



सत्यमेव जयते

भारत सरकार  
GOVERNMENT OF INDIA

परमाणु ऊर्जा नियामक परिषद

ATOMIC ENERGY REGULATORY BOARD



अध्यक्ष  
CHAIRMAN



No. CH/AERB/KAPP-3&4/2024/01186

August 18, 2024

**Permission for raising Reactor Power up to 100%FP of KAPP-4  
for completing Phase C-3 Commissioning**

**Ref.:** NPCIL Request to raise KAPP-4 Reactor power up to 100% FP; KAPP-3&4/SD/2024/127 dated July 26, 2024

<b>Consent No.</b>	KAPP-4/CM/PH-C3/0/18082024
<b>Stage</b>	Phase C-3 Commissioning of KAPP-4
<b>Applicant</b>	Shri Yash Lala Station Director, KAPP-3&4
<b>Brief description of Nuclear Power Project</b>	<b>Name:</b> Kakrapar Atomic Power Project Unit 3&4 <b>Type:</b> 700 MWe Pressurized Heavy Water Reactor based Nuclear Power Plant <b>Location:</b> Anumala, Dist. Surat, Gujarat, Pin-394651 <b>Present Status:</b> KAPP-3, lead unit of PHWR-700 design, is currently under Phase-C commissioning and reached the power level of up to 97.5%FP, operating under the scope of Technical Specification for Operation. KAPP-4, is currently under Phase-C commissioning and reached the power level of up to 90%FP, and operating under the scope of Technical Specification for Operation.
<b>Basis of issuing the Permission</b>	AERB regulatory requirements as per the AERB Codes and Guides, mainly AERB/SC/G (Regulation of Nuclear & Radiation Facilities), AERB/SG/O-4 (Commissioning of PHWR based NPPs) and AERB/NPP&RR/SG/G-1 (Consenting Process for



नियामकभवन, अणुशक्तिनगर, मुंबई - 400 094

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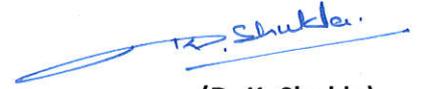
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**Atomic Energy Regulatory Board**

	NPPs and Research Reactors). Also satisfactory compliance to the Safety Review Plan for Commissioning of KAPP-3&4.
<b>Regulatory Review</b>	KAPP-4 operational data at 90%FP and associated submissions were reviewed by PHWR Projects Section, NPSD Review groups and Working Groups. Further review was carried out by the Project Design Safety Committee for PHWRs (PDSC-PHWR) towards raising reactor power beyond 90% FP.  The proposed activity of Phase-C commissioning of KAPP-4 can be carried out without undue risk to the workers, public and the environment.
<b>Responsibility of Safety</b>	The prime responsibility for safety of the facility or activity lies with the Consentee. It is the responsibility of the Consentee to comply with safety requirements as specified in the Regulations.
<b>Other Statutory requirements</b>	Consentee shall ensure that all other necessary Statutory Clearances are obtained and are valid for the present stage of the Consent, i.e. Phase-C Commissioning.
<b>AERB Stipulations and Conditions</b>	Refer Annexure-1

Based on the satisfactory Safety reviews as brought out above, Permission is hereby issued to raise the reactor power of KAPP-4 up to 100%FP for completing the Phase-C commissioning activities, subject to satisfactory compliance to the Stipulations and Conditions, as brought out in Annexure-1. The Permission will be subject to re-review for any non-compliance to the Stipulations and Conditions.

This Permission is valid for the period of validity of Phase-C commissioning of KAPP-4 (i.e. December 31, 2024). The activity as per AERB/NPP&RR/SG/G-1 shall be completed within the validity period.

Encl.: Annexure-1

  
(D. K. Shukla)

**Chairman & Managing Director**  
**Nuclear Power Corporation of India Limited**  
**Nabhikiya Urja Bhavan (NUB)**  
**Anushakti Nagar, Mumbai, 400 094**

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**Copy to:**

**AERB**

Chairman  
Executive Director  
Head, NPSD  
Head, OPSD  
Head, DRI  
Head, NSAD  
Head, DRPE  
Head, PHWR-PS

**NPCIL**

Director (T)  
Director (O)  
Director (P)

**AERB Committees**

Chairman & Member Secretaries, ACPSR-NPP  
Chairman & Member Secretaries, PDSC-PHWR  
Chairman & Member Secretary, CRSA  
Chairman & Member Secretaries, SCRP

**Kakrapar Site**

Site Director  
Station Director, KAPP-3&4  
Chief Superintendent, KAPP-3&4

**AERB STIPULATIONS AND CONDITIONS DURING  
PHASE C-3 COMMISSIONING OF KAPP-4**

- S.1. After attaining stable operation of the Reactor at 100% FP, system performance assessment, radiological data collection and necessary tests shall be carried out, and the results should be submitted for review.
- S.2. All applicable recommendations applicable for the current stage given by PDSC-PHWR, ACPSR-NPP and AERB shall be strictly adhered to.
- S.3. All stipulations of Phase-C commissioning permission of KAPP-4 shall be strictly adhered to.
- S.4. All the Industrial & Fire Safety Requirements shall be strictly complied.
- S.5. This permission shall be suspended or cancelled, if any declaration made or information given in the application is found to be false or if any undertaking given in such application is not carried out.

