

DETAILS OF WORKS / CONSULTANCY / PURCHASE CONTRACTS AWARDED ON NOMINATION BASIS
1ST QUARTER OF 2026 - 27 (APRIL 2026 – JUNE 2026)

DETAILS OF PURCHASE CONTRACTS

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
SR. NO	Name of Work/ Description of Item	Tender/ Quotation No. & Date	Name of Agency	P.O. No. & DATE	Purchase Order Value (Rs. in Lakhs)	Contract Period	Reasons for Nomination	Approving Authority	UNIT
1	Supply of Calandria joint rolled tube (CTRJ) area refurbishment and inspection tools required for EMCCR of TAPS-3&4.	GeM Bid no. GEM/2025/B/6892534 dtd.08-12-2025	M/s. Larsen and Tourbro Limited	GEMC-511687723247398 dtd.08-04-2026	4968	27 Months	As mentioned in eNote/NPCIL/2025/24541 Background of contract 540 MWe Pressurised Heavy Water Reactor (PHWR) unit of TAPP-4 and TAPS-3 were made commercially operational in Sep-2005 and Aug-2006 respectively. After more than 20 years of successful operation, En-mass Coolant Channel replacement (EMCCR) and En-mass Feeder replacement (EMFR) for these reactors is planned from June-27 onwards. Urgency involved The expected time duration required for manufacturing of first prototype system in 12-18 months and further 6 months for balance two numbers. En-mass Coolant Channel replacement (EMCCR) for TAPP-3&4 reactors is planned from June-27 onwards. During EMCCR & EMFR, major components viz. Coolant Tubes, Calandria Tubes (approx. 80 Nos. of central core locations), End Fittings (EF) and associated components, End Fitting Bellows, Shielding Plug, Sealing Plug, fuel locators, Feeder Pipes & Fittings, Ventures & Orifices and High pressure coupling components are planned to be replaced. Justification for adopting nomination mode (Why not Public Tender) In 540 MWe PHWR, for the first time, few Calandria Tubes (in the central core region) will also need to be replaced. To ensure proper groove area at Calandria Tube rolled joint (CTRJ) for re-rolling of replaced Calandria Tubes, inspection and refurbishment of the respective groove area needs to be carried out. To facilitate the above work, it is required to design and develop inspection and refurbishment tool/ technology, which will be first-of-a-kind (FOAK) activity in India. 'To explore the capability of existing vendors, who can perform this development work, a sub-committee was constituted for inspection and refurbishment of Calandria Tubes for rolled joint for 540 MWe PHWR vide office order No. NPCIL/VSB/AD(M&OM) /M/24 dated 11.03.2024, consisting of engineers from Engineering Directorate, Procurement Directorate, TDG, QA, TAPS-3&4 site, Operation Directorate and BARC. Based on the nature of work, sub-committee contacted several identified manufacturers, who have past experience of manufacturing of similar critical jobs for NPCIL/other DAE units or who are specialists in SPM manufacturing or tool designing. All the manufacturers/specialists were invited for technical discussion to make them understand the job requirements and also to assess the technical capability of the manufacturers/specialists for the completion of the CTRJ area refurbishment and inspection job. Sub-committee provided the required technical inputs to these vendors to understand the scope of work. The list of manufacturers/specialists is as follows: 1. M/s. L&T, Hazira 2. M/s. Godrej & Boyce, Mumbai 3. M/s. WIL, Walchandnagar 4. M/s. MTAR Technologies, Hyderabad 5. M/s. Hardcoat, Mumbai 6. M/s. Sheetal Engineers, Pune 7. M/s. Avasarala Technologies Limited, Bengaluru 8. M/s. Unimech Aerospace, Bengaluru Justification for selection of the specific vendor (including why other vendors were not considered) This development work is having direct impact on TAPS-3&4 EMCCR. Therefore, any failure or delay may affect EMCCR schedule, which may lead to delay in achieving criticality of the units of TAPS-4 and TAPS-3 after EMCCR. Being a FOAK activity, time required for the development of reactor deployable technology cannot be accurately anticipated and chances of time overrun cannot be ruled out.	ED (Proc.)	For NPCIL

							Refurbishment & inspection of CTRJ area will be carried out during EMCCR. To limit the schedule of EMCCR, many activities are planned in parallel. For this, it is required to know tentative procedure of refurbishment including major steps, tools, time required for each step and any special requirement etc. Such inputs are required before hand so that EMCCR plan can be worked out. Dimensions of CTs and inserts may require modification based on dimensions of refurbished CTRJ area. Therefore, the accuracy of refurbishment needs to be high, as it will impact the required dimensions of CTs & inserts. Any mistake during refurbishment of the CTRJ area will cause problem in getting a Helium leak tight joint after the re-rolling of Calandria Tube, and may lead to possible quarantine of the particular channel. In view of the above, engagement of vendor having exhaustive experience of critical machining of CTRJ area and having engineering experience in the development of special tools is essential. Owing to the critical nature of the job, the sub-committee had detailed discussions with the aforementioned vendors. Except M/s L&T, all other vendors intimated about their lack of technical capability and experience, in accepting this first-of-a-kind developmental job. During discussion, M/s. L&T, Hazira briefly explained the technical feasibility of polishing/machining/grinding/measurements (Remote operations) at the CSTS rolling groove area of End Shield. M/s L&T, Hazira provided a Technical-cum-capability note for Refurbishment & Machining of Calandria tube rolled Joint area, explaining about the various aspects to be considered for the completion of job. M/s L&T have responded very positively for this development job based on their technical expertise and past experience under similar constraints in radioactive area. The committee found their approach very methodical and convincing. 'M/s. L&T has vast experience of successfully manufacturing End Shields for various projects of 220 MWe, 540 MWe & 700 MWe PHWRs involving remote welding of tri-junction joint/bi-junction joint and critical machining of CSTS Rolling grooves. In total, they have done this groove machining for more than 4700 Lattice locations of End Shields supplied by them for various projects of 500/700 MWe projects with 100 % accuracy. 'It may be noted that M/s L&T has successfully carried out weld repair of tri-junction weld joint of End Shield of Kaiga-3 using customised remote tooling having access through ID of the Lattice Tube from FM Vault. M/s. L&T has also carried out first-of-a-kind job of development and successful deployment of remote tooling for detection of multiple leakage locations and weld repair of these leakage in KAPS-1 Calandria vault liner, using access from manhole provided in Top Hatch Beams and through additional holes drilled on Top Hatch Beams. They were also involved in various other site activities of similar nature in the radioactive areas of operating stations viz. MAPS-2 and TAPS-4. Based on the above and considering the critical nature of the job with limited expertise, it is suggested to award the contract to M/s. L&T, Hazira on nomination basis. The sub-committee identifies M/s. L&T as a technically competent manufacturer to carry out this first-of-a-kind development job of CTRJ area refurbishment and inspection. Reason and justification for recommending a particular vendor/service provider for nomination contract stating the type of entity to whom the contract is proposed to be awarded along with its relation, if any, with NPCIL including its employee: Detail reason and justification for recommending M/s. L&T for nomination contract are explained above. Further, M/s L&T is a public limited company of repute with vast experience of supplying critical Nuclear Equipment. Except official dealing during various PO's under execution at M/s. L&T, there is no relation of NPCIL with them including their employees. Basis/Justification of Rate Reason-ability Estimate Cost : 4688 Lakh (independent) Quoted Cost - 5857 Lakh Negotiated Price : 4968 (+5.97% over NPCIL estimate price)		
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2	Online Hot spot rectification near Generator Transformer B phase spacers and attending damaged moose conductor of GT-7 B phase in GT yard	Wtihout call of Tender on Nomination basis Offer dated 15-06-2026	M/S Vagira Hotline Power Services Pvt. Ltd	'8998 dtd. 18-06-2026	5.66	03-07-2026	RAPP-7 is operating at 670 MW. On 15 June-2026, during condition monitoring of GT-07 by thermal imaging, high temperature (150) was observed at spacers of B-phase GT-07 moose conductor. On further monitoring it is observed that the temperature is reached to 1700C.on further observation by binocular it has been noticed that one of the conductor of jumper in between the 400 kV line and IPS tube is in degraded condition. Strands of the one conductor have come out. Tightness of the same is also required to be carried out to continue power operation of the Generator. For repairing of the thermal hotspot and damaged strands of one of the conductor, following are the options: i) Option-1: Rectification after de-energizing Generator Transformer-7: During this mode of operation, following are the implications: a)It requires the TG trip and reactor operation in steam dump mode. b)Reactor operation in steam dump mode will take approximate six hours and it requires following •Gradual lowering of reactor power from 95% to 70% FP •TG outage of about Six hours Above activities will lead to loss of power generation and revenue loss. c)Also during the maintenance period, there is a chance of transient which may lead to reactor trip. Reactor trip will lead to further financial loss of about three days. ii)Option-2: Online rectifications: Feasibility of online repairing is explored. Hotline repairing was done by M/S Vagira Hotline Power Service Pvt. Ltd. at RAPS-1&2 (in Feb-2013), KGS-1&2 (May 2023 to May 2025), RAPS-3&4 and RAPS7&8 (July 2025). Copy of purchase order placed by RAPS 3&4 and RAPS7&8 is attached for reference. 'Station does not have expertise to carry out the online defect rectification in EHV (Extra High Voltage) System. M/S Vagira Hotline Power Service Pvt. Ltd. has sufficient experience for online thermal hotspot rectification. Contractor has also worked in NPCIL station and well aware about the importance of work in Nuclear power plant. Being specialized nature of the job and requirement of special tools & tackles, outside sources are explored for such specialized job for on line thermal hotspot rectification in EHV (Extra High Voltage) System. NPCIL has the experiences for successful online hotspot rectification using the services of M/S Vagira Hotline Power Services Pvt. Ltd. There is no other known vendor for such activity. Further, for exploring any other vendor and accessing the capability to execute such jobs, may take more time which may lead the further deterioration in condition and may result in unit outage. Keeping this in view, it is proposed to carry out the defect rectification through M/S Vagira Hotline Power Service Pvt. Ltd. on Nomination basis.	Station Director-RAPS-7&8	Requirement pertains to RAPS-7&8