

# FTS GROUP

Knowledge and Imagination



**Feynman Technology Services  
FTS Consultants Private Limited**

## About Us

FTS GROUP is an emerging & one of the fastest growing Engineering & Consultancy Service Providing organization of India, initiated its humble beginning in the year 2006 from Kolkata with a determination to offer innovative, optimum, value added complete in-house, Engineering solution and services to the clients. Also having a dedicated team for the R&D and import substitution (Make in India) activity, to restrict the monopoly of the Foreign Players in Indian Market.

During these years of journey, due to the tireless effort of all the members of FTS, it could spread it's wings in various field of Engineering in India & Abroad and have delivered more than 350 Projects of Engineering & Consultancy Services to the prestigious & respectable clients in diverse sectors of Industry.

**FTS believes in:** Customer first, Uncompromising quality of services, Achieving a high degree of Optimized Engineering, Execution of jobs within committed time, Long term partnership with the Clients & Technology providers, have the desires to encourage & retain skilled human resources. We (FTS) have earned the trust & reputation of our prestigious customers in these sectors of the industry & has made us a trusted Engineering force.

FTS is different as it has all the Engineering wings under one roof, in-house design engineering capability with R&D facility.

More than 125 members from prestigious Institutes of Country with enormous experience & exposure are dedicatedly serving to achieve the mark of excellence & satisfaction.

The modern offices are equipped with most modern facilities for the employees, applicable software's for 3-D modeling, parametric design and modern analysis. We boast of our Human resources policy caring for health, safety & motivation, Vast technical soft library, Robust internet facility, Non-stop power backup, Conference & Projection rooms, Canteen / Pantry facilities.

FTS is committed to grow under the sweet shadow and blessings of the satisfaction of satisfied Customers / Clients and all other stakeholders.

## From MD's Desk



FTS was conceived with the aim & idea of offering practical Engineering solutions customized for Indian context to replace & restrict the monopoly of foreign Multinational players with a concept of Make in India.

During the journey of these years, the members of FTS family have put in their untiring efforts to reach each mile stone and have successfully delivered services & the responsibilities entrusted in various field of engineering and Consultancy, including import substitution.

As a new initiative, FTS GROUP is committed towards 'MAKE IN INDIA' and started designing of critical equipment's parts / component for the heavy engineering industry and also penetrated in retrofit-engineering for imported critical components which are well accepted in Indian Industry with cost benefit.

Today, FTS GROUP is recognized as one of the most successful Engineering solution and service provider in all sectors of industry but we believe, we have miles to go to reach our ultimate Goal of excellence.

I am sure that all our team members will strive to achieve and put their whole hearted contribution to fulfill the dream to establish FTS GROUP as one of the preferred multinational of Indian Origin.

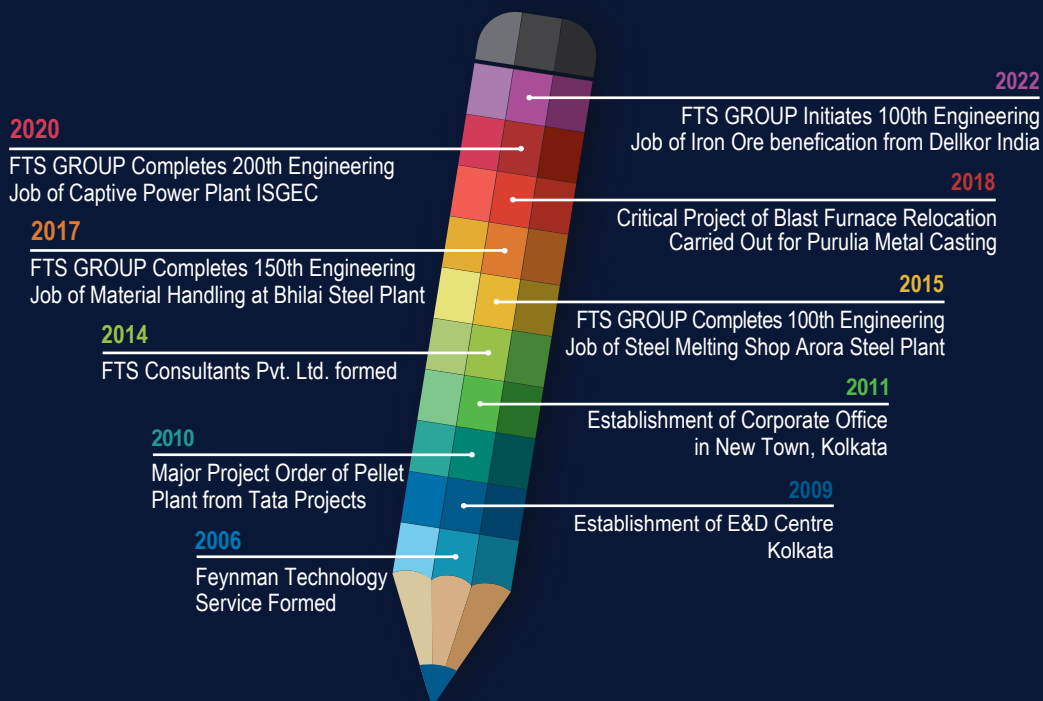
I congratulate our team for their achievements and pray for all the success of this GROUP in future.

*Anupam Sinha*

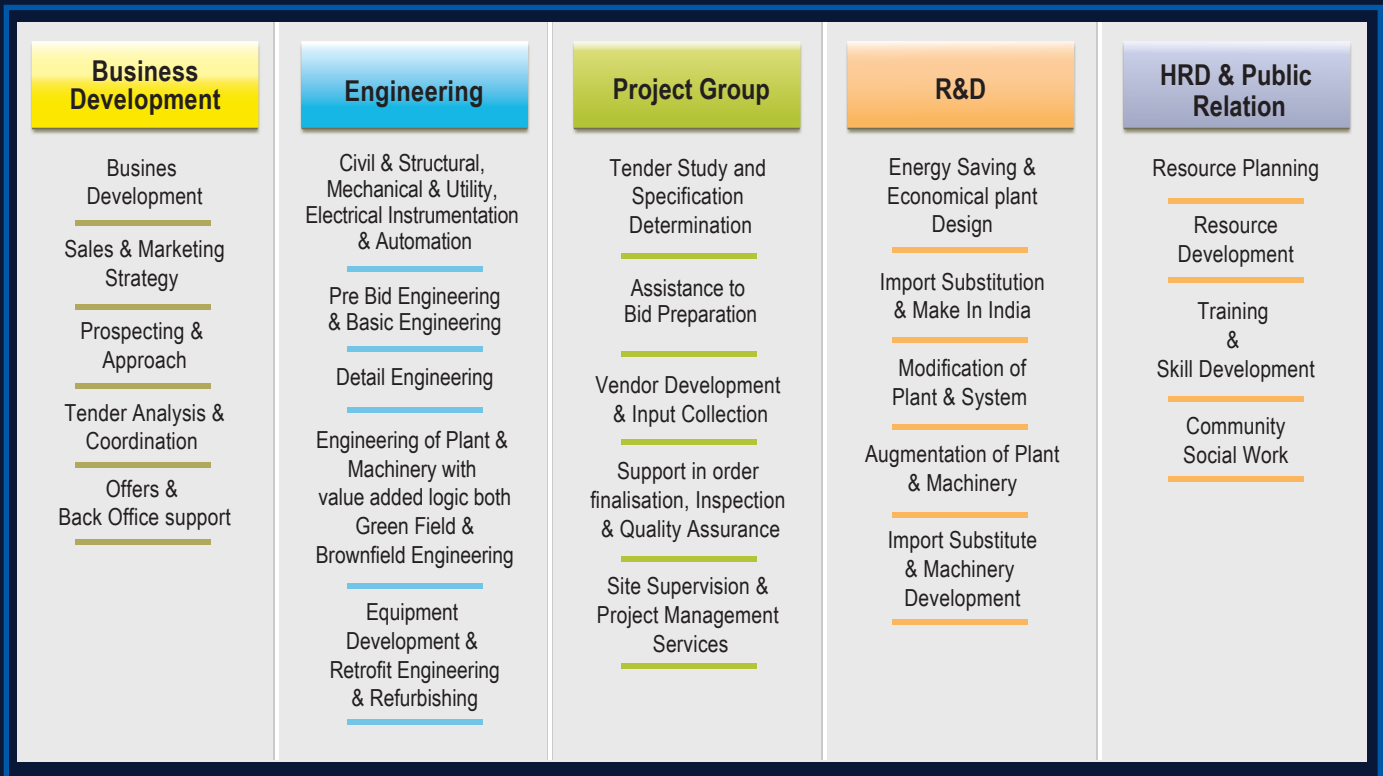
# Core Capability

DOMAIN VERTICALS											
Y=YES	Steel & Iron Making	Bulk Material Handling System	Mines & Minerals	Pollution Control & FGD	Substation & Switch yard	System Automation	Chemical & Process Plant	Balance of Power Plant	Industrial & Commercial Buildings	Equipment & Development	Oil & Gas
CORE CAPABILITIES	Site Survey & Mapping	Y	Y		Y	Y	Y	Y	Y	Y	
	Process Engineerings	Y	Y	Y		Y	Y	Y	Y		
	Basic Engineering	Y	Y	Y		Y	Y	Y	Y		
	Preparation of Tender Specification	Y	Y	Y		Y	Y	Y	Y		
	Analysis	Y	Y	Y	Y	Y	Y	Y	Y	Y	
	Design	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	Architectural Design & Detailing	Y	Y	Y	Y			Y	Y	Y	Y
	Structural Design & Detailing	Y	Y	Y	Y	Y		Y	Y	Y	Y
	Civil Design & Detailing	Y	Y	Y	Y	Y		Y	Y		Y
	Retrofit & Augmentation	Y	Y	Y	Y	Y		Y	Y	Y	
	Evaluation of BID & Recommendation	Y	Y	Y	Y	Y		Y	Y	Y	Y
	MEP Design & Detailing	Y	Y	Y	Y	Y		Y	Y	Y	Y
	Inspection & Quality Assurance	Y	Y	Y	Y	Y	Y	Y	Y	Y	
	PMC /Site Supervisions	Y	Y	Y	Y	Y	Y	Y	Y	Y	

# Milestone Achieved



# Organization Structure



# Infrastructure

Office Premises Details	List of The Software Skill	Network & Power System	Storage & Library
<p>We have offices very close to Netaji Subash Chandra Bose International Airport, Kolkata. The offices are equipped with most modern facilities like Library, Pantry, Guest House. Latest software and hardware facilities for the purpose of Design Engineering Services.</p> <p>Our offices are :</p> <p><b>Corporate Office:</b>  <b>Ecosuite-</b>                      ECSU 041, Plot no: 11D/22                      Action Area-II, New Town                      Near City Centre-II                      Kolkata-700156                      Ph. No: +91 8276010 272/273</p> <p><b>Engineering &amp; Development Centre:</b>                      Madhusudan Complex                      Michael Nagar South Jessore Road                      Kolkata-700133                      Ph No: +91 9836056 784/214  <a href="http://www.ftsengineers.com">www.ftsengineers.com</a></p>	<p>Our team are well trained in both 3D and 2D softwares used in CAD.</p> <p>Few CAD softwares used by us are:</p> <ul style="list-style-type: none"> <li>• Autocad</li> <li>• Autocad Factory Design Suite</li> <li>• Autocad Advance Steel</li> <li>• Revit Structure Suite</li> <li>• ZWCAD</li> <li>• TEKLA</li> <li>• Rebar Cad</li> <li>• Solidworks</li> <li>• CADWORX</li> <li>• WISE Mechanical</li> </ul> <p>Also Engineers are well equipped in utilising different Design &amp; Analysis softwares like:</p> <ul style="list-style-type: none"> <li>• STAAD.Pro</li> <li>• SEASAR II</li> <li>• AUTO PIPE</li> <li>• ETAP</li> <li>• HTRI</li> <li>• PIPE NET</li> <li>• F.E.A Etc.</li> </ul>	<p>High Speed Internet System based on Lease line</p> <p>24 Hours Power Backup</p> <p>Cloud based Central Storage System</p> <p>All offices are connected through SSL VPN</p> <p>FIREWALL Protected System</p> <p>Highly Equipped Video Conferencing Centers.</p>	<p>FTS GROUP maintained and organised both Hard and Soft Library to facilitated their Engineering and Development activities.</p> <p>In Hard Library we have more than 10,000 items those include Books, Articles, Journals, National &amp; International Code and Standards.</p> <p>We also maintaining cloud based soft library enabling our team members to access engineering data , code and standards.</p> <p>All the above facilities are available for 24X7.</p>

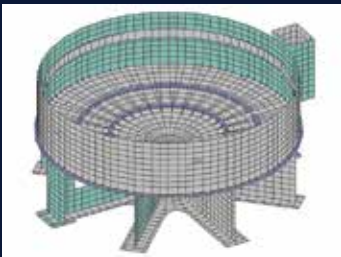




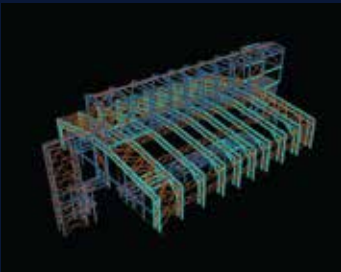
# Single Point Solutions

## Civil and Structural

From the beginning, our (FTS) Civil & Structural engineering division has catered to the needs of the industry in an efficient and professional manner keeping in mind the needs of the Clients and up to date trend in technology (sophisticated software) and implementation techniques.



Professionals having years of valuable working experience are working hard to deliver the best in deciding matters related to Dynamic loading, Pre-stressed factors leading to economized and stable structures. We concentrate on heavy to light structures such as **Sheds, Shops, Office Complexes, Technological & Auxiliary buildings, Drainage & Piping support, Material Handling System, Machine Foundations, Junction Houses, Steel Structures, Silos, Hoppers, Intake well, Water Tanks, Electrical substations, Towers & Inter Stock Pile (Civil & Structural)** as it goes in tandem with engineering of project infrastructure (Green field or Brown field).



The services we offer are specialized and have earned applause from clients, certifying satisfaction which is our top priority. Our Technical capabilities include Pre-bid engineering to Basic & Detail Engineering Service covering BOQ, Technical specifications, DBR, Project planning & scheduling, **Architectural and General Arrangement Drawings, Structural Analysis and Design using Staad. Pro**, Construction drawings of RCC & Steel structure, FEM analysis for Plate element, Beam element using **Staad. Pro**, Quality Optimization, **3D detailing** by using **TEKLA, REVIT STRUCTURE SUITS, BBS by RC cad**. We also extend our Technical support for

obtaining approval of relevant document / drawings from statutory body, Technical support for Revamping & Expansions of existing plant.

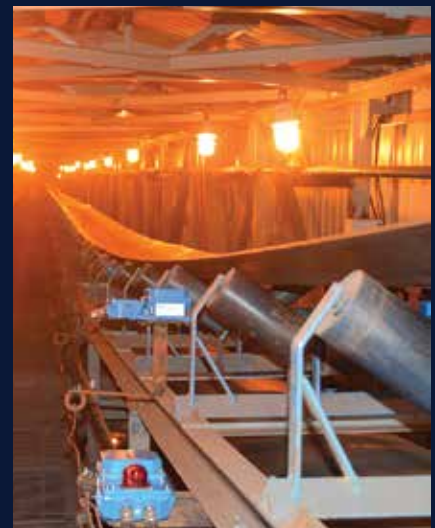
We also provide the site supervision support including Project management services to our Clients.

## Bulk Material Handling

We (FTS) have the core competency in handling of Bulk Materials in the form of Lumps, sized-solids, Granules & Powdered material of conveying nature. Having enormous Experience in designing of the Conveying & handling systems of different materials like Coal, Iron Ore, Pellet, DRI, Bauxite, Alumina, Lime Stone, Salts, Fertilisers and Chemical, which includes the Wagon tippler and Downhill conveyor” Stacker-Reclaimer, Paddle Feeder etc.

We do provide complete optimum handling solutions of the Materials Handling to our prestigious clients for the handling of Ores from the Mine end to the despatch end of the finished product through Truck loading / Railway loading (Rapid Loading / RLS) systems, as suitable to the site condition and to the client.

Our typical services include the preparation of layout, plot plant and system design, design of conveying system including Motor power calculation, Drive component selections of Belt Conveyors, Chain Conveyors, Steep angle conveyors, Screw conveyors, Pipe conveyors, Bucket elevators etc. Detail drawing of conveyors of component and fabrication drawing of technological structure.



## Electrical and Power

Our professional and talented pool of electrical engineers cater to the core concepts of any large-scale Electrical System for Generation, Transmission & Distribution. The thrust is also on power distribution system along with drives and controls for Diversified processes, E-BOP for plants & other auxiliary system. We have completed design of substation upto 400KV. Industrial Distribution system both MV and LV for different plants, from preparation of scheme / SLD, detail engineering including erection related engineering are successfully completed for our clients.



FTS are involved in system study like load flow study, short circuit analysis, relay co-ordination etc.

We have also successfully designed, supplied and provided supervision for 133KV substation and transmission lines, also have successfully completed E-BOP for Electric Steel Melting Shop, Bar rolling mill etc.

## Automation & Instrumentation

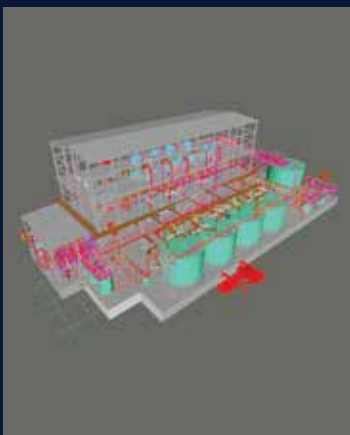
FTS Engineers offers innovative and cost-effective Engineering, Engineering procurement, Installation and Commissioning services catering various industries like Metals, Mining, Chemicals, Petrochemical, Oil & gas, Power & energy, Water & waste water etc. that cover Pre-bid Engineering, Basic Engineering and Detail Engineering for process control Instrumentation, Safety Instrumentation and Industrial Automation solutions.

The comprehensive services include preparation of P&ID, data sheets and construction drawings like hookup drawings, cable engineering etc. for all kinds of process and analytical instruments, pollution, environment & machine monitoring systems, Gas & Flame & Fire detection solutions, PLC & DCS systems. Our experienced team can perform technical evaluation of drawings & offers from vendors and can recommend optimum solutions.



Our Project Department also undertake Procurement, Supply, Installation Supervision and Commissioning activities as per our esteemed clients' requirement.

## Piping & Utilities



Piping & Utility engineering department are completely equipped with highly qualified and experienced personnel and updated software facilities.

Our focus is to provide a complete solution under one umbrella i.e. "Starting from DBR, Basic Design & engineering including detail preparation of drawings to the right value of engineering".

The general scope of work includes preparation of DPR, Basic & Detail engineering drawing, Preparation of Technical Specification, Preparation of Bill of Quantities, Supervision of Installation & commissioning, handing over to client i.e. inception to PG test of a Project on behalf of customer for Water System, Compressed Air System, Nitrogen System, BF Gas System, Steam line work, Natural Gas, Coke Oven Gas, Fuel Oil System, Hydraulic System, Fire Protection System & HVAC System.

## Pollution Control System



Now a days Pollution Control System has a basic need in each & every Industries. Considering the same in mind, our Organization has built up a department complete with skilled engineers & highly experienced personnel who have an in-depth knowledge of latest Indian as well as International standards.

The general scope of work includes preparation of DBR, Basic & Detail engineering drawing, Preparation of Technical Specification, Preparation of Bill of Quantities, Supervision of Installation & commissioning, handing over to client i.e. inception to PG test of a Project on behalf of customer for Equipment Engineering for Dry & Wet types of Pollution Control.

## Retrofit Engineering & Equipment Development

FTS has a track record of developing equipment for special application. Our R&D wing has successfully developed Special ladle for liquid metal handling, self primed ladle cars, controlled scrap feeding system etc.

FTS have achieved a milestone under the revolutionary caption of “Make in India”. Our in-house R&D has contributed to the Indian Industry to a large extent, by restricting the import of “Centrifugal Casting Machine” for the manufacturing of Ductile Iron pipes.



▲ 1.2 MTPA Total Pallet Plant



▲ 0.3 MTPA Combo Mill for Production of bar & medium section



▲ 0.5 MTPA SMS Based on Induction Melting Shop



# Notable Projects



▲ LT Distribution System for rolling mill



▲ MV electrical distribution room for SMS



▲ Dry GCP for Mini Blast furnace Project



▲ 1.2 MTPA Pallet Plant Total Internal Piping & Ducting



▲ Pollution Control System for Sinter Plant Material Handling



▲ Total Ducting of Gas Cleaning Plant



▲ BF Flux Conveyor System



▲ Tripper Conveyor Developed In-House & Supplied



▲ Vibratory Feeders Developed In-House & Supplied to Pallet Plant



▲ 1st time in India we have designed Centrifugal casting Machine for Manufacturing of Ductile Iron pipes



▲ Selfprimed Ladle Car Developed & Supplied for Molten Iron Transfer

# National Clients

- A** • ABB
- Alstom Group
- Arora Iron & Steel Rolling Mills
- Arcilormittal

- B** • Bhilai Engineering Corporation
- Bengal Tools
- Beekay Engineering Corporation
- Balmer Lawrie
- Beumer India

- C** • Centri Stat Rolls Pvt. Ltd.
- Crescent Power Ltd.

- D** • Dastur
- Development Consultants Pvt. Ltd.
- Danieli India Ltd.
- DPSC

- E** • Engineering Projects (India) Ltd.
- Electrosteel Vedanta

- F** • FLSmidth

- G** • GE Power (India) Ltd.
- GSD Castings
- Gypmart India Pvt. Ltd.

- H** • Himadri Chemicals
- Haldia Nirman Projects Pvt. Ltd.

- I** • ISGEC Heavy Engineering Ltd.

- J** • Jacobs
- Jai Balaji Industries Ltd.
- JSW ISPL
- JMC Projects (India) Ltd.
- Jindal Steel & Power, Raigarh

- L** • Larsen & Toubro
- Lisega India Pvt. Ltd.

- M** • Metso
- MBE Coal & Mineral Technology

- N** • Neo Metaliks
- Nippon Sumikin India
- Nippon Arcilormittal



- P** • Primetals Technologies
- Paul Wurth
- Purulia Metal Casting

- R** • Rashmi Group

- S** • Shakti Development
- Siemens
- SMS India
- Saralle
- STUP Consultants Pvt. Ltd.
- Shapoorji & Pallonji
- Schenck Process
- Sterling & Wilson
- Steel Plantech India

- T** • Tata Projects
- Tata Steel Project
- Tata Metaliks
- Takraf
- Topcem India
- Tuaman Engineering Ltd.
- Tenova Delkor
- Titagarh Wagons
- ThyssenKrupp
- Tata Consulting Engineers Ltd.

- U** • Uniseven Engineering & Infrastructure Pvt. Ltd.
- UtkarshTubes & pipes Ltd.

- V** • Vedanta Group

- W** • Wesman



# International Presence



ANGOLA



BANGLADESH



BHUTAN



ETHIOPIA



GHANA



IRAN



ITALY



KENYA



NEPAL



NIGERIA



PARAGUAY



SPAIN



SRI LANKA



TANZANIA



UAE



UKRAINE





Knowledge and Imagination



# FTS GROUP | Feynman Technology Services FTS Consultants Private Limited

[www.ftsengineers.com](http://www.ftsengineers.com)

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