



Experience List - CORE Energy Systems Pvt. Ltd.

(NUCLEAR SECTOR - Major Orders)



Sr. No.	Details of the NPP	Package Name	Type	Scope of Work Description	Project executed (Year)	Location & Application
1	Kudankulam Nuclear Power Plants 3 & 4	Compressed Air Plant	EPC Project / Equipment	Complete Design & EPC of Compressed Air Utility Plant for KK 3 & 4 consisting of reciprocating compressors, piping, instrumentation, etc. along with Containment Pressurizing Centrifugal Compressor.	Under Execution	Instrument Air for Conventional Island
2	Kakrapar Atomic Power Plant 3 & 4	Helium Liquid Ring Compressor	EPC Project / Equipment	Critical Helium LRC as a part of LZC system responsible for Reactivity Control of Pressurized Heavy Water Reactors. Design- ASME Section III ND	2016	Reactor Liquid Zone Control System
3	Rajasthan Atomic Power Plant 7 & 8	Helium Liquid Ring Compressor	EPC Project / Equipment	Critical Helium LRC as a part of LZC system responsible for Reactivity Control of Pressurized Heavy Water Reactors. Design- ASME Section III ND	2016	Reactor Liquid Zone Control System
4	Kakrapar Atomic Power Plant 3 & 4	Boiler Feed Pumps	EPC Project / Equipment	A part of the Secondary Coolant Circuit, BFPs and ABFPs are Responsible for feeding Steam Generator with Pressurized deaerated feed water.	2012	Secondary Coolant Circuit
5	Kakrapar Atomic Power Plant 3 & 4	Vapour Compression Chilers	EPC Project / Equipment	VCM Chillers for Chilled Water Utility used for Conventional Island Equipment.	2014	Chilled Water Utility for Conventional Island
6	Rajasthan Atomic Power Plant 7 & 8	Vapour Compression Chilers	EPC Project / Equipment	VCM Chillers for Chilled Water Utility used for Conventional Island Equipment.	2014	Chilled Water Utility for Conventional Island
7	Tarapur Atomic Power Plant 1&2, 3&4 Kakrapar Atomic Power Plant 3 & 4	Material Handling Equipment	EPC Project / Equipment	Various Material Handling Equipment like Chain Pulley Block (upto 20 Tonnes), Electric & Pneumatic Hoists, EOT Crane etc.	2012	Nuclear Island, Conventional Island
8	Kakrapar Atomic Power Plant 3 & 4	Compressed Air Package	EPC Project / Equipment	Compressed Air Package for Nuclear Island instrumentation actuation for normal operation of PHW Reactors	2012	Instrument Air for Nuclear Island
9	Rajasthan Atomic Power Plant 7 & 8	Compressed Air Package	EPC Project / Equipment	Compressed Air Package for Nuclear Island instrumentation actuation for normal operation of PHW Reactors	2012	Instrument Air for Nuclear Island
10	BARC Trombay	Helium Compressor	EPC Project / Equipment	Cryogenic Compression & Liquefaction of Helium for Superconducting Magnets	2006	Specialized Testing Facility
11	Heavy Water Board, Chennai	Compressed Air Package	EPC Project / Equipment	Part of Process Equipment for conversion of Uranyl Nitrate Solution to Uranium Oxide powder	2013	Uranyl Nitrate Converting Plant
12	Directorate of Purchase & Stores	Vertical Turbine Pumps	EPC Project / Equipment	Design, Engineering and Manufacturing of Vertical Turbine Pump Assembly for LP Cooling Water Transfer	2008	BARC Tarapur Chiller System
13	Directorate of Purchase & Stores	Vertical Turbine Pumps	EPC Project / Equipment	Design, Engineering and Manufacturing of Vertical Turbine Pump Assembly for HP Cooling Water Transfer	2008	Heavy Water Board Chiller System
14	Kakrapar Atomic Power Plant 3 & 4	Horizontal Centrifugal Pump Package	EPC Project / Equipment	Centrifugal Pump Skid packages for various nuclear island applications such as condensate transfer, fluidisation, seal water circulation for PCPs & BFPs, etc.	2013	Heavy Water upgrading Plant and Waste Management Plant
15	Kakrapar Atomic Power Plant 3 & 4	ECCS Air Compressor	EPC Project / Equipment	Part of the High Pressure Coolant Injection package of the ECC System for operation under Loss of Coolant Accidents	2015	Emergency Core Cooling System
16	Rajasthan Atomic Power Plant 7 & 8	ECCS Air Compressor	EPC Project / Equipment	Part of the High Pressure Coolant Injection package of the ECC System for operation under Loss of Coolant Accidents	2015	Emergency Core Cooling System
17	BARC (NRB) Tarapur	Compressed Air Plant	EPC Project / Equipment	Compressed Air Utility for spent fuel reprocessing & storage process.	2016	Additional Spent Fuel Storage Facility





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18	Rajasthan Atomic Power Plant 5 & 6	Operation & Maintenance Contract	Services	Skilled Manpower for Fuel Handling System Operation for activities related to Refuelling, Handling of FM vault and FMSA shielding & sealing door, etc. as well as IAEA record documentation.	2018	Fuel Handling System
19	Kudankulam Nuclear Power Plants 3 & 4	Civil Construction Manpower Contract	Services	Skilled Engineers & Technical Manpower for Containment Building Construction & Supervision for activities like foundation building, cement pouring, etc.	2019	Skilled Manpower for Containment Construction
20	Tarapur Atomic Power Plant 3 & 4	Operation & Maintenance Contract	Services	Intensive Technical Maintenance & Safety Supervision for Compressor Plant responsible for Nuclear Island Instrument Air	2010	Technical & Safety Manpower
21	Waste Management Division, BARC Mumbai	Operation & Maintenance Contract	Services	Skilled Manpower for Operation & Maintenance of Radioactive Waste handling process machinery.	2018	Waste Management Facility
22	Kudankulam Nuclear Power Plants 3 to 6	Project Management Services	Services	Project management services including designing, drafting, planning, scheduling and process animation.	2019	Conventional & Nuclear Island
23	Tarapur Atomic Power Plant 3 & 4	Operation & Maintenance Contract	Services	Intensive Technical Maintenance & Safety Supervision for VCM Chillers responsible for Nuclear Island Chilled Water Plant	2007	Technical & Safety Manpower
24	Kakrapar Atomic Power Plant 1 & 2	Operation & Maintenance Contract	Services	Skilled Manpower for Maintenance of Complete Ventilation System including Air Handling Units, HEPA Filtration Units, Dampers, Centrifugal Pump and Ducting	2015	Technical Maintenance Manpower
25	BARC Tarapur	Operation & Maintenance Contract	Services	Skilled Manpower for Operation & Maintenance of Primary Circuit Cooling Water Circulation System	2009	Cryogenic Technology Div.
26	Tarapur Atomic Power Plant 3 & 4	Operation & Maintenance Contract	Services	Intensive Technical Maintenance & Safety Supervision for VCM Chillers responsible for Nuclear Island Chilled Water Plant	2008	Technical & Safety Manpower
27	Kudankulam Nuclear Power Plant 1 & 2	Operation & Maintenance Contract	Services	Skilled Manpower for Operation & Maintenance of Sea Water Cooling System equipment like Mussel Filters, Sea Water Pumps, Pipeline, etc. along with fabrication if required.	2014	Technical Maintenance Manpower
28	Rajasthan Atomic Power Plant 7 & 8	Design & Engineering Service Contract	Services	Design, Engineering, Drafting, Technical Documentation & Project Management for Balance of Turbine Island Package	2012	Balance of Turbine Island
29	Kudankulam Nuclear Power Plants 3 & 4	Civil Construction Manpower Contract	Services	Skilled Engineers & Technical Manpower for Containment Building Construction & Supervision for activities like foundation building, cement pouring, etc.	2016	Skilled Manpower for Containment Construction
30	Tarapur Atomic Power Plant 3 & 4	Operation & Maintenance Contract	Services	Intensive Technical Maintenance & Safety Supervision for Compressor Plant responsible for Nuclear Island Instrument Air	2014	Technical & Safety Manpower

<div>  Experience List - CORE Energy Systems Pvt. Ltd. (INFRASTRUCTURE & OTHER SECTORS - Major Orders)  </div>						
Sr. No.	Infrastructure Organization	Package Name	Type	Scope of Work Description	Project executed (Year)	Location & Application
1	Madhya Pradesh Poorv Kshetra Vidyut Vitaran - Balaghat Dist.	Electrical Distribution Lines	EPC Project / Equipment	Supply, Installation, Testing & commissioning of 5MVA, 33/11KV Substations, 33kV & 11kV Lines (15km & 190KM) , Distribution Transformers, 220km LT Line/Cable, Providing meter connections at Balaghat Districts	Under Execution	Rural Electrical Distribution and Substation
2	Madhya Pradesh Poorv Kshetra Vidyut Vitaran - Damoh Dist.	Electrical Distribution Lines	EPC Project / Equipment	Supply, Installation, Testing & commissioning of 5MVA, 33/11KV Substations, 33kV & 11kV Lines (1km & 11KM) , Distribution Transformers, 87km LT Line/Cables, Providing meter connections at Damoh Districts	2019	Rural Electrical Distribution and Substation
3	Madhya Pradesh Poorv Kshetra Vidyut Vitaran - Katni Dist.	Electrical Distribution Lines	EPC Project / Equipment	Supply, Installation, Testing & commissioning of 5MVA, 33/11KV Substations, 33kV & 11kV Lines (1km & 26KM) , Distribution Transformers, 72km LT Line/Cables, Providing meter connections at Damoh Districts	2019	Rural Electrical Distribution and Substation
4	Prima Hikvision	Compressed Air Network	EPC Project / Equipment	Supporting plant instrument air for manufacturing requirements	2019	Plant Instrument Air
5	Mumbai Metro Depot Line - Ansaldo STS	Compressed Air Network	EPC Project / Equipment	Compressed air system for handling line instruments and critical valve actuations and bleed line for utility purposes	2017	Instrument air and Utility air for Station equipment
6	Delhi Airport Metro Line - Bluestar	TVS Compressed Air System	EPC Project / Equipment	For actuation of Tunnel ventilation dampers supporting the breathing air network of underground metro lines	2013	Instrument air and actuation
7	Delhi Airport Metro - DMRC	TVS Compressed Air System	EPC Project / Equipment	For actuation of Tunnel ventilation dampers supporting the breathing air network of underground metro lines	2013	Instrument air and actuation
8	Mumbai Metro One Private Limited	Compressed Air Package	EPC Project / Equipment	Compressed air system for handling line instruments and critical valve actuations and bleed line for utility purposes	2013	Instrument air and Utility air for Station equipment
9	Kalyan Dombivli Mahanagar Corporation	HVAC System	EPC Project / Equipment	Ventilation and cooling system with rooftop cooling units and ducting network for one of India's largest Drama concert halls Savitribai Phule Natyagruha	2007	Human Comfort and Ventilation



Experience List - CORE Energy Systems Pvt. Ltd.

(OIL & GAS SECTOR - Major Orders)



Sr. No.	Oil & gas Organization	Package Name	Type	Scope of Work Description	Project executed (Year)	Location & Application
1	Bharat Petroleum Corporation Limited	Integrated Facility management	Services	Overseeing Miraj Depot Site Activities, Undertaking site Electrical and Mechanical maintenance, Upkeeping and maintenance of Critical Fire Fighting Equipment	Under Execution	Skilled Manpower for Site operation
2	Bharat Gas Resources Limited	Site Activities Contract	Services	Overseeing and Managing Operation of Critical CNG Compressor Packages at various BGRL Sites	Under Execution	Skilled Manpower for Site operation
3	Bharat Gas Resources Limited	Supervision and Construction and Operation Management	Services	Graduate Engineers for Supervision, Planning and Execution, Quality Assurance, Managing commissioning and operation activities	Under Execution	Technical and Management Manpower
4	Oil and Natural gas Corporation, Hazira	Plant Operation	Services	Operation and maintenance of vital cooling water systems supporting the plant machinery	Under Execution	Skilled Manpower for Plant operation
5	Oil and Natural gas Corporation, Rajahmundry	Manpower Job Contract	Services	Providing skilled manpower for technical services and execution jobs for Rajahmundry Asset	Under Execution	Skilled Manpower for Site operation
6	Oil and Natural gas Corporation, Hazira	Manpower Job Contract	Services	Loading and handling of inflammable liquid hydrocarbons at the Hazira asset	2019	Skilled Manpower for Site operation
7	Bharat Gas Resources Limited	Manpower Job Contract	Services	Bottling of flammable LPG into containers at various sites across India	2019	Skilled Manpower
8	GAIL India Limited	Nitrogen Compressor Package	EPC Project / Equipment	For nitrogen boosting application at GAIL's Hydrocarbon (C2, C3) Recovery plant	2020	Nitrogen boosting
9	Deepak Fertilizers & Petrochemicals Corporation Limited, Dahej	Compressed Air Package	EPC Project / Equipment	For supplying compressed air to the chemical process requirement	2019	Fertilizer and Chemical production
10	Oil and Natural gas Corporation, Madanam	Compressed Air Package	EPC Project / Equipment	Compressed air system for catering to the plant instrument air requirements	2019	Instrument Air
11	Oil and Natural gas Corporation, Bokaro	Compressed Air Package	EPC Project / Equipment	Compressed air system for catering to the plant instrument air requirements	2019	Instrument Air
12	Reliance Jamnagar Refinery	Pneumatic Winching & Hoisting Systems	EPC Project / Equipment	Heavy duty Pneumatic winches and hoists for material handling to be used in highly explosive environment of refinery distillation columns	2019	Material Handling in Explosive environment
13	Oil and Natural gas Corporation, Offshore sites	Fresh Water Maker Packages	EPC Project / Equipment	Conversion of fresh and potable water from Sea water on Oil rigs for various utility and process applications	2019	Process and Utility water
14	Deepak Fertilizers & Petrochemicals Corporation Limited	CO2 Compressor Package	EPC Project / Equipment	High pressure CO2 Compressors for storing CO2 generated from process	2017	CO2 Pressurized Storage
15	Gujarat Gas Limited	CNG Station O&M	EPC Project / Equipment	Critical and Preventive maintenance and operation of CNG compressors at various stations spread across Surat, Vapi and Anand districts	2015	Operation and Maintenance

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Sr. No.	Infrastructure Organization	Package Name	Type	Scope of Work Description	Project executed (Year)	Location & Application
1	Indian Space Research Organization	Pressure Transducers	EPC Project / Equipment	For precision measurement of pressures in the Test Nozzle Protection System of Main Engine and Steering Engines of Cryogenic Upper Stage (CUS) Engine ,	2020	Instrumentation
2	Indian Space Research Organization	Compressed Air Package	EPC Project / Equipment	For testing critical and life saving instruments which are to be used in Space and Zero Vacuum and solar radiation environment	Under Execution	Instrument Air testing
3	Indian Space Research Organization	Pressure Transducers	EPC Project / Equipment	For measuring pressures of LOX and LH2 in CE20 Engine Feed line, CUS Engine inlet and Engine Test bay lines	Under Execution	Instrumentation
4	Indian Space Research Organization	Probe & Surface RTD's and Thermocouple probes	EPC Project / Equipment	For measuring temperatures within the LOX Catch tank, CUE Engine to H2 Buring System, CE-20 End feed line, for Stage Tank Presurization and N2 Ambient Vaporizer	Under Execution	Instrumentation
5	Ordnance Factory Bhandara	Centrifugal Pump	EPC Project / Equipment	For nitric acid pumping system used for processing gun powder	2020	Process application
6	Garden Reach Shipbuilders & Engineers	Compressed Air System	EPC Project / Equipment	For maintenance of defence war ship equipment, pneumatic actuation of valves and solenoids	2019	Instrument air and Utility air requirement
7	Cochin Shipyard Limited	Material Handling Equipment	EPC Project / Equipment	Hoisting and lifting solution for onboard material handling of Vessels docked at the shipyard	2019	On Ship
8	Cochin Shipyard Limited	Material Handling Equipment	EPC Project / Equipment	Hoisting systems for Passenger cum cargo vessel	2018	On Ship
9	Mazgaon Dock Limited	Compressed Air Network	Spares and Service	Spare systems and compnents for upkeeping of exisiting Compressed Air System handling pneumatic requirements of docking systems installed at MDL	2018	On Dockyard support sytem
10	Bharat Dynamics Limited	High Pressure Compressor system	Service Support	Carrying our breakdown and preventive maintenance of high pressure compressed air system and breathing air compressors	2018	Support System
11	Ordnance Factory Badmal	Compressed Air System	EPC Project / Equipment	For pressurizing water flow using pneumatic systems for actuation of dam door	2017	Away from plant utility system
12	Metal & Steel Factory Ishapore (Division of OFB)	Compressed Air System	EPC Project / Equipment	For supplying compressed air to the pneumatic actuators and instruments installed at the plant	2016	Instrument air and actuation
13	Ordnance Factory Ambajhari	Pressurized Air Tank	EPC Project / Equipment	7 m3 Air receiver tank for storing compressed air at high pressure for plant application	2016	Instrument air and actuation
14	Bharati Shipyard Limited	Compressor Package	Spares and Service	Supply and installation of spare systems for Compressed air package installed at the facility and carrying out preventive maintenance and upkeeping of the system	2010	On Shipyard