



सत्यमेव जयते



भारत सरकार / Government of India

विद्युत मंत्रालय / Ministry of Power

पूर्वी क्षेत्रीय विद्युत समिति / Eastern Regional Power Committee

सं./No. ERPC/COMM/BETA/2025-26/2372

दिनांक /Date: 03.03.2026

To: As per list enclosed / सेवा में: (संलग्न सूची के अनुसार)

Sub.: Average Monthly Frequency Response Performance (Beta 'β') of NTPC Barauni Stage-II Generating Station for the months from April 2024 to January 2026.

विषय: अप्रैल 2024 से जनवरी 2026 तक के महीनों के लिए एनटीपीसी बरौनी स्टेज-II जनरेटिंग स्टेशन का औसत मासिक आवृत्ति प्रतिक्रिया प्रदर्शन (बीटा 'β')।

Ref: 1) BSPTCL Letter No. 761 dated 14.11.2025, Letter No. 30 dated 16.01.2026, Letter No. 70 dated 09.02.2026.
2) CERC Procedure vide File No. L-1/268/2022/CERC dated 5th November 2024.

Sir/ महोदय,

Please find enclosed the Average Monthly Frequency Response Performance (Beta 'β') of NTPC Barauni Stage-II Generating Station for the months from April 2024 to January 2026. The data for computation of Beta 'β' has been furnished by SLDC Bihar vide Letter dated 16.01.2026 and 09.02.2026. Computation of Average Monthly Frequency Response Performance, Beta 'β', effective from 1st April 2024, has been done as per the procedure/methodology prepared by NLDC which was duly approved by CERC vide File No. L-1/268/2022/CERC dated 5th November 2024. This is as per BSPTCL Letter No. 761 dated 14.11.2025 wherein it was decided to follow the CERC approved procedure until the methodology for computation of FRP and Beta factor is notified by Hon'ble BERC.

कृपया अप्रैल 2024 से जनवरी 2026 तक के महीनों के लिए एनटीपीसी बरौनी स्टेज-II जनरेटिंग स्टेशन का औसत मासिक आवृत्ति प्रतिक्रिया प्रदर्शन (बीटा 'β') संलग्न देखें। बीटा 'β' की गणना के लिए डेटा एसएलडीसी बिहार द्वारा दिनांक 16.01.2026 और 09.02.2026 के पत्र के माध्यम से प्रस्तुत किया गया है। 1 अप्रैल 2024 से प्रभावी औसत मासिक आवृत्ति प्रतिक्रिया प्रदर्शन, बीटा 'β' की गणना, एनएलडीसी द्वारा तैयार प्रक्रिया/पद्धति के अनुसार की गई है, जिसे सीईआरसी द्वारा फ़ाइल संख्या एल-1/268/2022/सीईआरसी दिनांक 5 नवंबर 2024 के माध्यम से विधिवत अनुमोदित किया गया था। यह बीएसपीटीसीएल पत्र संख्या 761 दिनांक 14.11.2025 के अनुसार है, जिसमें यह निर्णय लिया गया था कि एफआरपी और बीटा कारक की गणना के लिए पद्धति माननीय बीईआरसी द्वारा अधिसूचित होने तक सीईआरसी द्वारा अनुमोदित प्रक्रिया का पालन किया जाए।

Constituents are requested to intimate any discrepancy / error within 60 days from the date of issue of this Statement. In case of any discrepancy / error, the Statement would be revised based on re-examination, final decision and confirmation.

वोटर्स से रिक्वेस्ट है कि इस स्टेटमेंट के जारी होने की तारीख से 60 दिनों के अंदर किसी भी अंतर/गलती के बारे में बताएं। किसी भी अंतर/गलती के मामले में, स्टेटमेंट को दोबारा जांच, आखिरी फैसले और कन्फर्मेशन के आधार पर बदला जाएगा।

This issues with the approval of Member Secretary/ यह सदस्य सचिव की मंजूरी से जारी किया गया है।

Encl.: As above/ संलग्न: जैसा ऊपर बताया गया है।

Yours faithfully/भवदीय

(P.K. De/ पी.के. दे)

SE, Commercial/ अधीक्षण अभियंता (वाणिज्यिक)

DISTRIBUTION LIST

- 1) Chief Engineer, SLDC Bihar, Vidyut Bhawan, Bailey Road, Patna – 800021.
- 2) Chief Engineer (Commercial), South Bihar Power Development Corporation Limited.
- 3) Chief Engineer (Commercial), North Bihar Power Development Corporation Limited.
- 4) Chief Engineer, PMC, BSPHCL.
- 5) Chief Engineer, STU, BSPTCL.
- 6) General Manager (Commercial), NTPC Ltd., ER-I, Patna.

Average Monthly Frequency Response Performance (Beta 'β') for NTPC Barauni stage-2 generating station

Average Monthly Frequency Response Performance for the FY 24-25

Station	Apr-24	May-24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25
Barauni Stage-II	0.35	0.67	0.17	0.00	1.00	0.17	1.00	0.00	0.00	1.00	1.00	1.00

Average Monthly Frequency Response Performance for the FY 25-26

Station	Apr-25	May-25	Jun-25	Jul-25	Aug-25	Sep-25	Oct-25	Nov-25	Dec-25	Jan-26		
Barauni Stage-II	0.00	1.00	1.00	0.63	0.00	0.52	1.00	0.00	0.00	0.71		



Bihar State Power Transmission Company Ltd., Patna
A subsidiary company of Bihar State Power (Holding) Company Ltd., Patna
CIN – U74110BR2012SGC018889
[SAVE ENERGY FOR BENEFIT OF SELF AND NATION]
Head Office, Vidyut Bhawan, Bailey Road, Patna – 800021,

Letter No.761...../
SLDC/FRO,FRP & Beta/75/2024

Dated...14/11/2025.../

From,

Chief Engineer (System Operation)
BSPTCL

To,

1. Chief Engineer (Commercial),SBPDCL
2. Chief Engineer (Commercial),NBPDC
3. Chief Engineer (PMC), BSPHCL
4. Chief Engineer (STU), BSPTCL
5. DGM(Comm.),NTPC,ER-1,Patna

Sub: Assessment of Frequency Response Obligation (FRO) for NTPC Barauni stage-2 generating station

- Ref: 1) Minutes of the meeting held with all stakeholders dated 07.11.2025
2) Minutes of 53rd Fold meeting
3) Minutes of 48th FOLD meeting
4) NLDC Grid-India letter no. NLDC/SO/FRO/2024-25 dated 21.03.2024.
5) NLDC Grid-India letter no. NLDC/SO/FRO/2025-26 dated 13.03.2025.
6) CERC order dated 23.10.2025 for NLDC Methodology for computation of Average Monthly Frequency Response Performance, Beta 'β'.

Sir,

With respect to the above subject, it is to state that Hon'ble CERC vide order dated 23.10.2025 had approved the methodology prepared by NLDC for computation of Average Monthly Frequency Response Performance, Beta 'β' for generating stations in compliance with Regulation 62 Clause 5 and Regulation 65 Clause 4 of CERC (Terms & Conditions of Tariff) Regulations, 2024. In this methodology direction is also given for assessment of FRO and Beta factor of generating stations, whose tariff is determined by CERC and are falling under the jurisdiction of SLDCs in clause 4.4(b) as follows:

Clause 4.4(b): "FRO of generating stations, whose tariff is determined by CERC and are falling under the jurisdiction of SLDCs (in accordance with the control area jurisdiction as per Regulation 43 of CERC (IEGC) Regulations, 2023), as assessed by concerned SLDC shall be considered for computation of Beta by the SLDC.

Provided that till the methodology for Computation of Primary Frequency Response Obligation and Performance in respect of intra-State entities is notified by the respective State Commission, the FRO of generating stations, whose tariff is determined by CERC and are falling under the jurisdiction of SLDCs (in accordance with the control area jurisdiction as per Regulation 43 of CERC (IEGC) Regulations, 2023) shall be assessed by concerned SLDC in line with this methodology, for computation of Beta."

In compliance with the above clause SLDC shall assess FRO of NTPC Barauni stage-2 generating station for computation of Beta, 'β'.

Also, in the 53rd FOLD Meeting dated 09.09.2025, Fold suggested that
"It was agreed to consider technical capabilities of generating stations in line with IEGC provision (i.e. primary response requirement up to 5% of MCR) while apportioning FRO to intra-state generating stations."

Bv

Also, as per minutes of the meeting held with all stakeholders viz. PMC, NBPDC, SBPDCL & NTPC Barauni dated 07.11.2025, it is concluded that

"In compliance with the above suggestion of FOLD and as per applicable regulations, SLDC has decided that the Frequency Response Obligation (FRO) shall be assessed by following method-1 with capping of 5% of MCR and Beta factor shall be computed accordingly w.e.f. 01.04.2024 as per CERC order dated 05.11.2024 until the methodology for computation of FRO and beta factor is notified by the Hon'ble BEREC. It has also been decided that NTPC shall file a petition before Hon'ble BEREC for notification of the methodology for computation of FRO and beta factor."

Therefore, In compliance with the above, SLDC, in consultation with all the stakeholders, has assessed Frequency Response Obligation (FRO) for NTPC Barauni stage-2 generating station by using below formula (method-1) with capping of 5% of MCR as follows:

$$\text{FRO} = (\text{Average Generation of individual generating station} / (\text{Sum of Avg. generation of all considered generating stations})) \times \text{FRO allotted to state control area.}$$

For FY 2024-25, NLDC vide their letter no. NLDC/SO/FRO/2024-25 dated 21.03.2024 has assessed FRO for Bihar state control area as:

FRO (Solar Hours)=323 MW/Hz and FRO(Non solar Hours)=208 MW/Hz

Therefore, as NTPC Barauni stage-2 was the only thermal generating station in FY 2024-25, hence FRO calculated by above formula will be equal to FRO of Bihar state control area. However, there will be a capping of 5% of MCR as per the recommendation of FOLD, i.e. 5% of 500 MW for Barauni stage-2, which will come 25 MW/Hz.

Therefore, FRO assessed for NTPC Barauni stage-2 for FY 2024-25 will be as follows:

FRO (Solar Hours)=25 MW/Hz and FRO(Non solar Hours)=25 MW/Hz

Also, for FY 2025-26, NLDC vide their letter no. NLDC/SO/FRO/2025-26 dated 13.03.2025 has assessed FRO for Bihar state control area as:

FRO (Solar Hours) =351 MW/Hz and FRO (Non solar Hours)=225 MW/Hz

Therefore, FRO assessed for NTPC Barauni stage-2 for FY 2025-26 will be as follows:

FRO (Solar Hours)=25 MW/Hz and FRO(Non solar Hours)=25 MW/Hz, as for FY 2025-26 also, NTPC Barauni stage-2 generating station has only requested for FRO assessment.

This FRO for NTPC Barauni shall be used for computation of Beta factor till the methodology for Computation of Primary Frequency Response Obligation and Performance in respect of intra-State entities is notified by the Hon'ble BEREC.

This is for kind information and further needful.

Encl: as above

Yours faithfully


Sd/-

(A. K. Chaudhary)
Chief Engineer (SO)

Dated.....14/11/2025

Memo No.....761.....

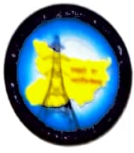
Copy forwarded to GM(Operation), Grid Controller of India(GRID-INDIA)/GM(O&M), NTPC Ltd., Barauni for kind information and needful action.


(A. K. Chaudhary)
Chief Engineer (SO)









Letter No. 30 /
SLDC/FRO.FRP & Beta/75/2024

Dated 16-01-2026.

From,

Amita Nand
Chief Engineer (SLDC)
BSPTCL

To,

✓ Member Secretary, ERPC, Kolkata

Sub: Assessment of Frequency Response Obligation (FRO) for NTPC Barauni stage-2 generating station

- Ref: 1) This office letter no 761 dated 14.11.2025
2) Minutes of the meeting held with all stakeholders dated 07.11.2025
3) Minutes of 53rd Fold meeting
4) Minutes of 48th FOLD meeting
5) NLDC Grid-India letter no. NLDC/SO/FRO/2024-25 dated 21.03.2024.
6) NLDC Grid-India letter no. NLDC/SO/FRO/2025-26 dated 13.03.2025.
7) CERC order dated 23.10.2025 for NLDC Methodology for computation of Average Monthly Frequency Response Performance, Beta 'β'.

Sir,

With reference to above, it is to state that **Average Monthly Frequency Response Performance, Beta 'β'** calculated from Settlement module of SAMAST software for NTPC Barauni Stage-2 Generating station from April 2024 to December 2025 as per **CERC approved NLDC methodology for computation of Average Monthly Frequency Response Performance, Beta 'β' dated 23 October, 2024** in compliance with Regulation 62 Clause 5 and Regulation 65 Clause 4 of CERC (Terms and Conditions of Tariff) Regulations, 2024 are as follows:

SI. NO.	Month	Beta 'β'	SI. NO.	Month	Beta 'β'
1	April_2024	0.35	12	March_2025	1.00
2	May_2024	0.67	13	April_2025	0.00
3	June_2024	0.17	14	May_2025	1.00
4	July_2024	0.00	15	June_2025	1.00
5	August_2024	1.00	16	July_2025	0.63
6	September_2024	0.17	17	August_2025	0.00
7	October_2024	1.00	18	September_2025	0.52
8	November_2024	0.00	19	October_2025	1.00
9	December_2024	0.00	20	November_2025	0.00
10	January_2025	1.00	21	December_2025	0.00
11	February_2025	1.00			

As per the clause 4.9 of CERC approved NLDC Methodology for computation of Average Monthly FRP, Beta 'β' dated 23.10.2024, we are hereby submitting Average Monthly Frequency Response Performance, Beta 'β' computed for April 2024 to December 2025 to ERPC along with all relevant supporting documents for the certification and issuance of Beta 'β' by the ERPC.

This is for kind information and further needful.

Encl: as above

Per:

Yours faithfully)

A. Nand
16/01/2026

(Amita Nand)

Chief Engineer (SLDC)



Bihar State Power Transmission Company Ltd., Patna
A subsidiary company of Bihar State Power (Holding) Company Ltd., Patna
CIN - U74110BR2012SGC018889
[SAVE ENERGY FOR BENEFIT OF SELF AND NATION]
Head Office, Vidyut Bhawan, Bailey Road, Patna - 800021,

Letter No.70...../
SLDC/FRO,FRP & Beta/75/2024

Dated.....09-02-2026.....

From,

Amita Nand
Chief Engineer (SLDC)
BSPTCL

To,

✓ **Member Secretary, ERPC, Kolkata**

Sub: Regarding submission of average monthly frequency response performance, Beta 'β' computed for Jan_26 for NTPC Barauni stage-2 generating station

Ref:

- 1) This office letter no 761 dated 14.11.2025.
- 2) Minutes of the meeting held with all stakeholders dated 07.11.2025.
- 3) Minutes of 53rd FOLD meeting.
- 4) Minutes of 48th FOLD meeting.
- 5) NLDC Grid-India letter no. NLDC/SO/FRO/2024-25 dated 21.03.2024.
- 6) NLDC Grid-India letter no. NLDC/SO/FRO/2025-26 dated 13.03.2025.
- 7) CERC order dated 23.10.2025 for NLDC Methodology for computation of Average Monthly Frequency Response Performance, Beta 'β'.

Sir,

With reference to above, it is to state that **Average Monthly Frequency Response Performance, Beta 'β'** calculated from Settlement module of SAMAST software for NTPC Barauni Stage-2 Generating station for Jan_26 as per **CERC approved NLDC methodology for computation of Average Monthly Frequency Response Performance, Beta 'β' dated 23 October, 2024** in compliance with Regulation 62 Clause 5 and Regulation 65 Clause 4 of CERC (Terms and Conditions of Tariff) Regulations, 2024 is as follows:

Month	Beta 'β'
January_2026	0.71

Therefore, as per the clause 4.9 of CERC approved NLDC Methodology for computation of Average Monthly FRP, Beta 'β' dated 23.10.2024, we are hereby submitting Average Monthly Frequency Response Performance, Beta 'β' computed for January 2026 along with all relevant supporting documents for the certification and issuance of Beta 'β' by the ERPC. This is for kind information and further needful.

Encl: as above

Yours faithfully

A.Nand
09/02/2026

(Amita Nand)
Chief Engineer (SLDC)