Standing Advertisement for Expression of Interest

The Central Power Research Institute (CPRI)—an Autonomous Society under the Ministry of Power, Government of India—invites expressions of interest from entrepreneurs and industries for licensing available technologies as per the format provided in Annexure I. A comprehensive list of technologies open for licensing is provided below. CPRI is providing the Technologies to the interested firms at no cost basis.

Submission Details:

Address: Head, R&D Management Division, Central Power Research Institute, Prof. Sir C.V. Raman Road, Post Box No: 8066, Sadashiva Nagar (P.O), Bengaluru, Karnataka, India,

Pincode: 560080 Email: rnd@cpri.in

Evaluation Process:

EOIs will be reviewed periodically by a Committee chaired by the Head of R&D, CPRI. Subsequent communication will be established with firms whose EOIs are shortlisted. CPRI reserves the right to accept or reject any or all EOIs without assigning reasons and may update or modify the content of this call by updating the website.

EOI of Technologies:

List of Granted Patents

S.No	Application Title	Award Year	Patent Appliation number
1	Successive Cooling Method To Reduce Global Warming	2024-08-29	549051 (201741008939)
2	Simulated particle impact Erosion system for Grading Thermal Power Plant tube materials and coatings.	2024-05-29	539831 (201941018786)
3	Scooping Device for Extracting Miniature Samples from Metallic Materials	2024-05-16	538213 (202041010243
4	Methodology For Obtaining Load Flow Solution In Weakly Meshed Electric Power Distribution System	2024-04-17	533455 201741011818
5	Simulation Silt Erossion System For Grading Hydro Power Plant Material And Coatings	2024-03-14	526235 201741042935
6	Temperature and Sag Measurement Sensor Fitted Directly on Live High Tension Powerlines	2024-03-03	521710 201641011300
7	A Process for the Preparation of Graphene Coated CNT Modified Mullitic Hollow Spheres	2024-02-27	516057 1711/CHE/2014
8	An inspection method for characterization of surface breaking inclined crack based on Ultrasonic Time of Flight Diffraction	2024-02-14	510693 (102/KOL/2010)
9	An Energy Efficiency Optimizer System for Induced Draft Cooling Towers of Power Plants	2024-01-16	499634 (410/KOL/2014)

10	Novel Polymer Composite Material for EMI Shielding of Electronic Systems/ Circuits	2024-01-09	496460 (201641011481)
11	High Temperature Erossion Test Ring System Resistence Of Metal	2023-12-20	486131 (201841004673)
12	Secondary Air Pre-Heater for heating air to 800-1000 Centigrade in drop tube reactor systems	2023-11-20	470525 364/KOL/2015
13	A novel device for water conservation and use of solar water heaters (SWH) in multi storeyed buildings	2023-10-30	463340 (358/KOL/2015)
14	A Composition of Silicone Rubber (SIR) and Filler Materials for Long Term Performance of High Voltage Insulators	2023-10-18	460425 (2913/CHE/2015)
15	Dielectric mineral oil based nanofluids for transformers.	2023-09-25	454359 (201841034834)
16	Rotating water cooled ash deposition system to determine the deposition characteristics of the ash particles generated in a Drop Tube Reactor (DTR) system	2023-09-25	454227 (366/KOL/2015)
17	Sensor System Replicating and Monitoring Formation of CuxS in High Voltage Power Transformer	2023-09-08	445481 (201641018693)
18	Green Insulating Fluids For Transformer Application: A Non-Edible Vegetable Oil"	2023-08-07	443364 (202141053865 (23.11.2021))
19	An Auto-Operating Device in Solar Water Heater System Applicable for Highly Scaled BoreWell Water	2023-07-07	437812 (355/KOL/2015)
20	A Composition of polydopamine grafted nano alumina based silicone rubber nanocomposite for high voltage insulation	2023-05-03	430971 (202241031333 (01.06.2022))
21	An apparatus and method to monitor inlet and exit Parametric conditions of steam in a thermal heating system to achieve optimal efficiency	2023-03-23	426426 (382/KOL/2012)
22	Intelligent forecaster for composite electric heater load on grid	2023-03-01	423719 (349/KOL/2013)
23	Load flow Models for Generators for Power Sub- Transmission and Distribution	2023-02-23	422964 (351/KOL/2015)
24	A Smart Air Handling Unit (AHU) for Efficient Operation of Centralized Air Conditioning Systems with lower power consumption	2023-01-10	417425 765/KOL/2014
25	Multi-Jet Type High Velocity Silt Erosion Apparatus	2022-12-27	415685 (377/KOL/2012)
26	An apparatus for on-line measuring of operating efficiency of deep well or bore well-motors in-situ	2022-12-14	414572 (383/KOL/2012)
27	A Secondary Air Pre-Heating System Integrated with an Hot Air Distribution System for achieving Laminar flow Conditions while Administering Preheated Secondary Air into a Drop Tube Furnace	2022-11-30	413136 (378/KOL/2012)
28	A Scheme for Switching of Multiple Shunt Reactors for Testing of LV Power Capacitors	2022-09-20	407041 (380/KOL/2012)
29	A Device for Thermo-Mechanical Pre- Stressing of Metal Oxide Surge Arrester	2022-08-11	403435 (31/KOL/2014)

30	An Condenser Device for Cooling Transformer Oil and Converting Heat Energy of Transformer Oil into Electricity	2022-08-10	403340 (1020/KOL/2014)
31	Specially Designed Porcelain Long Road Insulators for Highly Contaminated Environment	2022-06-20	399502 (201641033690)
32	A Robotic Crawler System Operable under LFET To Conduct Automated Boiler Water Wall Tubes Inspection	2022-05-24	397523 (379/KOL/2012)
33	An apparatus and a process for optimizing performance of a heat exchanger system	2022-04-13	394764 (364/KOL/2010)
34	Metal Carbide Coated Electrodes for DC inclined Plane Tracking Test	2022-04-07	394433 (201641011486)
35	A Novel HDPE Nano-Composite using Multiwalled Carbon Nanotubes (MWCNT) And Nano-Silicon Dioxide (SIO2) with balanced Dielectric, Mechanical and Flame Properties for Insulation Applications	2022-02-07	388667 (201641011344)
36	System for controlling Operation of Hybrid Battery Bank in burst power and base power mode	2022-01-10	386321 (201741009033)
37	A constant Pressure Gas Holder System for mixing Explosive Gas-Air Mixtures in Volumetric Ratio at atmospheric pressure	2021-10-27	380308 (1633/CHE/2014)
38	Creation of B-scan Image in Ultrasonic Complex Geometry Time of Flight Diffraction Inspection	2021-10-26	380101 (201641011438)
39	Development Of Online Gas Extraction System For Dissolved Gases In Mineral Oils	2021-10-20	379481 (201741007587)
40	A Method for Synthesizing Ceramic Polymer Composites.	2021-08-05	373913 (1641/CHE/2014)
41	Chamber for Administering Cold Primary and Hot Secondary Air to Drop Tube Reactor Systems	2021-02-11	358369 (368/KOL/2015)
42	Nano-laddered sorbent type material for transformer oil reclamation	2020-11-02	351435 (376/KOL/2012)
43	Ash Micro-Spheres Based Thermal Insulation Refractory	2020-11-01	350996 (568/KOL/2009)
44	Development of Solid Matrix Reagent for De- chlorination of Poly Chlorinated Biphenyls (PCB)	2020-07-29	341325 (201641011282)
45	Nano-filled polymer based high performance novel thermo plastic composite material for dielectric applications	2020-07-29	341300 (365/KOL/2012)
46	A Process for Synthesizing Carbon Nano Tubes (CNT's) Modified Nano – Mullitic Hollow Spheres	2020-05-29	336720 (1713/CHE/2014)
47	Intelligent Air Conditioner Controller	2020-02-29	331767 (626/KOL/2008)
48	An improved water/nitrogen dual cooled probe system for collecting burnt sample particles at various elevations inside drop tube furnace	2020-01-29	330014 (381/KOL/2012)
49	Pulverised coal ash based granules through low energy route for filler applications	2019-12-29	328643 (1466/KOL/2013)

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50	Fly ash Cenosphere composites for sanitation applications	2019-11-29	324627 (707/KOL/2013)
51	Microwave sintered coal ash based granules for filler applications	2019-10-25	323686 (1213/KOL/2013)
52	A novel method for synthesis of dawsonite from fly ash	2019-07-29	315960 (706/KOL/2013)
53	A System for Measuring Thermal Energy Gained by a Water Storage Tank	2017-09-14	287873 (1437/CHE/2006)
54	A Curing Agent for Epoxy Resin	2017-05-01	283144 (1895/CHE/2006)
55	Time Synchronizing Unit for continuously monitoring Electrical Substations	2012-02-29	251180 (484/CHE/2003)
56	Radio Based Centralized Control System For Electrical Loads	2011-03-28	247111 (485/CHE/2003)
57	An Apparatus For Flow Simulation For Measurement Of Pulverized Particle Mass Flow	2010-05-25	240681
58	A Flame Retardant Composition for Cable Applications	2009-10-01	234791 (301/CHE/2004)
59	Stabilized Zirconia Plasma Sprayable Powder and Industrial Process for Its Manufacture	2009-10-01	229939 (1284/CHE/2005)
60	An Apparatus and a Method for Optimum Extraction Of Dissolved Gas in Mineral / Synthetic Oil	2009-10-01	236822 (300/CHE/2004)
61	Development Of Digital Techniques For Measurement Of Resistive Leakage Current In Zinc Oxide Arrester	2006-10-01	201476
62	Card Operated Pre-Paid Energy Meter using Novel Card Reading Technique	2006-10-01	198927
63	Condensate Depression Monitor	2006-10-01	198941
64	Flame Retardant Low Smoke Compound Based On PVC For Cable Application	2006-10-01	201478
65	A Digital Device For Measurement Of Resistive Leakage Current Of Zinc Oxide Arresters	2005-10-01	201476
66	Development of Latent Accelerator Based On Metal Chelates for Faster Curing of Epoxy Resin System	2000-10-01	181043
67	Synthesis Of Capacitor Liquid Dielectric From Rapeseed Oil	2000-10-01	182271
68	Zirconia Based Ceramic Spray Powder For Plasma	1999-10-01	181225
69	A Process for the manufacture of Fly ash based ceramic acid resistant Bricks/Tiles	1999-10-01	
70	A Process for the manufacture of Fly ash based ceramic floor tiles	1999-10-01	
71	A process for the manufacture of Fly ash based ceramic wall tile	1999-10-01	

72	Spherical Electrode AC Digital Field Strength Meter	1999-10-01	181132
73	Hand Held Capacitance Detector	1999-10-01	181110
74	New Aluminium Conductors for Coastal Application	1999-10-01	179042
75	Fluidised Beta Multi-Fuel Updraft Biomass Gasifier	1994-10-01	179425
76	Field Oriented Control of Synchronous Motor for Variable Speed Operation	1994-01-01	172072
77	Lightning Arrester Field Test Kit	1970-01-01	

Name of Technology:

Name of Company:

Name and Designation of Contact Person:

Corresponding Address with Telephone Number and E-mail id:

Website

Address Products/Services handled

Annual Turnover of last three years (enclose audited balance sheets) [Concessions as applicable to start-ups and MSME would be available in deserving cases]

Details of Income Tax registration, GST registration, sales tax registration, service tax registration etc.

PAN number

Available Technical Manpower

Briefly state why you are interested in the technology