



भारत सरकार
Government of India
विद्युत मंत्रालय
Ministry of Power
केन्द्रीय विद्युत प्राधिकरण
Central Electricity Authority
तापीय परियोजना नवीनीकरण एवं आधुनिकीकरण प्रभाग
Thermal Project Renovation & Modernization Division

No.2/4/FLEX/TPRM/CEA/2025/1274-1305

Dated: 20.11.2025

**Sub: CEA (Flexible Operation of Coal Based Thermal Power Generating Units)
Regulation. 2023 -reg.**

CEA has issued a gazette notification dated January 30, 2023 regarding flexible operation of coal fired generating units. As per CEA gazette notification extraordinary, part III, section 4, no. 61 (CG-DL-E-31012023-243299), the coal based power generating units shall have flexible operation capability with minimum power level of 55% along with ramp rate of 2% between 55%-70% and ramp rate of 3% above 70% within one year of notification of the above mentioned regulations i.e. by Jan 2024. Further, it mandates that the generating units which are not capable of achieving a minimum power level of 40%, shall achieve the same as per phasing plan (Attached as Annexure).

It may be noted that CEA's flexible operation regulations were notified after successful pilot test/study conducted across the country in association with international partner and BHEL.

In this regard, it is pertinent to mention that 91 Units of total installed Capacity 51080 MW in aggregate of various thermal power plants have been notified under the Phase I (July 2024-June 2026) for operation at 40% MTL. These units are required to carry out the necessary retrofitting/modifications as recommended by the respective OEMs so as to be fully prepared for sustained operation at 40% MTL by June, 2026, as mandated under the provisions of the aforesaid Regulations.

It may also be noted that successful and sustained operation at 40% MTL with Indian coal has been demonstrated by other generating utilities (Under Pilot Phase) such as West Bengal Power Development Corporation Limited (WBPDCL) at Sagardighi Unit-8 and Damodar Valley Corporation (DVC) at Mejia Unit-8, following suitable retrofits as advised by the OEMs.

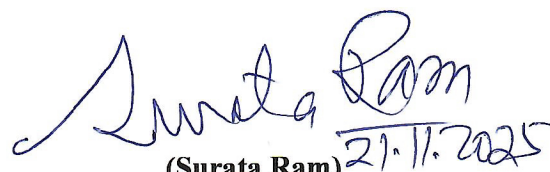
Further, in order to compensate the losses on account of flexible operation, CERC has already incorporated most of the recommendations of CEA's compensation methodology such as for additional Capex , oil consumption, additional auxiliary power consumption and heat rate degradation.

Therefore, all generating utilities are requested to complete the retrofit , control system tuning ,trial runs etc of all units under phase I by June ,2026 in consultation with OEM positively. It is also requested to furnish the progress and updates (as per attached format) of **First Phase units** by the end of November 2025 and thereafter every month.

This may be treated as **MOST URGENT**.

Regards

Encl : As above


(Surata Ram) 21.11.2025
Chief Engineer, TPRM

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Copy to:

1. Chairperson , CEA
2. Additional Secretary (Thermal) , MoP
3. PCE-II , CEA
4. Member Secretary (WRPC/ERPC/SRPC/NRPC/NERPC)

FORMAT

| S. No | Details | Unit 1 | Unit2 | Unit3 | ----- |
|-------|--|--------|-------|-------|-------|
| 1 | Name of Utility | | | | |
| 2 | Plant Name and Address | | | | |
| 3 | Capacity, MW | | | | |
| 4 | Date of Commissioning | | | | |
| 5 | Type of Unit: Supercritical/Subcritical/.... | | | | |
| 6 | Net Heat rate: Design/Actual | | | | |
| 7 | Coal Quality (i) GCV (ii) Volatile matter (iii) Ash Content | | | | |
| 8 | Maximum Generation (last 2 years) MW | | | | |
| 9 | Minimum Generation (last 2 years) MW | | | | |
| 10 | Maximum Ramp Rate Up (last 2 years) | | | | |
| 11 | Maximum Ramp Rate Down (last 2 years) | | | | |
| 12 | Whether 40% Minimum load Achieved (YES/NO) (i) If YES, specify the duration and time (ii) If NO, specify the reason for the same (iii) Whether low load test conducted at 40% (YES/NO) (a) If YES, measures identified/implemented for achieving the same. (b) If No, any action taken in this regard | | | | |
| 13 | Any other details | | | | |