

As on 31st December 2011

Power Oil & Gas

BGR ENERGY SERVES THE CORE SECTORS OF THE INDIAN ECONOMY





BGR Energy – A Snapshot

- Promoted by Mr. B.G. Raghupathy (BGR) as a joint venture with GEA Energietechnik GmbH,
 Germany in 1985
- Business in two segments Power, Oil & Gas sector
 - Turnkey project engineering and contracting; and
 - Supply of systems and equipment for Power, Oil & Gas industries
- Accreditations
 - ISO:9001 Certification for three Manufacturing Units
 - ASME 'U' Stamp for two Manufacturing Units
 - ASME 'S' certification for one Manufacturing Unit
 - Approved by Indian Boiler Regulations (IBR)
- Joint Venture and strategic alliances with multinational companies to cater to Power, Oil and Gas sectors
- Recipient of 15 prestigious awards for export performance
- □ Global operations executed more than 520 contracts in 59 countries
- □ Orders on hand INR 82150 Million as on 31st December 2011
- In the Domestic market, the Company has executed more than 1000 Contracts.



Proven track record in Design, Engineering and Turnkey Project Management capabilities across business divisions

- Power Projects Division
- Oil & Gas Equipment Division
- Air Fin Cooler Division
- Electrical Projects Division
- Environmental Engineering Division

Group Companies

- GEA BGR Energy System India Limited
- Progen Systems & Technologies Limited

Joint Venture Company

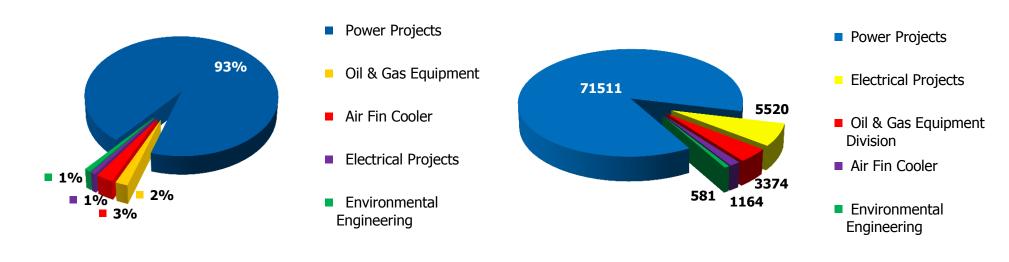
- GEA Cooling Tower Technologies (India) Private Limited
- BGR Boilers Private Limited
- BGR Turbines Company Private Limited



Business Divisions

Revenue break up for Year ended 31st March 2011

Order backlog as of 31st December 2011

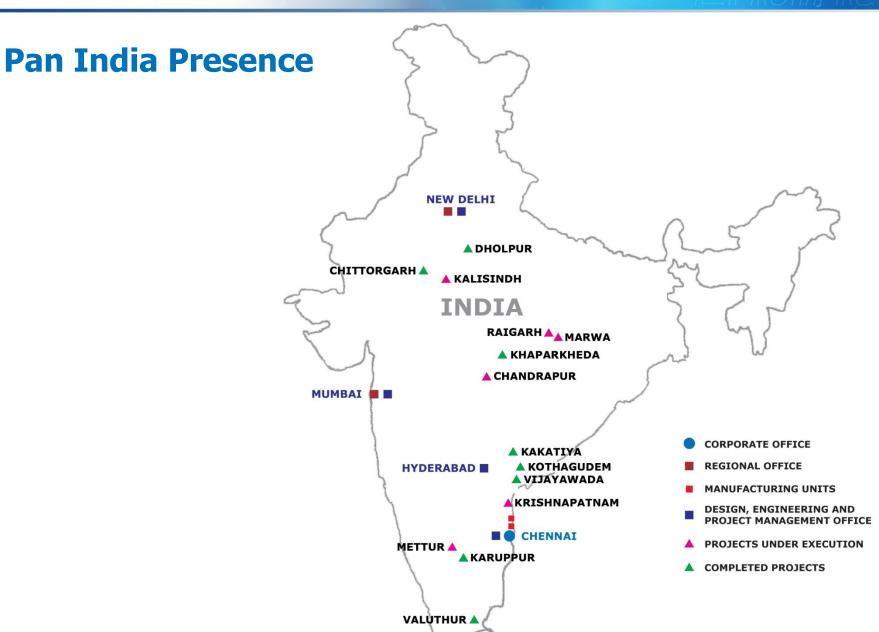


In INR Million

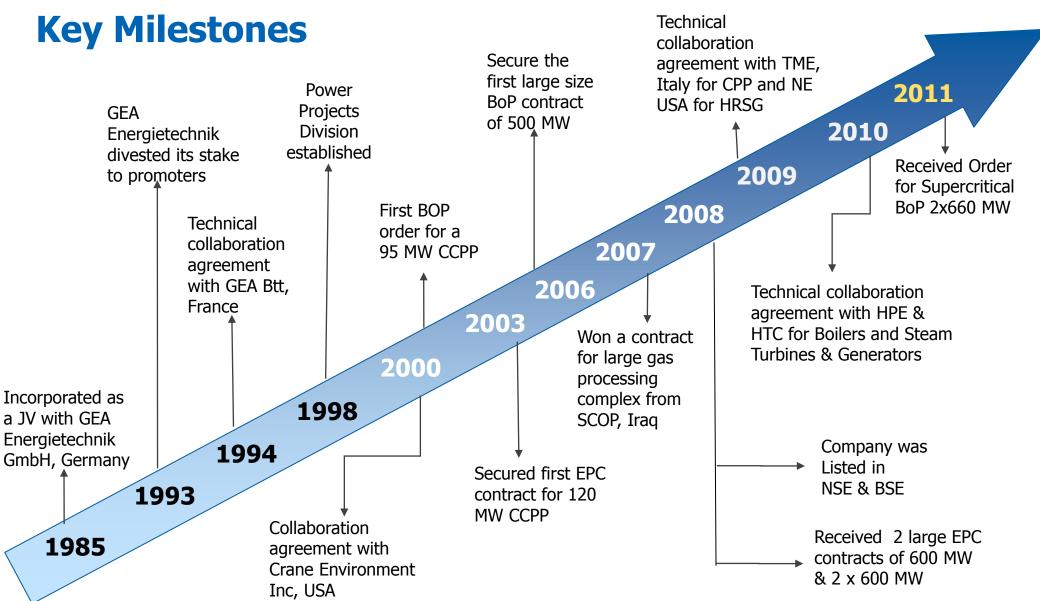
Total Revenue - INR 47475 Million

Total Order Backlog - INR 82150 Million





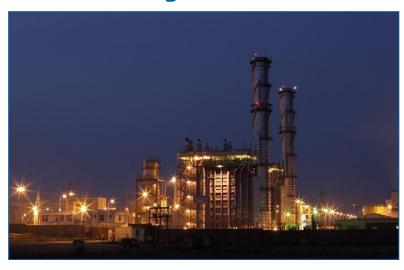






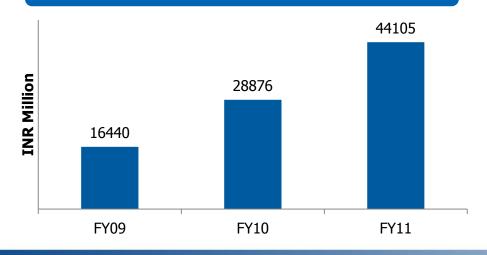


Power Projects Division



330 MW CCPP RRVUNL, Dholpur, Rajasthan

Total Income from Power Projects Division



- Turnkey Engineering, Procurement & Construction (EPC) Contracting –
 3 x 600 MW, 2 x 300 MW
- Balance of Plant (BOP) Contracting –
 5 x 500 MW, 2 x 660 MW
- In-house design and engineering capabilities, gives edge in Cost, design and Project Schedule
- □ 40 − 50% of 'Balance of Plant' systems manufactured in-house
- Early adopter of BOP concept in India
- Income of Rs.44105 Million in FY 10-11
- Order backlog of Rs.71511 Million as of 31st December 2011



PROJECTS COMPLETED - BoP PROJECTS COMPLETED				
PROJECT	CAPACITY (MW)	FUEL	ORDER VALUE (Rs. in Million)	
Grasim Industries - CPP, Chittorgarh, Rajasthan	23	Coal	444	
TNEB - CCPP, Valathur (Phase I), Tamil Nadu	95	Gas	594	
RRVUNL - CCPP, Dholpur, Rajasthan	330	Gas	2095	
APGENCO – Vijayawada TPS, Andhra Pradesh	500	Coal	5788	
APGENCO - Kakatiya TPS, Andhra Pradesh	500	Coal	6949	
MAHAGENCO - Khaperkheda TPS, Maharashtra	500	Coal	9980	



95 MW CCPP Valuthur (Phase I), Tamil Nadu



Vijayawada Thermal Power Station (Synchronized on 4th Apr `09)



Kakatiya Thermal Power Station, Andhra Pradesh



PROJECTS COMPLETED – EPC PROJECTS COMPLETED						
PROJECT CAPACITY (MW) FUEL ORDER VALU (Rs. in Million						
Aban Power - CCPP, Karuppur, Tamil Nadu	120	Gas	2697			
TNEB - CCPP, Valathur (Phase II), Tamil Nadu	92.2	Gas	3553			
Madras Aluminium Company Limited Mettur	25	Coal	765			



120 MW CCPP Aban Power, Karuppur, Tamil Nadu



92.2 MW CCPP Valuthur (Phase II), Tamil Nadu



POWER PROJECTS DIVISION – EPC PROJECTS UNDER EXECUTION							
PROJECT CAPACITY (MW) FUEL ORDER VALUE (Rs. in Million) Contractual Completion Schedule							
RRVUNL - Kalisindh TPS, Rajasthan	2 x 600	Coal	49000	42 Months			
TNEB - Mettur TPS, Tamil Nadu	1 x 600	Coal	31000	39 Months			
TRN Energy - Chhattisgarh	2 x 300	Coal	16980	29 Months			



Kalisindh Thermal Power Station Basic layout – Perspective view



Mettur Thermal Power Station Basic layout – Perspective view



POWER PROJECTS DIVISION – BoP PROJECTS UNDER EXECUTION					
PROJECT	CAPACITY (MW)	FUEL	ORDER VALUE (Rs. in Million)		
TPCIL - Krishnapatnam TPP, Andhra Pradesh	2 x 660	Coal	21680		
CSPGCL- Marwa TPS, Chhattisgarh	2 x 500	Coal	16330		
MAHAGENCO - Chandrapur STPS, Maharashtra	2 x 500	Coal	16320		
APGENCO - Kothagudem TPS, Andhra Pradesh	500	Coal	7930		



Kothagudem Thermal Power Station (Under Construction)



Oil & Gas Equipment Division



Indirect Water Bath Heaters



Compressor Packaging

Products and turnkey services for the Oil & Gas Industry

- Process Equipment Package and Systems
 - 2/3 Phase Separator System / Skids
 - Indirect Water Bath Heater
 - Gas Conditioning, Regulating & Metering Systems
 - Knockout Drums / Scrubbers
 - Filter Separators / Dry Gas Filters
- Pipeline Equipment Pig Launchers/Receivers
- Compressor Packaging
- Storage Tanks
- Income of Rs.871 Million in FY 10-11
- Order backlog of Rs.3374 Million as on 31st December 2011



Oil & Gas Equipment Division

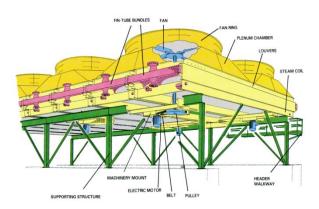
Executing many export orders

S/N	Customer	Customer Scope (
1	Akas & Al-Mansuria Gas Processing Projects, SCOP, Iraq	Engineering, Procurement & Supply of Gas Gathering Station	80.5
2	Karbala Oil Products Depot, SCOP, Iraq	Engineering, Procurement & Supply of Oil Storage Tanks	8.57
3	South Refineries Company (SRC), Iraq	Engineering, Procurement & Supply of Double Deck Oil Storage Tanks	8.75

Assumption: 1 USD = 48 INR



Air Fin Cooler Division



Air Cooled Heat Exchanger



Air Cooled Heat Exchanger, 120MW CPP Karuppur, Tamil Nadu

- Turnkey supply of Air Cooled Heat Exchangers for Oil & Gas processes and Power sector industries
- Capable of producing all three variations of finned tubes – embedded, extruded and welded finned tubes
- Certified by ASME with "U", "U2" & "R" stamp
- Key markets India, Middle East, Southeast Asia and North Africa
- List of clients include Larsen & Toubro Limited,
 Cameron Systems, Petrofac, Petrojet, Technip KT
 India Limited, KazStoryService Infrastructure India
 Pvt Ltd.
- Subsidiary Company qualified under Boiler regulations IBR
- □ Income of Rs.1305 Million in FY 10-11
- Order backlog of Rs.1164 Million as on 31st December 2011



Electrical Projects Division

- Undertakes Turnkey contracting for supply of Electrical Systems and Equipment for Power stations and process industries
- Offering Turnkey solutions for:
 - EHV Substations
 - EHV Transmission Lines
 - Plant Electricals
 - Gas Insulated Switchgear Substations
 - Optical Fiber Communication Network
 - OPGW, ADSS & OLTE
 - Rural Flectrification
- Electrical Balance of Plant for Thermal/ Hydro & Nuclear Power Projects
- Exclusive partnership with JZT provides turnkey solutions for OPGW communication networks
- Offers GIS Substations in association with leading manufacturers on case to case basis
- Income of Rs.706 Million in FY 10-11
- □ Order Backlog as on 31st December 2011 is Rs.5520 Million





Electrical Projects Division



66/11 KV KPTCL Substation, Ganji Kunte



230/11 KV Gas Insulated Substations, Hyundai, Chennai

Environmental Engineering Division



CPP – Condensate Polishing Plant



Effluent Recycling Plant – Tiruppur

Product range includes:

- Deaerators
- Effluent Treatment & Recycling Plants leading to zero discharge
- Water Treatment Plants (Pre-Treatment & DM Plant)
- **RO** based Desalination Plants
- CPP Condensate Polishing Plants
- **Exclusive Technical Collaboration with TERMOMECCANICA**, **Italy for Condensate Polishing Plants**
- Supplied on turnkey basis the largest ever Deaerator in India for NPC (Tarapur) with capacity of 3,013 TPH
- **Commissioned- Deaerators for SIPAT Supercritical** 3 x 660 MW Power Plant, NTPC
- **Under execution Six large-size Deaerators for Marfig in** Saudi Arabia, Hyundai Heavy Industries, Korea
- Income of Rs.485 Million in FY 10-11
 - Order backlog of Rs.581 Million as on 31st December 2011 17





Environmental Engineering Division

- Four large-size Membrane-based Effluent Recycling Plants at Tiruppur largest in capacity in India for treating textile dye effluents
- Sold over 100 Deaerators in India, Asia, Middle East and Africa, ranging in capacity from 10 TPH to 3,103 TPH





Key Differentiators

Proven track record in equipment and Turnkey contracting

- Dedicated to Power and Oil & Gas sector
- Undertakes turnkey EPC projects for large Utility Power Plants upto 600 MW

Diverse Design & Engineering capabilities

- Ability to Design & Manufacture customised products
- In-house Design & Engineering gives control over costs, design, time and competitive edge

Diverse range of products and services

- Significant synergies through complementary operations
- Ability to service both large and small scale projects
- Project management system and policy enable execution of large, multifaceted, complex projects
- Manufacturing capability is an added advantage in EPC projects

Cost Competitiveness

- Control costs by optimising product features and design
- Global sourcing

Technology tie-ups

Successfully tied up with several international companies to obtain technology and know-how





BOP Package – In House Systems

Design & Engineering of Civil, Electrical and Mechanical Systems	10. Effluent Treatment Plant
2. Civil Works including	11. Demineralization Plant
a. Chimney	12. Ash Handling System
b. Natural and Induced Draft Cooling Tower	13. Coal Handling System
3. Substation and Switchyard	14. Gas Conditioning & Metering Skid
4. Plant Piping System	15. Fabrication of Columns & Structures
5. Air Fin Cooler	16. Welded Finned Tubes
6. Air Cooled Condenser	17. Heat Recovery Steam Generator
7. Deaerator	18. On-line Condenser Tube Cleaning System
8. Desalination Plant including RO System	19. Debris Filter
9. Condensate Polishing Plant	20. Rubber Cleaning Balls for Condenser



Board of Directors

S/N	Name & Occupation	Industry Exp (Yrs)	Designation	
1	Mr. B.G. Raghupathy Industrialist	37	Chairman & Managing Director	
2	Mr. T. Sankaralingam Company Executive	41	Managing Director	
3	Mr. S. Rathinam Company Executive	32	Director (Finance)	
4	Mr. V.R. Mahadevan Company Executive	29	Director (Technologies, HR & Infrastructure)	
5	Mr. A. Swaminathan Company Executive	32	Director (Sales & Marketing)	
6	Mr. Heinrich Böhmer Business	44	Independent Director	
7	Mr. M. Gopalakrishna, Retd. IAS Director-In-charge, Andhra Pradesh Gas Power Corporation Limited	51	Independent Director	
8	Mr. S.A. Bohra Ex. Sr. Exec. Director (Technical) Nuclear Power Corporation	46	Independent Director	
9	Mr. M. S. Sundara Rajan Ex. CMD Indian Bank	38	Independent Director	
10	Mr. S.R. Tagat Chartered Accountant	30	Independent Director	
11	Mr. Gnana Rajasekaran IAS (Retired)	25	Independent Director	
12	Mrs. Sasikala Raghupathy Business	26	Director	





Leadership & Professional Management

- □ The company is managed by a highly motivated team of professionals
- The Management of the company has rich and deep experience in the industry
 - Average industry experience of the management is more than 25 years

Name	Position	Industry Exp (Years)	Exp with BGR Energy
Mr. B.G. Raghupathy	Chairman & Managing Director	37	26
Mr. T. Sankaralingam	Managing Director	41	2
Mr. S. Rathinam	Director (Finance)	32	19
Mr. V.R. Mahadevan	Director (Technologies, HR & Infrastructure)	29	24
Mr. A. Swaminathan	Director (Sales & Marketing)	32	14
Mr. R. Ramesh Kumar	President, Corporate & Secretary	24	19
Mr. P. R. Easwar Kumar	President & Chief Financial Officer	18	17
Mr. S. Venkataraman	Group President , Human Resource	35	2
Mr. G. Amudhan	President, Project Management	33	1
Mr. Ashish Tandon	President, Business Development	29	-
Major H.L. Khajuria	President & CEO, Environmental Engineering	41	14
Mr. V. Balakrishnan	President & CEO, Electrical Projects	29	8
Mr. N. Murali	President & CEO, Oil & Gas Equipment	31	5
Mr. S. Ilanchezhiyan	President & CEO, Air Fin Cooler	25	4



Human Resources

As on 31st January'12

Particulars Particulars	No. of Employees
Total Employees	2288
Engineers	1914
Design & Engineering	652
Project Management & Quality Control	310
Planning, Procurement and Production	891
Marketing	61
Professional Staff	242
Finance and Accounts	110
Human resource, Legal, Secretarial and Systems	132
Others	132





3 Years Financials – A Snapshot

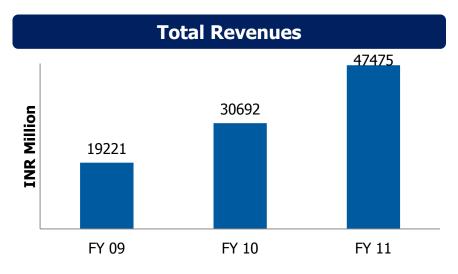
INR Million

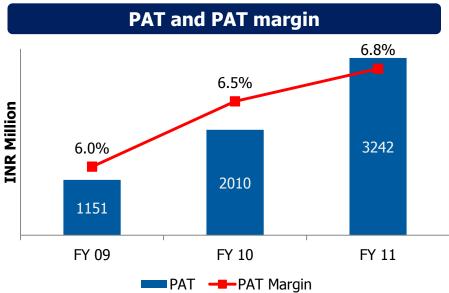
	Audited Year ended 31.3.2009 (12 months)	%	Audited Year ended 31.3.2010 (12 months)	%	Audited Year ended 31.3.2011 (12 months)	%
TURNOVER	19221	100	30693	100	47475	100
EBIDTA	2081	10.83	3480	11.34	5507	11.60
PBT	1747	9.09	3047	9.93	4820	10.15
PAT	1151	5.99	2010	6.55	3242	6.83

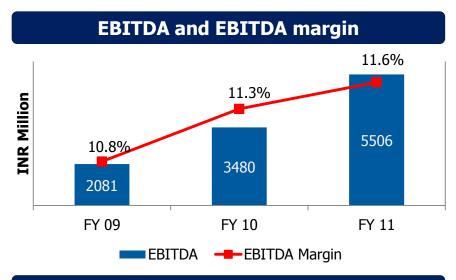


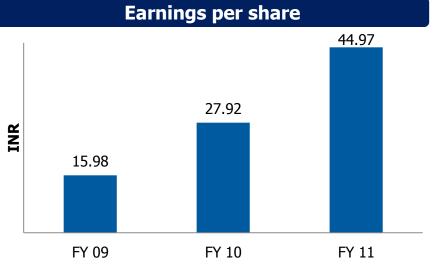


Robust Financials





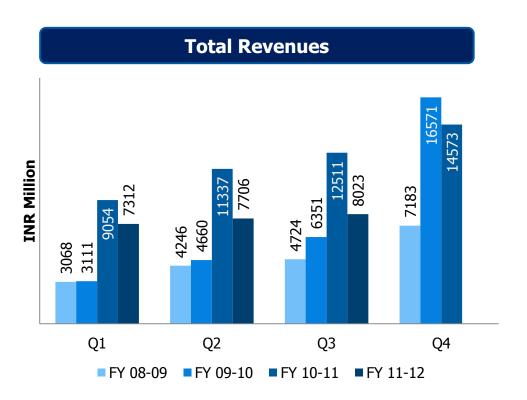


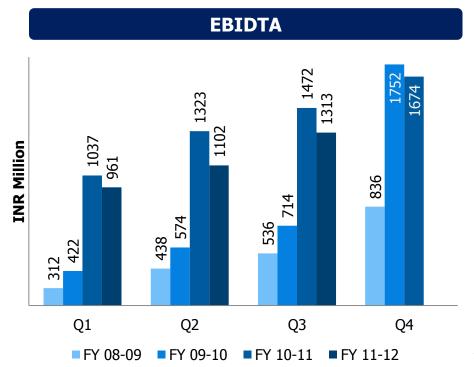






Quarterly Financials









Quarterly Financials

