

# RELIABLE PARTNER

## ENGINEERING & CONSTRUCTION



Power

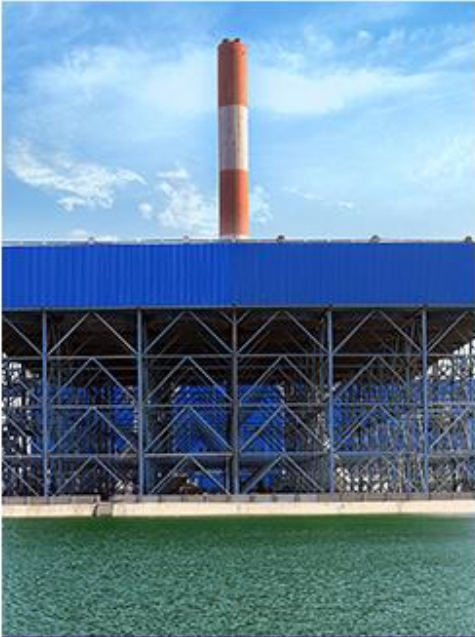


Transmission & Distribution



Water

## CAPITAL GOODS



Air Fin Cooler



Oil & Gas

# KEY MILESTONES



Established  
**1985** ➤ Promoted by  
Mr. B.G. Raghupathy (BGR),  
first generation entrepreneur

**2000** ➤ First Balance of Plant (BoP) contract for  
95 MW Combined Cycle Power Plant (CCPP)

**2008** ➤ Listed on  
National Stock Exchange (NSE)  
Bombay Stock Exchange (BSE)

**2011** ➤ E-BoP Orders from NPCIL for 2 x 700 MW Nuclear  
Power Plant at Kakrapar (Gujarat) and Kota  
(Rajasthan)

**2018** ➤ EPC contract for Crude Oil Storage Tanks at Karaikal, TN

**1998** ➤ Power Projects Division established

**2006** ➤ Three large size BoP contracts for 500 MW  
Units at Vijayawada, Kakatiya and Kothagudem, AP

**2008** ➤ Two large Engineering, Procurement & Construction  
(EPC) contracts of three 600 MW Units

**2016** ➤ Three large BoP contracts for two units of 800 MW and  
three units of 660 MW  
Contract for 45 MLD Tertiary Treatment Reverse Osmosis  
(TTRO) Plant at Chennai

**2019** ➤ EPC contract for 660 MW unit at Ennore, TN  
EPC contract for Gas Compressor Station at Ramnad, TN

## Engineering and Construction

- ❖ EPC, BoP, LSTK Construction for Power, Water, Infrastructure, Transmission & Distribution, Oil & Gas Projects in India

## Capital Goods

- ❖ Design & Manufacture of high-tech equipment for Power, Process Industries and Core Industries for global markets

# DOMAIN EXPERTISE – ENGINEERING & CONSTRUCTION



Executing turnkey EPC & BoP contracts for Thermal Power Plants

'DESIGN AND BUILD' structure, where the entire Design & Engineering is done under one roof

Deep domain expertise in design, detailed engineering, manufacturing, installation, & commissioning; efficient & seamless interfacing of BoP systems with Boiler, Turbine & Generator

Expertise in civil and tall structures, mechanical, Electrical C&I works enables 'MADE TO FIT DESIGN' from proposal stage to delivery

# TURNKEY EXECUTION EXPERTISE



## Balance of Plant

- Civil, Electrical & Mechanical Systems
- Tall Structures – Chimney & Cooling Tower
- Coal Handling Plant
- Ash Handling System
- Stacker Reclaimer
- Substation & Switchyard
- Induced Draft Cooling Tower

- Plant Piping System
- Deaerator
- Condensate Polishing Plant
- Desalination Plant including RO System
- Demineralisation Plant
- Pre Treatment Plant
- Effluent Treatment Plant
- Sewage Treatment Plant

- Air Cooled Condenser
- Air Fin Cooler
- Gas Conditioning & Metering Skid
- COLTCS & Debris Filter
- Fire Protection System
- AC & Ventilation System
- Control & Instrumentation

## Electrical Projects

- Turnkey contracts for Transmission and Distribution (T&D) network
- EHV AIS & GIS Substations
- Turnkey Contracts for Optical Fibre Communication Network –OPGW, ADSS & OLTE including Live Line Stringing.
- Electrical Balance of Plant for Thermal, & Hydro Power Projects
- Leading Provider of Electrical Balance of Plant Solutions for Nuclear Power Projects
- EHV Transmission Line

## Environmental Engineering

- Effluent Treatment & Recycling Plants leading to zero discharge
- Water Treatment Plants (Pre-Treatment & DM Plant)
- RO based Desalination Plants
- Municipal Water Treatment & Supply Systems
- Common Effluent Treatment Plants
- Sewage Tertiary Treatment Plants (TTRO)





## TALLEST COOLING TOWER IN THE WORLD

- Natural Draft Cooling Tower - constructed at Kalisindh, Rajasthan, India for RRVUNL
- 202 m high structure
- Maximum diameter of 149.35 meters using reinforced concrete in hyperbolic shell.
- Designed to withstand wind velocity of 170 KM per hour.





## LARGEST BOTTOM ASH HANDLING SYSTEM IN THE WORLD

- Installed in Mettur Stage-3, 1 x 600 MW Thermal Power Project
- Designed for the maximum demand for 77 tonnes/per hour (tph)
- The Crushed ash is pneumatically conveyed to ash silos nearly a kilometer away
- Huge saving in water to the extent of 2000 cubic meters/per day

# PROJECTS PAN INDIA



# KEY CUSTOMERS



# POWER SECTOR PERFORMANCE



Particulars	Capacity (MW)
<b>Projects Completed</b>	
❖ Sub Critical Plants	5,100
❖ Super Critical Plants	6,760
❖ Combined Cycle Power Plants	631
<b>Projects In Progress</b>	
❖ Super Critical Plants	4,240

# PROJECTS COMPLETED – POWER PROJECTS



CUSTOMER / PROJECT	Capacity (MW)	Fuel	Scope
NTPC Ltd. - Lara TPP, Chhattisgarh	2 x 800	Coal	STG
MUVNL Ltd. - Meja TPP, Uttar Pradesh	2 x 660	Coal	SG
NTPC Ltd. - Solapur TPP, Maharashtra	2 x 660	Coal	SG
OPGC - Banaharpalli STPP, Odisha	2 x 660	Coal	BOP
TPCIL - Krishnapatnam, Andhra Pradesh.	2 x 660	Coal	BOP
RRVUNL - Kalisindh TPS, Rajasthan	2 x 600	Coal	EPC
TNEB - Mettur TPS, Tamil Nadu	1 x 600	Coal	EPC

# PROJECTS COMPLETED – POWER PROJECTS



CUSTOMER / PROJECT	Capacity (MW)	Fuel	Scope
MAHAGENCO - Chandrapur STPS, Maharashtra	2 x 500	Coal	BOP
CSPGCL - Marwa TPS, Chhattisgarh	2 x 500	Coal	BOP
APGENCO - Vijayawada TPS, Andhra Pradesh	1 x 500	Coal	BOP
APGENCO - Kakatiya TPS, Andhra Pradesh	1 x 500	Coal	BOP
MAHAGENCO - Khaperkheda TPS, Maharashtra	1 x 500	Coal	BOP
APGENCO - Kothagudem TPS, Andhra Pradesh	1 x 500	Coal	BOP
TRN Energy Pvt Ltd, Nawapara, Chhattisgarh	2 x 300	Coal	EPC



# PROJECTS COMPLETED – POWER PROJECTS



CUSTOMER / PROJECT	Capacity (MW)	Fuel	Scope
RRVUNL - CCPP, Dholpur, Rajasthan	330	Gas	BOP
Aban Power - CCPP, Karuppur, Tamil Nadu	120	Gas	EPC
TNEB - CCPP, Valathur (Phase I), Tamil Nadu	95	Gas	BOP
TNEB - CCPP, Valathur (Phase II), Tamil Nadu	92	Gas	EPC
Madras Aluminium Company Limited Mettur	25	Coal	EPC
Aditya Cement CPP, Rajasthan	23	Coal	BOP

# PROJECTS IN PROGRESS – POWER PROJECTS



CUSTOMER / PROJECT	Capacity (MW)	Fuel	Scope
Neyveli Uttar Pradesh Power Ltd – Ghatampur Thermal Power Project	3 x 660	Coal	BOP
TANGEDCO Ltd – North Chennai Thermal Power Project	1 x 800	Coal	BOP
APGENCO Ltd - Dr NTTPS, Vijayawada	1 x 800	Coal	BOP
TANGEDCO Ltd – Ennore Thermal Power Station Expansion Project	1 x 660	Coal	EPC

# PROJECTS COMPLETED – WATER



PROJECT	CAPACITY
Tertiary Treatment Reverse Osmosis Plant (TTRO)	45 MLD
Water Treatment Plant Package for 3 x 800 MW Project	55 MLD
India's largest Textile Combined Effluent Recycling Plants in Tamil Nadu achieving Zero Liquid Discharge	21 MLD

# ENVIRONMENTAL ENGINEERING



**55 MLD Desalination Plant, AP**



**30 MLD WTP, Puri, Odisha**



**45 MLD TRO PLANT, CHENNAI**

# PROJECTS COMPLETED – TRANSMISSION & DISTRIBUTION



PROJECT	SCOPE
Supply, erection, testing and commissioning of 220 kV Switchyard for TEESTA-2 Hydro Electric Project	e-BoP
Supply, erection and commissioning of 6.6 kV Switchgear, 415 V MCC, Cabling in Power Island and Nuclear Island	Plant Electricals
Supply, inspection and Live Line Stringing of OPGW including Commissioning of Fibre Optic Network totaling 6070 KM	OPGW – Live Line Stringing
Design, supply, installation, testing and commissioning of 400 kV AIS Substation with 315 MVA Power Transformers, 125 MVAR Reactor	AIS Sub-Station
Design, supply, installation, testing and commissioning of 130 kV GIS Sub-Station with Power Transformers and associated 33 KV GIS Sub-Station	GIS Sub-Station



## PORTFOLIO OF EQUIPMENT FOR POWER & PROCESS INDUSTRIES

- Air Cooled Heat Exchanger
- Water and Oil Cooler
- Deaerators
- Water Treatment Plants
- Effluent & Sewage Treatment & Recycling Plants
- RO based Desalination Plants
- Condensate Polishing Units
- 2/3 Phase Production/Test Separators
- Oil & Gas Separator
- Indirect Water Bath Heaters
- Gas Dehydration, Regeneration & Gas Sweetening Systems
- Heater-Treater
- Fuel Gas Conditioning Skids
- Storage Tanks
- Pipeline Equipment-Pig Launchers/Receivers/Flow Tee's & Barred Tee's



# QUALITY CERTIFICATIONS AND ACCREDITATIONS



ISO Certification for  
Power Projects Division &  
Electrical Projects Division



Approved by  
INDIAN BOILER REGULATIONS (IBR)



ASME 'U' Stamp for two  
Manufacturing Units

ISO:9001 Certification for  
three Manufacturing Units



ASME 'S' certification for one  
Manufacturing Unit



14 Prestigious Awards for  
Export Performance

# BOARD OF DIRECTORS



S/N	Name	Occupation	Exp.	Designation
1	Mr Gnana Rajasekaran	Retd. IAS	30	Independent Director
2	Mr M. Gopalakrishna	Retd. IAS	56	Independent Director
3	Mr S.A. Bohra	Ex. Sr. Exec. Director, Nuclear Power Corporation	51	Independent Director
4	Mr S.R. Tagat	Practicing Chartered Accountant	36	Independent Director
5	Mr R. Ramesh Kumar	Company Executive	30	Director & Secretary
6	Mrs Swarnamugi R Karthik	Company Executive	15	Director – Corporate Strategy
7	Mr Arjun Govind Raghupathy	Company Executive	10	Managing Director
8	Mrs Sasikala Raghupathy	Business	43	Chairperson

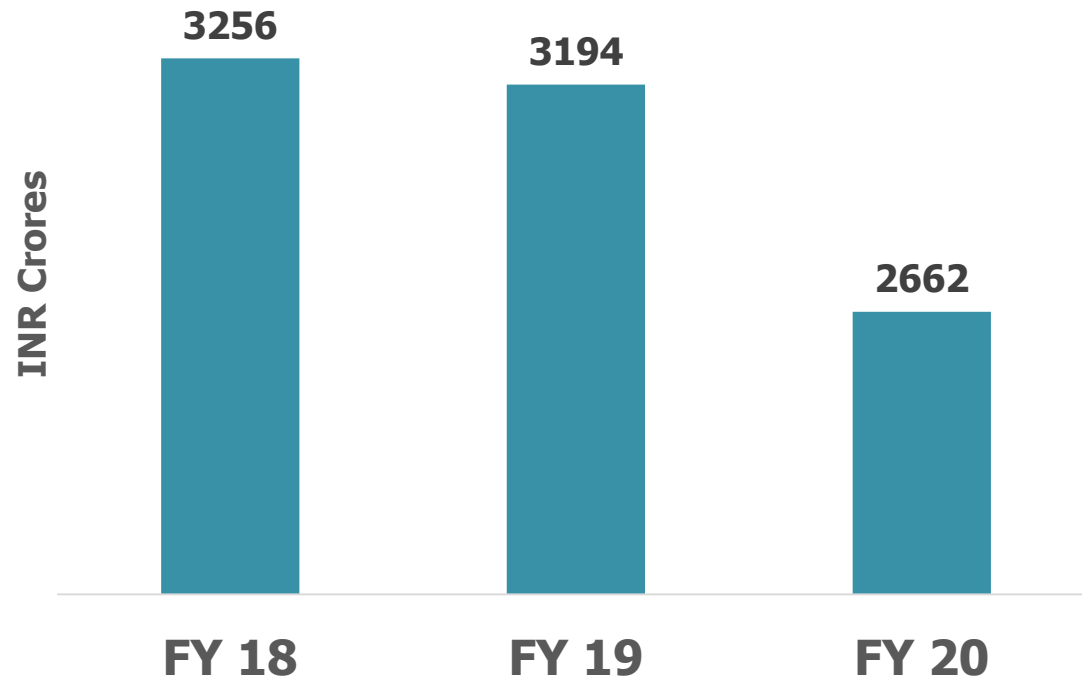
# HUMAN RESOURCES



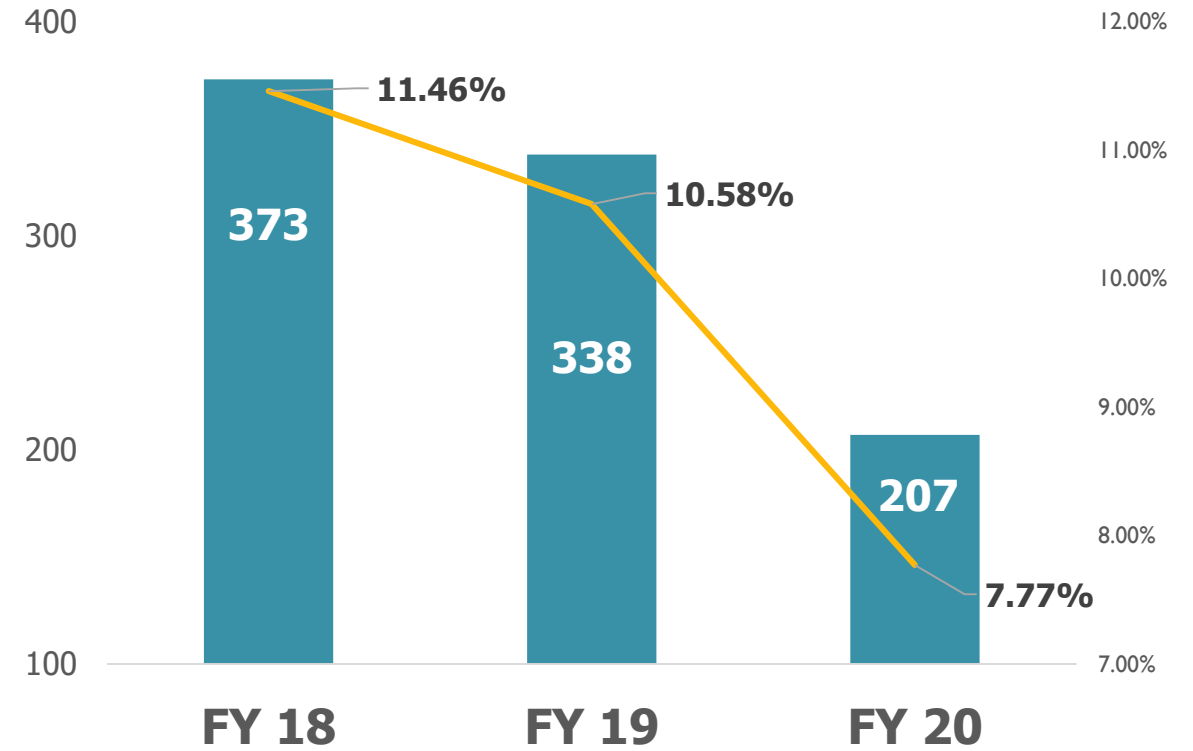
Department	Count
Design & Engineering	316
Procurement & Commercial, Project Management	310
Manufacturing, Construction Management & Quality Control	751
Business Development, Marketing & Proposals	46
Finance and Accounts, Human resource, Legal, Secretarial and other supported systems	138
Others	45
<b>Total Employees</b> (as on 30.09.2020)	<b>1,606</b>

	FY 2017-18		FY 2018-19		FY 2019-20	
	₹ Crores	%	₹ Crores	%	₹ Crores	%
<b>TURNOVER</b>	3,256		3,194		2,662	
<b>EBIDTA</b>	373	11	338	11	207	8
<b>P B T</b>	82	3	41	1	(64)	-2.4
<b>P A T</b>	40	1	28	1	11	0.4

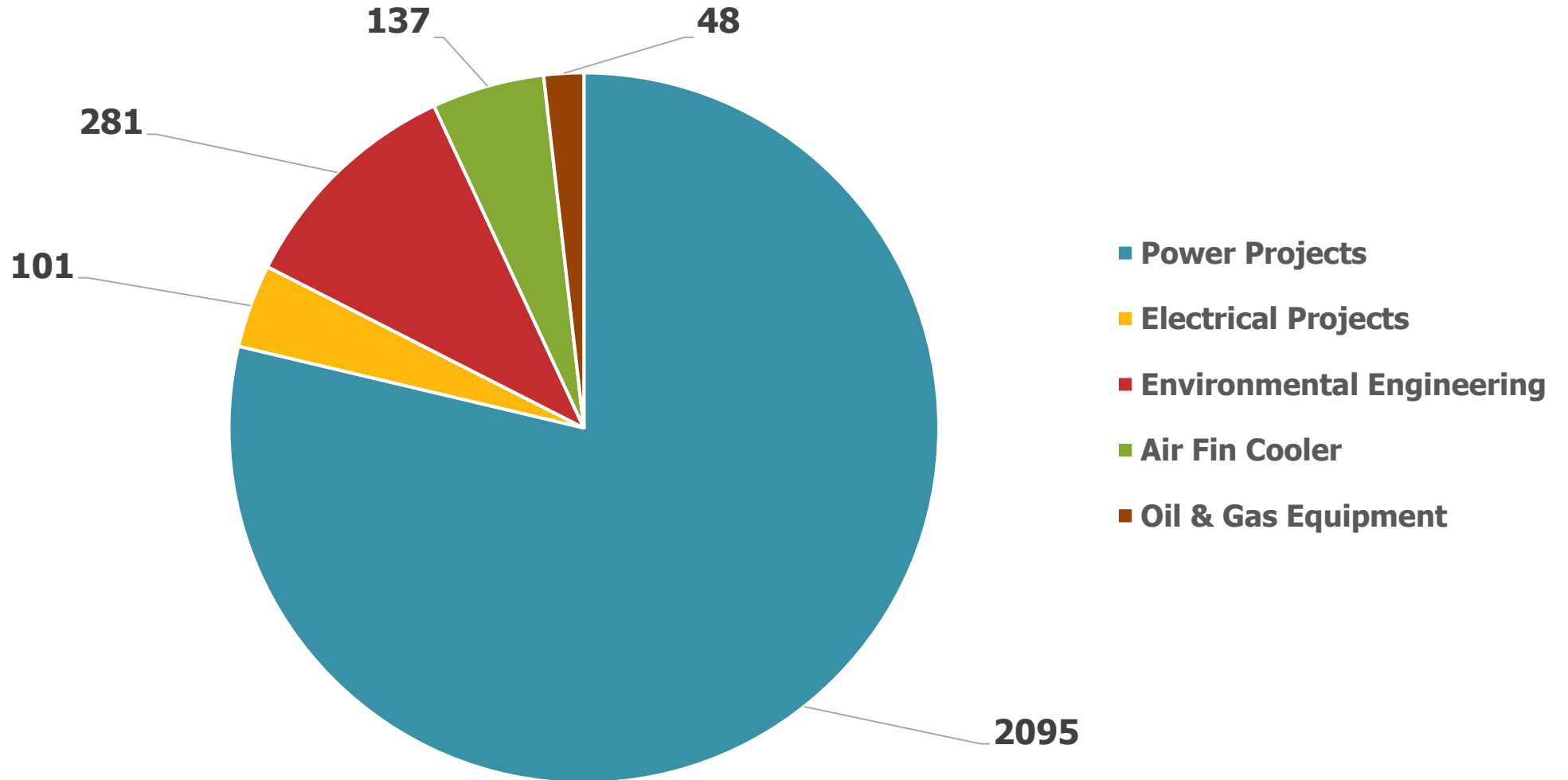
## TOTAL REVENUES



## EBIDTA AND EBIDTA MARGIN

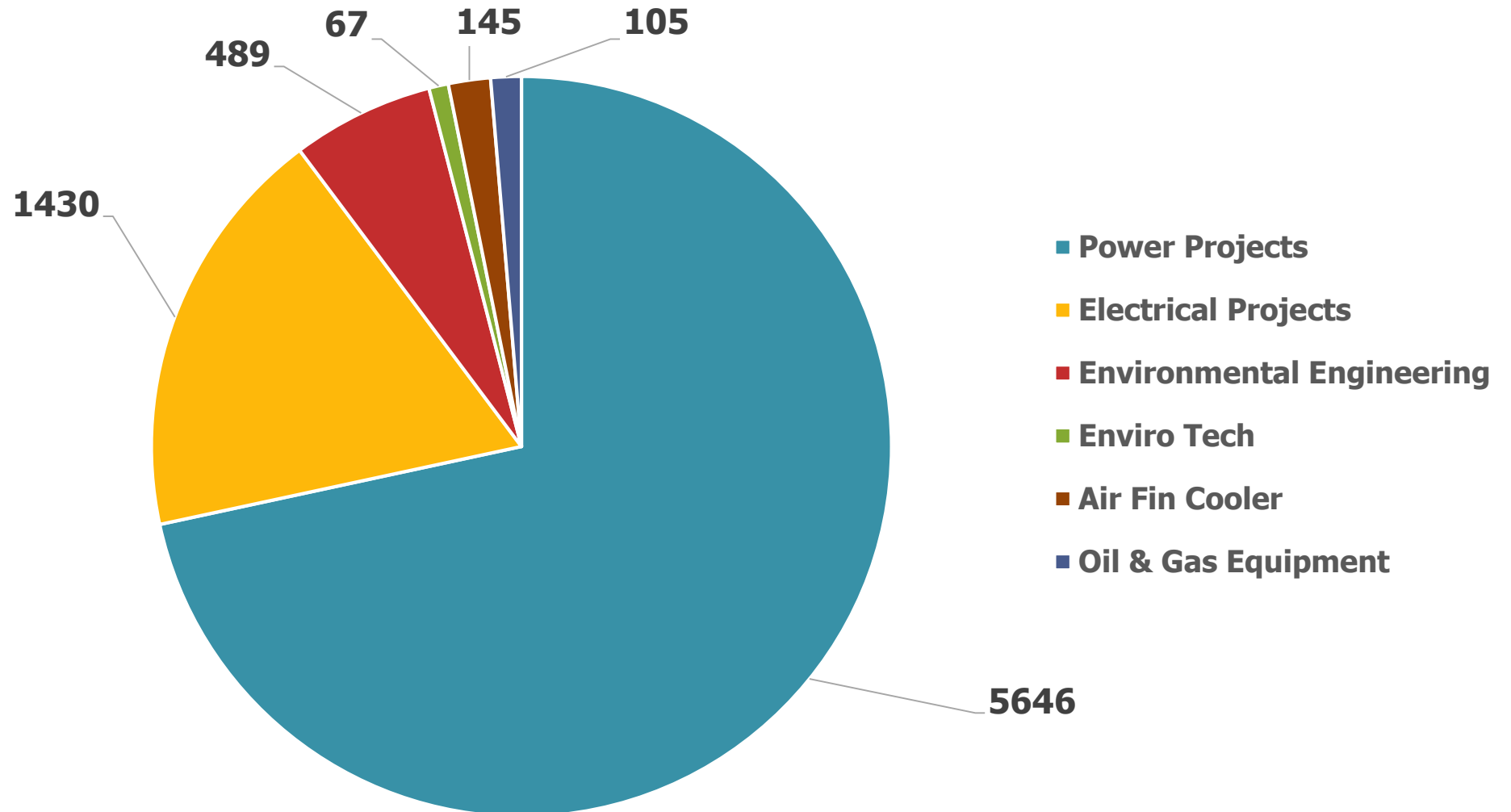


# FINANCIALS REVENUE FY 2019-20



**Total Revenue - ₹ 2,662 Crores**





**Total Order Backlog – ₹ 7,882 Crores**  
(As of 30<sup>th</sup> June, 2020)