last TCC/CCM meeting.

4.3 Calibration of meter data for Bangladesh drawal:

Collecting meter data for Bangladesh drawal from Suryamani Nagar S/S through vin plus software since March, 2016. On that basis bill raised by TSECL. The quantum of energy is also reflecting in the REA. Hence Calibration may be required in presence of Bangladesh officials. PGCIL is requested to take the necessary steps for calibration.

Sub-committee may please deliberate.

4.4 Less gas supply issue during summer in NER:

It is experienced that NE region will face huge power shortage during summer mainly in the month of April, May and June. During that time Power may not be available in the DAM as well as RTM market also. At Present OTPC, Monarchak, R.C.Nagar generates less due to Gas shortage. Moreover, the state Genearation Baramura, Rookhia is also generates less due to shortage of Gas supply by ONGC/Gail. Forum is requested kindly to take up the matter with ONGC/Gail for less gas supply.

Sub-committee may please deliberate.

5. AGENDA ITEMS FROM NEEPCO

5.1 Life Extension of 291 MW Assam Gas Based Power Station, Dibrugarh District, Assam – proposal for beneficiary consent:

The 291 MW Assam Gas Based Power Station (AGBPS) commenced commercial operation in April 1999. Since commissioning, the station has been consistently supplying reliable power at very low tariff to the beneficiaries. The plant has been performing satisfactorily till date as a base load station and serving all the beneficiaries of the North Eastern Region. However, it is now felt necessary to undertake measures for Life Extension through additional capitalization, to ensure seamless supply of power to the N.E. grid

The Hon'ble Commission notified the Central Electricity Regulatory Commission (Terms and Conditions of Determination of Tariff) Regulations, 2019 (Tariff Regulations, 2019) applicable for the control period 01.04.2019 to 31.03.2024. The relevant extract from the Tariff Regulations, 2019 reads as under:

3. Definitions –

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- (24) 'Extended Life' means the life of a generating station or unit thereof or transmission system or element thereof beyond the period of useful life, as may be determined by the Commission on case-to-case basis;
- (73) 'Useful Life' in relation to a unit of a generating station, integrated mines, transmission system and communication system from the date of commercial operation shall mean the following:
- (b) Gas/Liquid fuel based thermal generating station: 25 years

Provided that the extension of life of the projects beyond the completion of their useful life shall be decided by the Commission on case-to-case basis;

27.(3) In case of gas/ liquid fuel based open/ combined cycle thermal generating station after 25 years of operation from date of commercial operation, any additional capital expenditure which has become necessary for renovation of gas turbines/steam turbine or additional capital expenditure necessary due to obsolescence or non-availability of spares for efficient operation of the stations shall be allowed

On 27.01.2022, the Hon'ble Commission passed the Order in Petition No. 280/GT/2020 approving the tariff of the Project for the tariff period – 2019 to 2024, and granted a liberty to NEEPCO to approach the Commission with an appropriate application for Life extension of units of the Project in terms of the Regulation 27 of the Tariff Regulations, 2019. The relevant extract from the Order dated 27.01.2022 reads as under:

....We, therefore, grant liberty to the Petitioner to approach the Commission with appropriate application for Renovation & Modernisation/ Life extension of units/generating station in terms of Regulation 27 of the 2019 Tariff Regulations.

Accordingly, a Detailed Project Report (DPR) has been prepared keeping in mind the Life Extension (LE) of the plant, besides the normal O&M activities, necessary for extension of its useful life which has expired on 31st March 2024. The proposed Life Extension is for 15 years. Salient aspects of the proposal are as below:

1. Estimated expenditure of Additional capitalization for LE is Rs 455.33 crores (at Dec'23 Price Level, after decapitalization), which translates to Rs 1.56 crores/MW. Out of the Estimated expenditure of Rs. 455.33 crores an amount of Rs. 158.59 Crore has already been spent in the tariff control

period 2019-24 and another Rs. 296.73 crores will be spent in phased manner during the next 5 years starting from 2024-25.

- 2. The First-Year (i.e 2024-25) Capacity Charge on completion of the Life Extension works, based on the estimated cost as mentioned above has been worked out at Rs. 1.80 per unit with a levellised Capacity Charge over the expected 15 years extended useful life of the plant of Rs. 2.13 per unit.
- 3. The Petition for Life Extension has been filed on 28.03.2024, before the Hon'ble Commission for extension of the life of the power station.
- 4. Further a regular Tariff Petition will be filed before the Hon'ble Commission for 2024-29 tariff period based on the year wise projected additional capitalization for the estimated additional expenditure of Rs.296.73 crores.
- 5. The LE of the Project would also facilitate the adoption of modern equipment and foster technical upgradation, thereby, increasing the efficiency of the Plant.
- 6. Further, the LE work will be undertaken in phases, depending on the availability of a particular system and unit shutdown, which will minimize the unit shutdown period, and thus, any avoidable loss in generation.
- 7. The confirmation/recommendations of the LE provided by the OEMs, and the assurance of fuel availability from M/s OIL for next 15 years is significant for the proposed LE.

In this connection an email has been forwarded to all the beneficiaries considering the attractive tariff and reliability of the station on 28th March'2024 seeking consent on the above proposal for carrying out LE of the 291 MW Assam Gas Based Power Station and to enable NEEPCO to obtain approval of the Hon'ble CERC on the same, as required by the relevant provisions of the Tariff Regulations,

Therefore, the proposal is placed for deliberation and approval in the esteemed house under the aegis and guidance of NERPC with a request for written consent from the beneficiaries.

Sub-committee may please deliberate.

5.2 Provisional Tariff for Pare HPS till determination of tariff by Hon'ble Commission for the Control Period 2024-29:

Kind reference is drawn to Hon'ble CERC order dated 17/10/2022, vide which the single part tariff of Pare HPS was approved and valid till 31.03.2024. However,

NEEPCO expresses its intent to exit from the single part tariff w.e.f. 01.04.2024. In this regard, clause no. 25 of the above referred CERC Order as quoted below may please be looked into:

" 25. In the present case, the charging of lower tariff by the Petitioner, which has been mutually agreed between the Petitioner and the Respondent APDCL through mutual negotiation, is for a period of 40 years of useful life of the plant, which is in deviation of the norms specified under the Tariff Regulations, and is in terms of the provisions of Regulation 48 of the 2014 Tariff Regulations and Regulation 66 of the 2019 Tariff Regulations. These provisions, enable the parties to charge lower tariff for a period not exceeding the validity of the said regulations i.e upto 31.3.2024. In our view, the power to remove difficulty can be exercised only to round off the angularities or minor obscurities to make the regulations workable and cannot be used to change the basic structure of the regulations. Since there is no difficulty in giving effect to the provisions of the Regulations with regard to the Petitioner charging mutually decided lower tariff, till the validity of the regulations, the prayer of the Petitioner to approve the tariff, in deviation of the norms for a period of 40 years, i.e for the period beyond the validity of the regulations (i.e 31.3.2024) is not acceptable. Therefore, the mutually decided tariff is restricted for a period till 2023-24. However, the Petitioner is at liberty to approach the Commission seeking the approval of the Commission, to charge the said mutually agreed tariff beyond 31.3.2024, at the time of truing up of tariff along with the tariff petition, in terms of the tariff regulations applicable for the next tariff period."

Further we would like to refer the Regulation no. 88 of Tariff Regulation 2024 quoted below may please be looked into

- 88. Deviation from ceiling tariff:
- (1) The tariff determined in these regulations shall be a ceiling tariff. The generating company or the transmission licensee and the beneficiaries or the long-term customer, as the case may be, may mutually agree to charge a lower tariff.
- (2) The generating company or the transmission licensee, may opt to charge a lower tariff for a period not exceeding the validity of these regulations on agreeing to deviation from operational parameters, reduction in operation and maintenance expenses, reduced return on equity and incentive specified in these regulations.
- (3) If the generating company or the transmission licensee opts to charge a lower tariff for a period not exceeding the validity of these regulations on account of lower depreciation based on the requirement of repayment in such case, the

unrecovered depreciation on account of reduction of depreciation by the generating company or the transmission licensee during useful life shall be allowed to be recovered after the useful life in these regulations. 152

- (4) The deviation from the ceiling tariff specified by the Commission, shall come into effect from the date agreed to by the generating company or the transmission licensee and the beneficiaries or the long-term customer, as the case may be.
- (5) The generating company and the beneficiaries of a generating station or the transmission licensee and the long-term customer of the transmission system shall be required to approach the Commission for charging a lower tariff in accordance with clauses (1) to (3) above. The details of the accounts and the tariff actually charged under clauses (1) to (3) shall be submitted at the time of true up.
- (6) Where a generating company and its beneficiaries or a transmission licensee and its long term customers have mutually agreed to charge a lower tariff in respect of a particular generating station or transmission system in terms of Clauses (1) to (3) of this Regulation, the said agreed tariff shall not be revised upwards at the time of truing up based on the capital cost and additional capital expenditures in accordance with these regulations: Provided that where the trued up tariff is lower than the agreed tariff, the generating company or the transmission licensee shall charge such trued-up tariff only: Provided further that the difference between the agreed tariff and the trued-up tariff shall be settled between the parties in accordance with Regulations 10(7) and 10(8) of these regulations.

In view of the above, it is intended to switch over to the two-part tariff system (as per draft regulation 24) as NEEPCO has suffered huge commercial losses resulting from under recovery of its fixed cost and anticipates that the same is likely to continue in the future as well.

Therefore, the proposal is placed for deliberation and approval in the esteemed house under the aegis and guidance of NERPC with a request for written acceptance from the beneficiaries.

Sub-committee may please deliberate.

6. AGENDA ITEMS FROM NERLDC

6.1 Deviation Pool Account outstanding:

Status of Deviation charges outstanding as on 04/04/2024:

Manipur with maximum Outstanding.

Manipur - Net O/s Payable to Pool is ₹10.49 Crores

Manipur is requested to take immediate necessary action in this regard. All the pool members are requested to clear outstanding payable due within the stipulated time to avoid late payment surcharge.

Constituent	O/S Payable
Arunachal Pradesh	₹ 84,93,042
Assam	₹ 4,33,02,549
Manipur	₹ 10,49,20,185

Sub-committee may please deliberate.

6.2 Reactive charges outstanding:

Status of Reactive charges outstanding as on 04/04/2024

Assam with maximum Outstanding.

O/s Payable to Reactive Pool by Assam ₹29.34 Lakh

All the pool members are requested to clear outstanding payable due within the stipulated time to avoid late payment surcharge.

Constituent	O/S Payable
Arunachal Pradesh	₹ 69,555
Assam	₹ 29,34,904
Manipur	₹ 2,329
Mizoram	₹ 2,86,365
Tripura	₹ 36,139

Sub-committee may please deliberate.

6.3 Signing of DSM & Reactive Reconciliation Statements:

Status of signing of Reconciliation statements of DSM & Reactive as on 04/04/2024

Pending DSM reconciliation with - Manipur & Mizoram (Quarter-3).

Pending Reactive reconciliation with - OTPC & Manipur (Quarter-3)

Manipur, Mizoram & OTPC are requested to sign the reconciliation statements as early as possible.

Constituent	Account	Status of reconciliation for Q2
OTPC	DSM & Reactive	Not Received
Manipur	DSM & Reactive	Not Received

6.4 Opening of LC against Deviation Charges Liability:

As per CERC (Deviation Settlement Mechanism and related matters) Regulations 2022, the LC amounts pertaining to NER entities are mentioned below:

	LC to be open (in Lakhs) in FY	
Constituents	24-25	Present Status
Ar. Pradesh	68.78	LC of ₹ 242.48 Lakhs, valid till
		31/03/2025
Assam	100.71	LC of ₹ 100.71 Lakhs, valid till
		01/12/2024
Manipur	19.29	LC of ₹ 19.29 Lakhs, valid till
		30/03/2025
Meghalaya	14.61	Sufficient amount retained in
		Pool
Mizoram	1.76	Letter from Mizoram to Bank
		regarding opening of LC for
		the required amount has
		only been received.
Nagaland	2.78	LC of ₹ 74.18 Lakhs, valid till 20-
		03-2025
Tripura	30.54	LC of ₹ 31 Lakhs, valid till 31-03-
		2025

Sub-committee may please deliberate.

6.5 Signing of RLDC Fee and Charges Reconciliation Statements:

NERLDC Fees and Charges Reconciliation Statements for Q-III of FY 2023-24 were issued on 19/01/2023. We have received Signed/Reconciled copy from few users. All remaining users are requested to send the signed Reconciliation Statements at the earliest.

Constituents	Period of Reconciliation	Remarks
Ar. Pradesh	Oct to Dec (Q3) ,2023-24	Signed
Assam	Oct to Dec (Q3) ,2023-24	Signed
Manipur	Oct to Dec (Q3) ,2023-24	

Meghalaya	Oct to Dec (Q3) ,2023-24	Signed
Mizoram	Oct to Dec (Q3) ,2023-24	
Nagaland	Oct to Dec (Q3) ,2023-24	Signed
Tripura	Oct to Dec (Q3) ,2023-24	Signed
NERTS(PG)	Oct to Dec (Q3) ,2023-24	Signed
NEEPCO	Oct to Dec (Q3) ,2023-24	
Loktak	Oct to Dec (Q3) ,2023-24	
NETCL	Oct to Dec (Q3) ,2023-24	
OTPC	Oct to Dec (Q3) ,2023-24	
ENICL	Oct to Dec (Q3) ,2023-24	
NTPC	Oct to Dec (Q3) ,2023-24	Signed
BNC	Oct to Dec (Q3) ,2023-24	Signed
KMTL	Oct to Dec (Q3) ,2023-24	Signed
NER-II TL	Oct to Dec (Q3) ,2023-24	

Sub-committee may please deliberate.

6.6 Publication of Draft Central Electricity Regulatory Commission (Fees and Charges of Regional Load Despatch Centre and other related matters) Regulations, 2024:

CERC has published Draft Central Electricity Regulatory Commission (Fees and Charges of Regional Load Despatch Centre and other related matters) Regulations, 2024 for the control period 2024-29. The comments/suggestions/objections may be sent to CERC on or before 6th May, 2024 at the email addresses secy@cercind.gov.in and shilpa@cercind.gov.in. For users registered in CERC SAUDAMINI portal, the comments/ suggestions/objections shall also be uploaded through the SAUDAMINI Portal by clicking the e Regulation link on the e-filing Home Page.

Sub-committee may please deliberate.

6.7 Interest calculation of DSM & Reactive Charges:

As per Cl. 10 (1) of DSM regulation,2022, defaulting constituents shall have to pay interest and same is disbursed to the constituent who had not received payment due to delay in payment by the defaulting constituents.

At present NERLDC has issued DSM Interest statements till Week-25 FY22-23. NERLDC is requesting to issue the DSM Interest Statements by NERPC as per Cl.9(3) "Separate books of accounts shall be maintained for the principal component and interest component of charges for deviation by the Secretariat of the Regional Power Committees". All the required details of payments/settlements will be provided by NERLDC.

At present NERLDC has issued Reactive Interest statements till Week-50 FY21-22. Reactive Interest is also accounted as per IEGC and same methodology is followed like DSM. Therefore, NERLDC is requesting to issue the Reactive Interest Statements by NERPC as per present practice of calculation and periodicity. All the required details of payments/settlements will be provided by NERLDC. Sub-committee may please deliberate.

7. AGENDA ITEMS FROM NERTS

7.1 Outstanding dues:

The total outstanding dues (pertaining to both PoC as well as non-PoC billing) payable by NER beneficiaries to CTUIL/POWERGRID as on **04.04.2024** is detailed below: -

(All Figures in Rs. Crores)

State/DIC	Outstanding dues > 45 days	Total Outstanding dues	Remarks
Arunachal Pradesh	0.00	4.98	Approx. 1month receivables
APDCL, Assam	0.00	39.95	Approx. 1 receivable
MSPDCL, Manipur	4.87	16.78	Approx. 03months receivables
MSPCL, Manipur	4.28	4.50	Approx. 13months receivables and outstanding Non POC arrear bills
MeECL, Meghalaya	0.00	6.98	Approx. 01month receivables
Mizoram	3.76	8.31	Approx. one month Transmission Charges bill and outstanding 13months Non POC bill and arrear bill
Nagaland	0.00	5.49	Approx. 01 months receivables

TSECL, Tripura	10.34	30.25	Approx. 03 months receivables
NHPC	0.02	0.02	

Concerned DICs with >45 days outstanding dues, viz. TSECL, MeECL, Mizoram, MSPDCL, & MSPCL may be impressed upon to clear the outstanding dues immediately since POWERGRID and other transmission licensees (on behalf of whom CTUIL does the billing & collection) are facing financial constraints due to accumulation of such huge outstanding dues. Further MSPCL & Mizoram are requested to liquidate the long pending outstanding dues of POWERGRID against Non POC Bills which also attract audit observations.

Sub-committee may please deliberate.

6.2 Status of LC of NER beneficiaries (as per new requirement):

As it is known to all concerned that Central Transmission Utility of India Ltd (CTUIL), a subsidiary of POWERGRID, has started functioning as CTU w.e.f. 01.04.2021 as per notification dated 09.03.2021 issued by MoP, GoI and accordingly, the Billing, Collection and Disbursement of transmission charges (*for PoC billing*), a function of CTU, is being undertaken by CTUIL with effect from **01.04.2021**.

Consequent to above, separate LCs in favour of CTUIL (for PoC Billing) and POWERGRID (for non-PoC billing) in place of existing LCs, which are in favour of POWERGRID, are to be maintained by DICs in line with provisions of Regulation 19 of CERC Sharing Regulations, 2020 and to avail CTUIL rebate scheme for FY 2023-24 & 24-25.

The status of LCs (as per above new requirement) of NER DICs as on **04.04.2024** is as follows: -

State / DIC	LC in favour of CTUIL	LC in favour of POWERGRID
State/DIC	(for PoC billing)	(for non-PoC billing)
Arunachal Pradesh	Available	Available
APDCL	Available	Available
MSPDCL	Available	-
MSPCL	-	Not Available
MeECL	Available	Available
Mizoram	Available	Available

Nagaland	Available	Available
TSECL	Available	Available

STATUS OF QUARTERLY RECONCILIATION FOR Q-3 OF FY 2023-24:

State/DIC	Reconciliation in favour of CTUIL (for PoC billing)	Reconciliation in favour of POWERGRID (for non-PoC billing)
Arunachal Pradesh	Received	Received
APDCL	Received	Received
MSPDCL	Received	Received
MSPCL	-	Received
MeECL	Received	Received
Mizoram	Received	Received
Nagaland	Received	Received
TSECL	Received	Received
NEEPCO	Received	Received
NHPC	Not Received	-
NTPC	Not Received	-
NETC	Not received	-
OTPC	Received	-

NHPC, NTPC and NETC is requested to kindly arrange the signed reconciliation statement for Q-3 of FY 2023-24.

Sub-committee may please deliberate.

7. AGENDA ITEMS FROM OTPC

7.1 Outstanding Dues of OTPC against NER beneficiaries – OTPC:

The current total outstanding dues of OTPC against the NER beneficiary states (as on 10-04-2024) are as under:

Agenda | 51st CC Meeting | 26th April 2024

(Amount in Rs Crores)

S1. No.	Beneficiary	Outstanding Dues (>45 Days)	Total Outstanding
1	Manipur	8.88	23.47
2	Tripura	30.39	88.10
	Total	39.27	111.57

As per Ministry of Power, Govt. of India scheme, OTPC had agreed for payment in installments for outstanding dues from Manipur without levy of any surcharge amount for the benefit of Manipur state. Still Manipur state is not liquidating the current dues and the outstanding dues amount is again increasing. The State of Manipur, Mizoram and Tripura is also requested to streamline their payment process. The forum is requested to impress upon Manipur and Tripura to clear their current dues.

Sub-committee may please deliberate.

ANY OTHER ITEMS

DATE AND VENUE OF NEXT COMMERCIAL COMMITTEE MEETING

The next Commercial Coordination Sub-Committee meeting will be held in the month of July 2024. The date and venue will be intimated separately.



NORTH EASTERN REGIONAL POWER COMMITTEE (CONDUCT OF BUSINESS RULES) 2024

CHAPTER-1 GENERAL

1. Short title and commencement

- (i) Ministry of Power (MoP), Government of India (GoI), under the provision of Section 2, Subsection 55 of the Electricity Act, 2003 vide Resolution F.No: 23/21/2021-R&R dated 3rd December 2021 and corrigendum dated 17th December 2021 published in the Gazette Of India has established the North Eastern Regional Power Committee herein after referred to as NERPC comprising States of Arunachal Pradesh, Assam, Manipur, Meghalaya, Mizoram, Nagaland & Tripura.
- (ii) As per Clause-9 of the aforesaid Resolution dated 3rd December 2021, the NERPC hereby makes the following rules which may be called "The North Eastern Regional Power Committee (Conduct of Business) Rules, 2024".
- (iii) These rules shall come into force from the date of its approval by the NERPC and shall remain in force unless otherwise modified.
- (iv) Chairperson, CEA approved Standard Operating Procedure (SOP) (Appendix-1) for budgeting and expenditure of RPCs communication dated 01.05.2023 and amendment thereof shall for part of North Eastern Regional Power Committee (Conduct of Business) Rules.

2. Definitions

- 2.1 In these Rules unless the context otherwise requires:
- (a) 'Act' means the Electricity Act, 2003.
- (b) 'Agenda' means the list of business proposed to be transacted at a meeting of the Committee or Sub-Committee.
- (c) 'Authority' means Central Electricity Authority (CEA).
- (d) 'Commercial Sub-Committee (CC)' means a Sub-Committee constituted by the Committee to consider commercial related issues.
- (e) 'Commission' means Central Electricity Regulatory Commission (CERC)
- (f) 'Committee' means the North Eastern Regional Power Committee constituted by the Central Government under Sub-Section (55) of Section 2 of the Electricity Act, 2003.
- (g) 'Constituent' means the utility organisation of the Member of the Committee.
- (h) 'IEGC' means the Indian Electricity Grid Code specified by Central Electricity Regulatory Commission.
- (i) 'Meeting' means a meeting of the Committee or Sub-Committee convened by the Head of the Secretariat or any member authorized to convene a meeting in the absence of the head of Secretariat.
- (j) 'Member' means the member of the NERPC as per Resolution of the Government of India on establishment of NERPC dated 3rd December 2021 and as amended from time to time.

- (k) 'NLDC' means National Load Despatch Center.
- (I) 'Operation Coordination Sub-Committee (OCC)' means a Sub-Committee constituted by the Committee to consider all issues related to operation of the regional grid.
- (m) 'Protection Coordination Sub-Committee (PCC)' means a Sub-Committee constituted by the Committee to consider all power system protection related issues.
- (n) 'Rule' means North Eastern Regional Power Committee (Conduct of Business) Rules, 2024.
- (o) 'SLDC' means State Load Despatch Center.
- (p) 'NERLDC' means North Eastern Regional Load Despatch Center.
- (q) 'NER Telecommunication, SCADA & Telemetry Coordination Sub Committee Coordination Sub-Committee (NeTEST)' means a Sub-Committee constituted by the Committee to consider all issues related to communication of the regional grid.
- (r) 'Sub-Committee' means the Sub-Committee constituted by NERPC to guide and assist it in conducting the functions assigned to it.
- (s) 'Technical Coordination Sub-Committee (TCC)' means a Sub-Committee constituted by the NERPC to assist the NERPC in all technical, commercial and other matters.
- (t) 'Year' means financial year
- 2.2 Words and expressions used in these rules and not defined herein but defined in the Act or any other regulations specified by the Authority or the Commission shall, unless the context otherwise requires, have the meanings assigned to them under the Act or other regulations specified by the Authority or the Commission, as the case may be.
- 2.3 Reference to any Acts, Rules and Regulations shall include amendments or consolidation or reenactment thereof.

3. Functions of NERPC

As per Clause-6 of the MoP Resolution dated 3rd December 2021 NERPC shall carry out following functions:

- 1. To undertake Regional Level operation analysis for improving grid performance.
- 2. To facilitate inter-state/inter-regional transfer of power.
- 3. To facilitate all functions of planning relating to inter-state/ intra-state transmission system with CTU/STU.
- 3A- To provide views on the inter-state transmission system planned by CTU within 45 days of receipt of the proposal by the concerned RPC. The views of RPC will be considered by National Committee on Transmission for sending their recommendation to Ministry of Power for approval of new inter-state transmission system.
- 4. To coordinate planning & maintenance of generating machines of various generating companies of the region including those of inter-state generating companies supplying electricity to the Region on an annual basis and also to undertake review of maintenance programme on a monthly basis.
- 5. To undertake planning of outage of transmission system on a monthly basis.

- 6. To undertake operational planning studies including protection studies for stable operation of the grid.
- 7. To undertake planning for maintaining proper voltages through review of reactive compensation requirement through system study committee and monitoring of installed capacitors.
- 8. To evolve consensus on all issues relating to economy and efficiency in the operation of power system in the region.

4. Secretariat of NERPC

- 4.1 Clause-8 of MoP Resolution dated 3rd December 2021 specifies that "The Committee shall have a Secretariat of its own which will be headed by the Member Secretary of the Committee. The Member Secretary as well as other staff for the Secretariat shall be provided by the Central Electricity Authority in the manner as was being provided to the erstwhile North Eastern Regional Electricity Board."
- 4.2 Secretariat shall perform the following duties namely:
- a) Keep custody of records of proceedings, of the Committee, Sub- Committees, Task Force and Working Groups of the NERPC.
- b) Prepare agenda for the Committee and Sub-Committee meetings.
- c) Prepare minutes of Committee and Sub-Committee meetings.
- d) Take follow-up action on the decisions taken in the Committee &Sub- Committee meetings.
- e) Maintain archive of data and information pertaining to operational matters, commercial accounting, protection system and communication system of the regional power system.
- f) Collect from constituent members or other offices, companies, firms or any other party asmay be directed by the Committee, such information as may be considered useful for the efficient discharge of functions of the Committee under the Resolution and Place the information before the Committee and its sub-committees.
- 4.3 The duties and responsibilities envisaged under CEA Regulations, Indian Electricity Grid Code (IEGC), Regulations made by CERC, NERPC Resolution, from time to time, shall be carried out by the Member Secretary, NERPC Secretariat.

4.4 Human Resources:

- (1) As per MoP Resolution 3rd December 2021, CEA shall provide the officers and staff to man the Secretariat as was being provided to the erstwhile North Eastern Regional Electricity Board. However, as and when CEA is unable to depute the requisite number of Group "A" or Group "B" Officers, the vacant posts other than Member Secretary, shall be got filled up by drawing officers from constituents (only from Central/State utilities) on loan/ diversion basis until CEA provides the Officers.
- (2) As and when CEA is unable to provide requisite number of Group "C" or "D" officials, the vacant posts shall be got outsourced through competitive bidding route for a period up to two (2) years or until CEA provides the manpower.

- (3) Member Secretary is also empowered to appoint personnel for a short period up to three (3) months. The expenditure shall from Annual subscription from the constituent utilities (under Item number 26).
- (4) NERPC may avail the service of adequate number of persons, experts or consultants for specific task. The expenditure shall from Annual subscription from the constituent utilities (under Item number 26).

5. Reimbursement of annual expenditure of NERPC Secretariat

- (1) NERPC Secretariat shall maintain two funds, namely, 'NERPC Establishment Fund' and 'NERPC Board Fund'.
- (2) 'NERPC Board Fund' shall be utilized to meet the expenses related to sub-committee meetings, other NERPC meeting, workshops, training, etc and other expenses as approved by the Committee.
- (3) All expenditure of heads for Secretariat expenses other than "Salary" shall be met from "NERPC Establishment Fund". CEA shall provide budget to RPCs for "Salary" head only.
- (4) The Constituents shall deposit the contribution on annual basis by the end of April every year in the Bank Accounts of both the funds, opened and operated by NERPC Secretariat in a schedule commercial bank, the amount intimated by NERPC Secretariat. Surplus of a particular year would be retained in the NERPC Establishment Fund or as decided by the Committee. Management of surplus fund shall be at the sole discretion of the Committee.
- (5) The Committee shall decide and collect contribution amount from their member organizations after approval of chairman NERPC/ Committee.
- (6) All the Members of NERPC except CEA, NLDC, CTUIL and NERLDC shall contribute in the funds in the beginning of the financial year, in the manner as agreed by the committee.
- (7) The Committee shall finalize its annual Internal Budget (except salary) and get its approval in committee meeting. Quarterly expenditure from both the funds would be put up in the NERPC meeting regularly for intimation / approval.
- (8) Any deficit or additional requirements would be reimbursed by Constituents under approval of the Committee.
- (9) The "NERPC Establishment Fund", shall be operated by NERPC Secretariat in line with the Chairperson CEA approved "Standard Operating Procedure" (SOP) [refer Appendix-1].
- (10) Expenditure from both the Funds created shall be made with the approval of Member Secretary, NERPC.
- (11) The statement(s) of the fund shall be verified by the officer nominated by Member Secretary, NERPC. The officers nominated shall be other than the officers handling the fund. The Member Secretary, NERPC will approve the statement of the fund before placing the same to auditor.
- (12) The fund shall be got audited every year by nominated member(s) among the constituents by the Committee.
- (13) Audited Report shall be put up to Committee for perusal.

6. Furnishing of data/information to Secretariat of NERPC

- (1) NERLDC shall provide to Member Secretary, NERPC a computer terminal to have a view of all the parameters in real time frame of regional grid system.
- (2) All constituents and other entities in the region shall make available all data/information required by the Secretariat to discharge its functions or to carry out any other responsibility/function assigned to it by the Authority/Commission/Committee. It shall also be responsibility of the constituents to ensure that any data though not specifically asked for by the Secretariat, but which may be required for the specific responsibility/function assigned to the Secretariat is also made available to the Secretariat.

7. Chairperson of NERPC

The chairperson of NERPC would be nominated as per GoI Ministry of Power Resolution F.No: 23/21/2021-R&R dated 3rd December 2021, as amended from time to time.

8. Website of NERPC

The NERPC shall have its own website which shall be maintained by NERPC Secretariat.

CHAPTER-2 PROCEDURE FOR CONDUCTING NERPC MEETINGS

9. Place and date of NERPC Meeting

- (1) The place and date of the meeting will be decided by Member Secretary, NERPC in consultation with Chairperson, NERPC.
- (2) Meetings will be hosted by the member organization as per the roster prepared by Member Secretary, NERPC in consultation with the members of the NERPC.
- (3) In case the situations are not conducive for physical meetings, the meetings will be conducted through Video Conferencing.

10. Notice for the NERPC Meetings and Agenda

- (1) Notice for the Committee meetings shall be issued by Member Secretary, NERPC at least 10 / 15 days in advance in consultation with Chairperson NERPC. In case of emergency meeting required to be conducted to carry out urgent business, notice of one week is to be given.
- (2) The Agenda points for the meeting shall be sent to the Member Secretary by the members at least 10 days in advance of the meeting. The Member Secretary, NERPC shall finalize the agenda and circulate the same to all its members at least 7 days in advance and also post it on the website.
- (3) Agenda for the Committee meeting shall generally be put up after discussions in Technical Coordination Sub-Committee (TCC). Agenda items can be put up directly only in the cases involving urgent matters/policy issues.
- (4) Member Secretary, NERPC may also put any agenda involving urgent matters/policy issue directly in consultation with Chairperson, NERPC. The same will be circulated/uploaded on website at least 1-3 days prior the Meeting.
- (5) Member Secretary, NERPC may convene a meeting at short notice on any urgent matter in consultation with Chairperson of the Committee.

11. Effect of Non-receipt of Notice of Meeting by a Member

The non-receipt of notice by any member of NERPC or Sub-Committee shall not invalidate the proceeding of the meeting or any decision taken in the meeting.

12. Cancellation / Re-scheduling of Meeting

If a meeting is required to be cancelled or rescheduled the same shall be intimated to the members at the earliest by telephone /e-mail and also posted in NERPC website immediately.

13. Periodicity of NERPC Meetings

The NERPC shall meet at least once in six months. However, the Committee may meet to discuss any issue as and when required in consultation with Chairperson, NERPC.

14. Quorum of NERPC Meeting

- (1) The quorum of the meeting shall be 50% of its members for routine business and a quorum of 75% for amendments to North Eastern Regional Power Committee (Conduct of Business) Rules, 2024. The Members may nominate their representatives to represent NERPC meetings through official communication and the representative would be considered as quorum.
- (2) All decision in the NERPC shall be taken by consensus.
- (3) The decision of the NERPC arrived at for Operation of the Regional Grid and Scheduling and dispatch of electricity shall be followed by North Eastern Regional Load Despatch Centre (NERLDC) subject to the directions of regulations of the Central Commission.
- (4) Only Members of NERPC & TCC and NERPC Secretariat shall participate in NERPC Meetings. The invitees by the Committee may also attend the meeting.

15. **Presiding Authority**

- (1) The Chairperson, NERPC shall preside over the meeting of NERPC.
- (2) The Member Secretary, NERPC shall convene the meeting of NERPC.
- (3) If the Chairperson is unable to be present at the meeting for any reason, the senior member from the State utilities present in the meeting shall be nominated by Member Secretary to preside over the meeting.
- (4) If the Member Secretary is unable to be present at the meeting for any reason, the next senior most officer of the NERPC Secretariat shall convene the meeting.

16. Recording of the Minutes

- (1) The minutes of the meeting shall be finalized and circulated to all its members by the Member Secretary, NERPC within 20 working days from the date of the committee Meeting. The minutes shall also be posted on the website of NERPC.
- (2) The discussions during the meeting shall be audio recorded and the recording shall be kept at the secretariat of NERPC till the confirmation of the Minutes. The member organization hosting the meeting shall extend all facilities for audio recording of the proceedings of the meeting.

17. Confirmation of the Minutes

Minutes of the NERPC meeting shall be placed in the next meeting for confirmation. However, in case of urgency the minutes may be confirmed by circulation.

CHAPTER-3 SUB-COMMITTEES OF NERPC

18. Constitution of Sub-Committees of NERPC

- (1) Following Sub-Committees will be constituted by NERPC to guide and assist it in conducting the functions assigned to it.
- a) Technical Co-ordination Sub-Committee (TCC)
- b) Operation Co-ordination Sub- Committee (OCC)
- c) Commercial Sub-Committee (CC)
- d) Protection Co-ordination Sub-Committee (PCC)
- e) NER Telecommunication, SCADA & Telemetry Coordination Sub-Comminute (NeTEST)
- (2) NERPC, Member Secretary, NERPC or any other Sub-Committee may constitute Task Force, Working Group, Sub-Group, Core Group for specific purpose among members and external experts to advice on any specific issue.

19. TECHNICAL CO-ORDINATION SUB-COMMITTEE (TCC)

- (1) Functions:
- (i) Technical Co-ordination Sub-Committee, shall consider all issues referred by the Operation Co-Ordination Sub-Committee, Commercial Sub-Committee, Protection Co-ordination Sub-Committee and System Studies Sub-Committee concerning operation of regional grid, commercial aspects; inter-state / inter- regional transfer of power, grid stability, protection etc. leading to economy and efficiency in the operation of power system in the region.
- (ii) TCC shall implement the decisions of the NERPC and also provide guidance and assist NERPC in discharge of its functions and formulation of policy matters on regional grid operation, grid security, commercial matters etc.
- (2) Composition of Technical Co-ordination Sub-Committee:
- (i) TCC shall be represented by the Technical Members of the NERPC constituents dealing with the Generation / Transmission /Distribution and representative from Central Electricity Authority. The representation shall be at the level of Technical Members in State Utilities, Executive Directors/Chief General Manager in PSUs, Technical Heads of Distribution Company Traders/IPPs and Chief Engineer in CEA.
- (ii) Chairperson, NERPC from their concerned State shall appoint the Chairperson TCC. Chairperson, TCC shall be rotated every year from among the States in the same order as Chairperson of NERPC.
- (3) Meetings:
- (i) TCC shall meet before the NERPC meeting and put up its recommendations to the NERPC.

- (ii) TCC shall meet separately also as and when needed to address urgent issues or specific issues, if any, concerning the operation of regional grid, security of the grid, commercial matters and other issues.
- (iii) The Chairperson of the TCC shall preside over the meeting and in case Chairperson is unable to be present, members present shall elect a person among themselves to preside over the meeting.
- (iv) Member Secretary, NERPC shall convene the TCC meeting.

20. OPERATION CO-ORDINATION SUB-COMMITTEE (OCC)

- (1) Functions:
- (i) Operation Co-ordination Committee (OCC) shall discuss all issues related to operation of the regional grid viz. reviewing the schedule v/s actual generation of various power stations drawn up in the previous month, estimating the availability of power and energy from each power station and demand of each State, for the current and next month; drawing up coordinated maintenance schedule for generating units and major transmission lines, reviewing of operational discipline and its norms to be observed by constituents. Reviewing the Automatic Under-Frequency Relays, discussing system occurrences, if any, during the previous month and reviewing the status of implementation of the recommendations of the inquiry Committees and any other matter referred by the TCC/NERPC, ensuring compliance of Regulations of CERC & CEA by constituents and resolving issues related to grid operation in the region.
- (2) Composition of Operation Co-Ordination Committee:
- (i) OCC shall be represented by the representatives of the constituent members of NERPC. The nominated representative shall be at the level of Chief Engineer and equivalent level.
- (ii) Member Secretary, NERPC shall be Chairperson of the OCC and preside over the meetings.
- (iii) Superintending Engineer of NERPC Secretariat shall be convener of the OCC.
- (3) Meetings: The meeting will be held every month generally before the 10th day of the month.

21. COMMERCIAL SUB-COMMITTEE (CC)

- (1) Functions:
- (i) Commercial Sub-Committee (CC) shall discuss all commercial related energy accounting to be carried out by NERPC secretariat, schemes required for inclusion in the Bulk Power Supply Agreements, requirement of power from the new projects, installation of special energy meters and its cost sharing, etc., metering aspects, reviewing of the payments towards DSM charges, treatment of transmission losses, commercial -declaration of lines/substation and Generating units commercial issues in inter-state and inter-regional exchange of power, issues concerning settlement of payments among constituents, if any, etc. and any other matter referred by the TCC/NERPC.
- (2) Composition of Commercial Sub-Committee (CC):
- (i) Commercial Sub-Committee shall be represented by the representatives of the constituent members of NERPC. The nominated representative shall be Commercial Heads in the member organisation.
- (ii) Member Secretary, NERPC shall be Chairperson of the CC and preside over the meetings.

- (iii) Superintending Engineer of NERPC Secretariat shall be convener of the CC.
- (3) Meetings: The meeting will be held quarterly or as and when required to address the issues of urgent nature. Meetings will be hosted by the member organization as per the roster prepared by Member Secretary, NERPC in consultation with the members of the NERPC.

22. PROTECTION CORDINATION SUB-COMMITTEE (PCC)

- (1) Functions:
- (i) Protection Coordination Sub-Committee (PCC) shall discuss all power system protection related issues, viz., analysis of system disturbances in the region, review of protective relaying schemes, relay coordination, islanding schemes, automatic under frequency load shedding schemes, review of the implementation of recommendations made by the Enquiry Committee of the grid disturbance in the region concerning the above matters, etc. and any other matter referred by the TCC/NERPC, ensuring compliance of Regulations of CERC & CEA by constituents and resolving issues related to grid protection in the region.
- (2) Composition of Protection Coordination Sub-Committee:
- (i) PCC shall be represented by constituent members of NERPC. The nominated representative shall be at the level of 'Chief 'Engineer or equivalent level and concerns with power system protection/testing in the region.
- (ii) Member Secretary, NERPC shall be Chairperson of the PCC and preside over the meetings.
- (iii) Superintending Engineer of NERPC secretariat shall be convener of the PCC.
- (3) Meetings: The meeting will be held monthly or as and when required to address the issues of urgent nature.

23. **NeTEST SUB-COMMITTEE**

- (1) Functions: NeTEST Sub-Committee shall carry out following functions:
- (i) Resolving issues related to tele communication, SCADA & telemetry, cyber security in the region.
- (ii) ensuring compliance of Regulations of CERC & CEA by constituents and resolving issues related to grid protection in the region.
- (iii) any other technical study referred by the NERPC/TCC
- (2) Composition of NeTEST Sub-Committee (NeTEST):
- (i) NeTEST Sub-Committee shall be represented by the Members of the NERPC constituents at the level of Superintending Engineer familiar with the subject.
- (ii) Member Secretary, NERPC shall be Chairperson of the NeTEST and preside over the meetings.
- (iii) Superintending Engineer of NERPC secretariat shall be convener of NeTEST.
- (3) Meetings: The meeting will be held quarterly or as and when required to address the issues of urgent nature.

CHAPTER-4 PROCEDURE FOR CONDUCTING SUBCOMMITTEE MEETINGS

- 24. Conducting of Sub-Committee Meetings, issue of Notice, agenda & minutes:
- (1) The notice for the above sub-committee meeting shall be issued at least 10- 15 days before the date of meeting and agenda points one week before the meeting by the NERPC Secretariat. The minutes of the meeting shall be finalised by Member Secretary and issued by NERPC Secretariat within 15 working days of the meeting.
- (2) The decision of the Committee arrived at for Operation of the Regional Grid and other above functions shall be implemented by the Constituents. In case the Sub-Committee recommends the matter to the TCC/ NERPC, for further deliberation or decision, the same shall be referred by NERPC secretariat to TCC/NERPC.
- (3) The meetings will be conducted at the place and venue preferably located in the Region to be decided by Member Secretary, NERPC.
- (4) Meeting may be hosted by the member organisations as decided by Member Secretary, NERPC in consultation with the members of the sub- committee. All the arrangements required for conducting the meeting shall be made by the host member organisation.

CHAPTER-5 MISCELLANEOUS

25. REPORTS BY NERPC

The following reports shall be prepared and furnished by NERPC Secretariat:

SI No.	Name of the Report	Periodicity
1	Annual Report of NERPC	Annual

26. Savings of inherent Power of the NERPC and Repeal

- (1) Save as otherwise provided in these rules, the North Eastern Regional Power Committee (Conduct of Business) Rules, 2024 is hereby repealed.
- (2) Nothing in these Rules shall bar the NERPC from adopting in conformity with the Act procedure that is at variance with provisions of these Rules, if the NERPC in view of the special circumstances of a matter or class of matters deem it necessary or expedient to deal with such a matter or Class of matters.
- (3) Nothing in these Rules shall expressly or by implication, bar the NERPC to deal with any matter or exercise any power under the Act-for which no Rules have been framed and NERPC may deal with such matters, and functions in a manner it thinks fit.

Standard Operating Procedure (SOP) For budgeting and expenditure of RPCs

1. Budget of RPCs:

- 1.1 RPCs shall decide and collect contribution amount from their member organizations after approval in committee meeting.
- 1.2 RPCs shall finalize its annual internal Budget (except Salary head) and get its approval in committee meeting. Quarterly expenditure from 'RPCs internal budget' shall be put up for intimation/approval in concerned RPCs meeting.
- 1.3 CEA shall provide budget to RPCs for 'Salary' head only.

2. Expenditure of RPCs:

- 2.1 All expenditure of 'Salary' head shall be met by budget provided by CEA. The same shall be reimbursed by RPCs to CEA quarterly in line with MoP letter no. 6/10/90-Trans dtd. 03.04.2006 (**Annexure-1**).
- 2.2 All expenditure of heads other than 'Salary', shall be met by concerned RPCs Fund.

3. Delegation of Financial Power:

3.1 Member Secretary, RPC shall have following financial powers for expenditure:

Recurring Expenditure	Upto 10 Lakh (per case)
Non-Recurring Expenditure	Upto 25 Lakh (per case)

- 3.2 For amount more than mentioned above, Member Secretary may incur after prior discussion and approval in respective RPCs meeting.
- 3.3 All type of new construction/project, intended for long duration (such as construction of new building) shall be done after approval of CEA/MoP. For all kind of maintenance work, it shall be done with the approval of MS of respective RPC.

4. IFD for expenditure:

4.1 CEA shall be IFD for only those budget heads (Salary) which has been allocated by CEA. For all other expenditure, approvals shall be taken in RPC meeting only.

5. Compliance of government rules:

5.1 Any expenditure from RPCs fund shall be done as per GFR and other applicable rules, guidelines and manuals of Central Government.

6. Mode and payment of procurement:

6.1 Procurement from RPC Fund shall be done from GeM portal only. Any relaxation of GeM portal may be permissible in accordance with government order/rules only.

7. Creation of Other Specific Funds:

7.1 The RPCs may create any other Fund for any specific purpose with approval of RPC committee.

8. Procedure for audit:

- 8.1 Internal audit shall be done by Director level official(s) (not dealing administration matters) of same RPC.
- 8.2 External audit shall be done from a CA Firm.

9. Amendment in SOP:

9.1 Amendment in SOP may be proposed after joint discussion by all Member Secretaries of RPCs for approval of Chairperson, CEA.



BUDGETARY OFFER FOR RENEWAL OF AMC FOR "PROTECTION DATABASE MANAGEMENT TOOL".



SUBMITTED BY,

Power Research & Development Consultants Private Limited



#5, 11thCross, 2nd Stage, West of Chord Road, Bangalore -56008 +91 - 80 - 4245-5555 info@prdcinfotech.com

Offer Details

Title	Renewal of AMC for "Protection Database Management Tool"				
Customer	North Eastern Regional Power Committee (NERPC)				
Enquiry Reference.	E-mail dated 09-04-2024 From Mr. Vikash Shankar, IES(CPES) AEE/AD-I, NERPC MoP, GoI.				
Proposal Reference No.	PRDC/KOL/2024-25/NERPC/008				
Proposal Version	Version 1.0				
Copyright & reproduction	This proposal is submitted by M/s Power Research & Development Consultants Private Limited to NERPC response to Email Enquiry Dated-09-04-2024. It may not be used for any other purposes, reproduced in whole or in part, nor passed to any organization or person.				
Validity	10 th July 2024.				
Contact Person for the Offer	Mr. Somen Sengupta				
Address of Correspondence	Power Research & Development Consultants Private Limited #5, 11th Cross, 2nd Stage West of Chord Road, Bangalore- 560 086 Tel: +91-80- 4245 5555 Cell: +91-9608457153 Email: somen.sengupta@prdcinfotech.com Website: www.prdcinfotech.com				
Corporate Identification Number (CIN)	U72200KA1994PTC015487				
Prepared by	Mr. Somen Sengupta				
Reviewed by	Ms. Debarati Basu				
Authorized by	Ms. Debarati Basu				



Power Research & Development Consultants Pvt. Ltd.

#5, 11th Cross, 2nd Stage, WOC Road, Bengaluru - 560 086, INDIA. Email: info@prdcinfotech.com | Tel +91-80-4245 5555 / 6715 6100 | Fax +91-80-23192210

CIN - U72200KA1994PTC015487



Our Ref: PRDC/KOL/2024-25/NERPC/008

Ms. Debarati Basu Executive Director 09th April 2024

To, The Assistance Executive Engineer, M/s North eastern regional Power Committee (NERPC), Jowai Road, Umpling Shillong, Meghalaya - 793006.

Sub: "Submission of Quotation against Email Enquiry Dated- 09.04.2024.

This has reference to your email enquiry for **Renewal of AMC for "Protection Database Management Tool"** We, Power Research & Development Consultants Private Limited (PRDC) are **30 years** old **ISO 9001:2015** QMS and ISO/IEC 27001:2013 certified organization are pleased to submit our proposal. PRDC is one of the largest professional Power Sector Consulting firms offering specialized services in Power System Consulting, Software & Embedded solutions along with emerging technologies viz RE, BESS, e-Mobility etc. Our global footprint in more than 37countries includes International & multi-lateral donor agencies, Power Utilities, Regulatory bodies, Industrial conglomerates, RE Developers, Global consulting houses, global think tanks, Research & Academic Institutions.

Our services for Power Utilities encompass a wide spectrum of power system studies ranging from analysis of a nanosecond time frame phenomenon to years ahead requirements to forecasts demand. Having 160+ experts with research capabilities and cross functional experience in the power sector, PRDC can undertake all types of power system simulations and offer effective and quality solutions. The projects executed by us spanned across basic loss calculations to complex network simulations and market mechanism.

The enclosed proposal has been prepared by mapping all our relevant experience & expertise required for executing the scope envisage in the email enquiry.

Our experience of executing several such assignments enables us to deliver better than the best. Assuring you our best services at all times.

Thanking you Sincerely,

Power Research and Development Consultants Private Limited

Ms. Debarati Basu Executive Director

ABOUT PRDC

Power Research & Development Consultants Private Limited (PRDC) is an ISO 9001:2015 QMS certified 26 year old company. PRDC is one of the largest professional power systems consulting service firm with seasoned power system experts having diverse experience. Core competence of PRDC is in the area of power system consulting, power system analysis, distribution and transmission planning, design and analysis, design & development of complete solutions for SCADA, Industrial Automation & engineering simulation software and embedded system solutions.

OUR STRENGTHS

Power System Studies

Power System Consulting

Renewable Integration

Transmission System Analysis

Power System Protection

Distribution Solutions

Integrated Software Solutions

Customized Software Solutions

RE/EV/BESS Integration studies

Grid Ancillary Services

Impact of EV on local grids

Impact of large Scale RE Penetration on Grid

EV charging infrastructure

DER penetration studies

Loss Assessment

assessment

Demand side management

Distribution Automation

Advanced Meter Infrastructure

Energy Auditing



Transmission Solutions

Transmission Planning

Loss Evaluation

Dynamic VAR Compensation



Generation Solutions

Generation Planning

Evacuation Scheme

Evaluation Generator Parameters

Grid Interconnection Study

.. . - ..



Distribution Solutions

Distribution Planning

Energy Auditing & Loss Computation

Feeder/asset Mapping and Analysis

PRDC is proud to have worked in projects funded by multilateral & institutional funding agencies also. This experience in turn provides us the capability and the necessary wherewithal in executing the current assignment maintaining the best international standards. A snapshot of the various institutional funding agencies with whom PRDC is involved is as under:



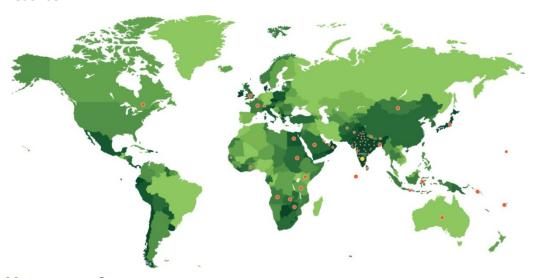


Renewal of AMC for "Protection Database Management Tool"



Our global expertise enables us to provide multi-disciplinary services in power sector with a range of working experience with Electrical utilities throughout India, Bangladesh, Nepal, Bhutan, Middle East, Africa South East Asia and across the globe on various fronts.

Global Presence



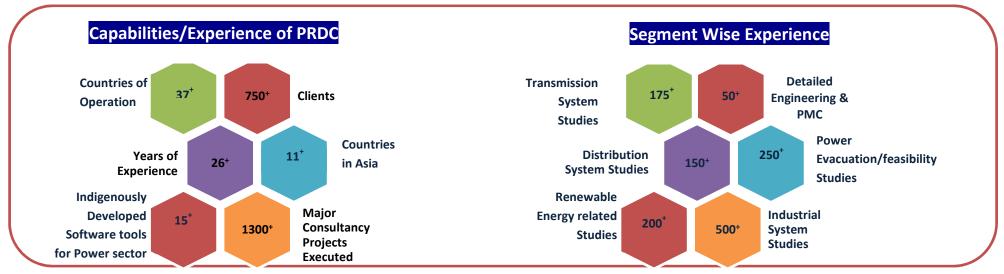
Quality Management System

PRDC is an ISO 9001:2015 certified organization and it is following this quality standards. We have established, documented, implemented and maintained a Quality Management System (QMS) for smooth and efficient working of the organization. The QMS covers all functions and their interactions to ensure delivery of quality services to comply with client requirements and expectations.

Information Security Management System - ISO/IEC 27001

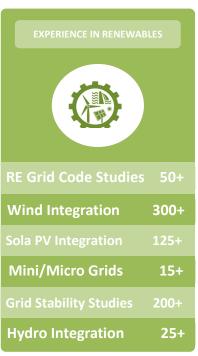
PRDC is also certified with ISO/IEC 27001:2003 in accordance with requirement of ISO 27001 to maintain and secure the data of all our clients and stake holders.

















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Telephone: +91-80-424 555 55, Fax: +91-80- 2319 2210/ 4245 555

SCOPE OF WORK

Detailed scope of work for protection Studies for NERPC AMC renewal Support.

Protection of the electrical system is one of the important tasks in the power engineering field. Power system protection engineering field deals with precautionary measures to be taken to safeguard the power system during abnormal operating conditions.

Keeping in view the importance of a comprehensive database and protection setting tools for a healthy power system, North Eastern Regional Power Committee has completed the PSDF funded project for creation and maintenance of protection database for north eastern region. The objective of this project was to create/build requisite tools that can be pressed into service for studying the behavior of relays and the protection system as a whole due to various system contingencies and also create and maintain a regional protection database with role-based access so that all relay setting and protection schemes are available up to date.

With the updated database the utilities are able to check the relay details and settings along with all necessary protection data perform tripping incident analysis in the protection setting calculation tool.

- 1. Depending upon the future scenario and upcoming developments new substation and elements will be added with grid. For maintaining the healthiness of the existing database below activities will be carried out by PRDC for the next one year on regular/daily basis.
 - a. New element addition as per OCC meeting
 - b. Data updation in PSCT and PDMS
 - c. Modification on Geo Map
 - d. Software Enhancement and bug fixing for PSCT and PDMS
 - e. DMNS Reporting
- 2. PRDC will attend monthly PCC meetings and provide review report on tripping incidents occurring in the NERPC network.
- 3. Our protection expert will provide the necessary suggestions to protection core committee in every PCC meetings
- 4. PRDC will deploy one engineer in NERPC premises for all working days, who will provide other miscellaneous supports to check healthiness of the server by which total Web Base protection database management tool is running as mentioned below.
 - a. Regular Health checkup for Live Server
 - b. UPS backup activity checking
 - c. Server Temp file/Cache clearing
 - d. Database storage backup of PDMS
 - e. Internet Speed monitoring for Server
- 5. PRDC will provide Hardware support and warranty renewal to maintain the healthiness of the Hardware's which are running behind this Web Base protection database management tool are mentioned below



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<u>List of Hardware Equipment's under AMC - NERPC PMS Data center:</u>

S. No	Hardware Equipment's	Qty	AMC- Repair/Replacement	
1	Barracuda Firewall F180	1	Replacement	
2	Barracuda Firewall WAF	1	Replacement	
3	Dell Switch N3024	2	Faulty parts will be repaired	
4	Dell Servers PowerEdge R530 Web Server	2	Faulty parts will be repaired	
5	Dell Servers PowerEdge R530 Database Server	2	Faulty parts will be repaired	
6	Dell Servers PowerEdge R530 Application Server	2	Faulty parts will be repaired	
7	Dell EMC VMXe3200	1	Faulty parts will be repaired	
8	Tape Device	1	Faulty parts will be repaired	
9	Desktop – Nagios Server	1	Faulty parts will be repaired	
10	Network Hub/Cables/Keyboard /Mouse/Backup Tapes	1	Replacement	

Note: AMC will not be covered for above mentioned Hardware's if any issue caused by physical damage, Fire, Floods and UPS/Electric failure or surge.



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▶ Renewal of AMC for "Protection Database Management Tool"

Responsibilities of M/s NERPC:

- 1. Provide its requirement, specifications and expected outcome for maintenance of protection database and consultancy of protection related matter by PRDC.
- 2. Facilitate in collecting all necessary relay/protection setting details & other information, for maintain the protection database up to date.
- 3. Any other activity as required by both Parties for successful maintenance of protection database system.

Exclusion:

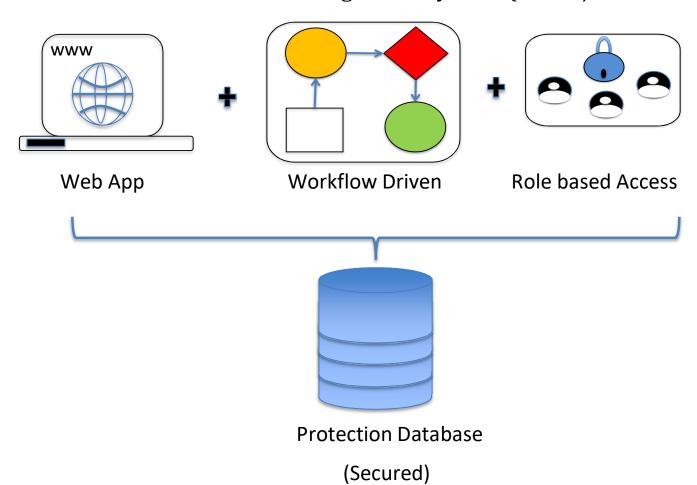
- 1. If the servers and SAN storage having irreparable damage and demands replacement with new hardware is not covered under this scope.
- 2. Enhancement in the configuration of hardware specification is not covered under this scope.
- 3. Any hardware declared as End of support by the OEM, such hardware repair will be subjected to availability of spares in the market.



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Protection Database Management system (PDMS)







Commercial Terms & Conditions

Estimate for Renewal of AMC for "Protection Database Management Tool" from 1st March 2025 to 28th February 2026

Consultancy Charges:-

Sl. No.	Activities	Description	Unit	Total Cost(INR)
1	Onsite Support	One dedicated Resource allocation for Protection suite data updation and other protection related activities at NERPC office.	1 Lakhs Per man Month for 12 months	12,00,000
2	Technical Consultation & Yearly workshop of protection system.	Attending monthly PCC meeting by protection expert and review report on tripping incidents	For one year	10,00,000
3	Hardware AMC Support	Hardware AMC renewal and Support	For one year	11,00,000
4	Software resource support at Bangalore	Software upgrades , trouble shooting , Bug fixing within specified time frame	For one year	18,00,000
5	User Training	Four numbers online 3 day training on Protection Database and PSCT for 15 participants.	For one Year	2,00,000
	•		Grand Total without tax	53,00,000
			GST @ 18%	9,54,000
			Grand Total with tax	62,54,000

^{**} In words- Sixty-Two Lakh Fifty Four Thousand only.

Offer Validity:

Offer will be valid up to 10th July 2024

Payment Terms and Conditions:

Monthly payment apportioned from the annual charges against submission of invoice at the end of a working month.





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NERPC Guidelines for Exempting Quantum of Over-Injection for Providing Primary Response by a Generator

1. Background:

Clauses (1)a of Regulation 12 of the Central Electricity Regulatory Commission (Sharing of Inter-State Transmission Charges and Losses) (First Amendment) Regulations, 2023 mandates RPC for issuing of necessary guidelines for furnishing the data by the generating stations regarding their primary response.

Quote

Provided further that transmission deviation charges shall not be levied for the quantum of over-injection for providing primary response by a generating station, subject to verification of such over-injection by concerned RPC:

Provided also that each RPC shall issue necessary guidelines for furnishing the data by the generating stations regarding their primary response.

Unquote

➤ Regulation 30 (8) of CERC IEGC Regulation 2023 states

Quote

The primary response of the generating units shall be verified by the Load Despatch Centres (LDCs) during grid events. The concerned generating station shall furnish the requisite data to the LDCs within two days of notification of reportable event by the NLDC.

Unquote

2. Applicability:

The guidelines shall be applicable to all regional generators of NER.

3. Guidelines:

The following guidelines shall be followed by the respective entities

- a. The generator shall submit the claim for RTDA exemption by 5th of the month for the previous month to NERLDC & NERPC. Provided that in case of no data/claim is received by the 5th of the month, it shall be treated as no claim for the previous month.
- b. The following data will be furnished by generator:
 - Date & Start Time & End Time of the primary response event
 - ii. Frequency profile (clearly indicating triggering of Primary Response) at Generator Terminal with smallest scan rate (say, 500 msec intervals) available with generator one minute prior to Start Time and one minute beyond End Time
 - iii. Generation profile at Generator Terminal of all the units with smallest scan rate available with generator one minute prior to Start Time and one minute beyond End Time
 - iv. Primary Response Input to Governor of Generator for all the units with smallest scan rate available with generator for the above period.
 - v. Energy claim for RTDA exemption for the 15-minute Block due to primary response along-with computations. The claim at Generator Terminal of all the units would be translated to Ex-bus by the Generator by using the normative/declared Aux Con to NERLDC.
 - vi. SCADA data viz Time, Frequency, and actual MW at Generator Terminal. The SCADA data shall be submitted for 15 minutes duration covering 5 minutes before the Start Time, Actual minutes of Primary Response (5 minutes) and 5 minutes beyond End Time.

Note: The time between start and end frequency for primary response triggering shall not exceed 15 seconds for the purpose of computing the response.

- c. NERLDC shall check the frequency pattern from the nearest PMU and confirm the time of the event, frequency dip, and rate of change of frequency. NERLDC shall check the FGMO/RGMO status as per SCADA & confirm the status. NERLDC would verify the claim keeping in view all the inputs received from Generator. NERLDC would recommend the energy which can be exempted along-with reasons for deduction in claim, if any by 15th of the month.
- d. NERPC & NERLDC shall consider the effect of primary response in RTDA only if the following is satisfied. Let us consider the 't' as the time block in which the primary response claim is made by the generator.
 - i. Generator has submitted the claim with full details as envisaged on time.
 - ii. NERLDC has confirmed the primary response event and the dip in frequency is more than 0.03Hz.
 - iii. FGMO is in enabled condition as per NERLDC SCADA data& confirmed by NERLDC.
- e. The energy claim by the generator due to the primary response shall be limited to 5 %/ 10 % of MCR (Ex-bus), as applicable, for the purpose of RTDA as area under the curve approximated by the formula below:

[0.5 * (5/10)] * [Total MCR(Ex-bus) * Change in frequency * 100]/ (Drop * 50)

f. NERPC would consider the NERLDC recommended energy for RTDA exemption.

4. Power to Relax:

The NERPC may, for reasons to be recorded in writing, relax any of the provisions of these Guideline on its own motion or on an application made before it by an interested member of NERPC.