



Head Office

Plot No. 166, Road B-7, Hayatabad Industrial Estate, Peshawar.

Steel Plants

Unit 1: Lahore | Unit 2: Peshawar

Corporate Sales Offices

Karachi 98 B, Block 2, PECHS, Near Shahra-E-Quaideen, Karachi.

Peshawar Plot No. 166, Road B-7, Hayatabad Industrial Estate, Peshawar.

Lahore 1st Floor, 56 R -1, Johar Town, Lahore.

Islamabad Plot 06, West Service Road, Industrial Area, Sector I-9/2, Islamabad.



Corporate Profile



The Only Manufacturer to Exclusively

Produce **GRADE 60 STEEL BARS**



Message from Senator Nauman Wazir Khattak (Chairman)

"I had a dream; most of which I have successfully achieved. Professionalism at its peak in every department of our company; where every individual looks forward to their work the next day. A dream company led by a dream CEO who has the potential to lead the company to its zenith not only in Pakistan but globally.

Humility, fair play, integrity, and respect for all irrespective of their gender cast, creed or stature, is the hallmark of the company.

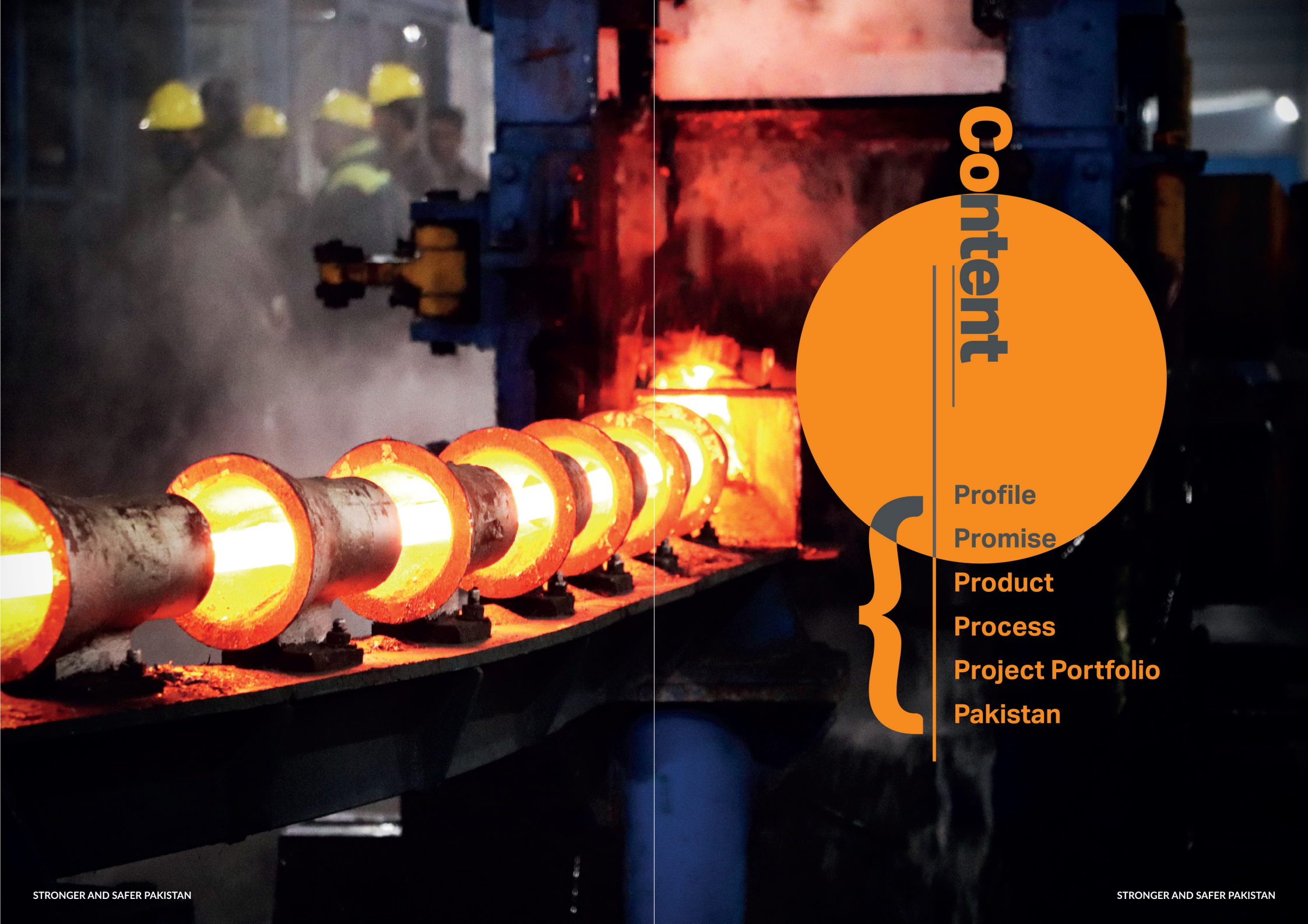
Acquisition of the latest technology spun at places with labour intensive processes, mingled with appropriate technology has resulted in the highest productivity in the steel sector of the world.

Simultaneously resulting in lower, sustainable, production cost and subsequent excellent profitability to the company's shareholders.

The FF team as part of its CSR takes pride in providing extreme high value to its clients, vendors, investors, and the community.

Our patriotism is second to none in Pakistan".

Chairman FF STEEL



Content

- Profile
- Promise
- Product
- Process
- Project Portfolio
- Pakistan

Promise

Vision

'To be a futuristic steel manufacturing organization; exceeding expectations of our stakeholders'

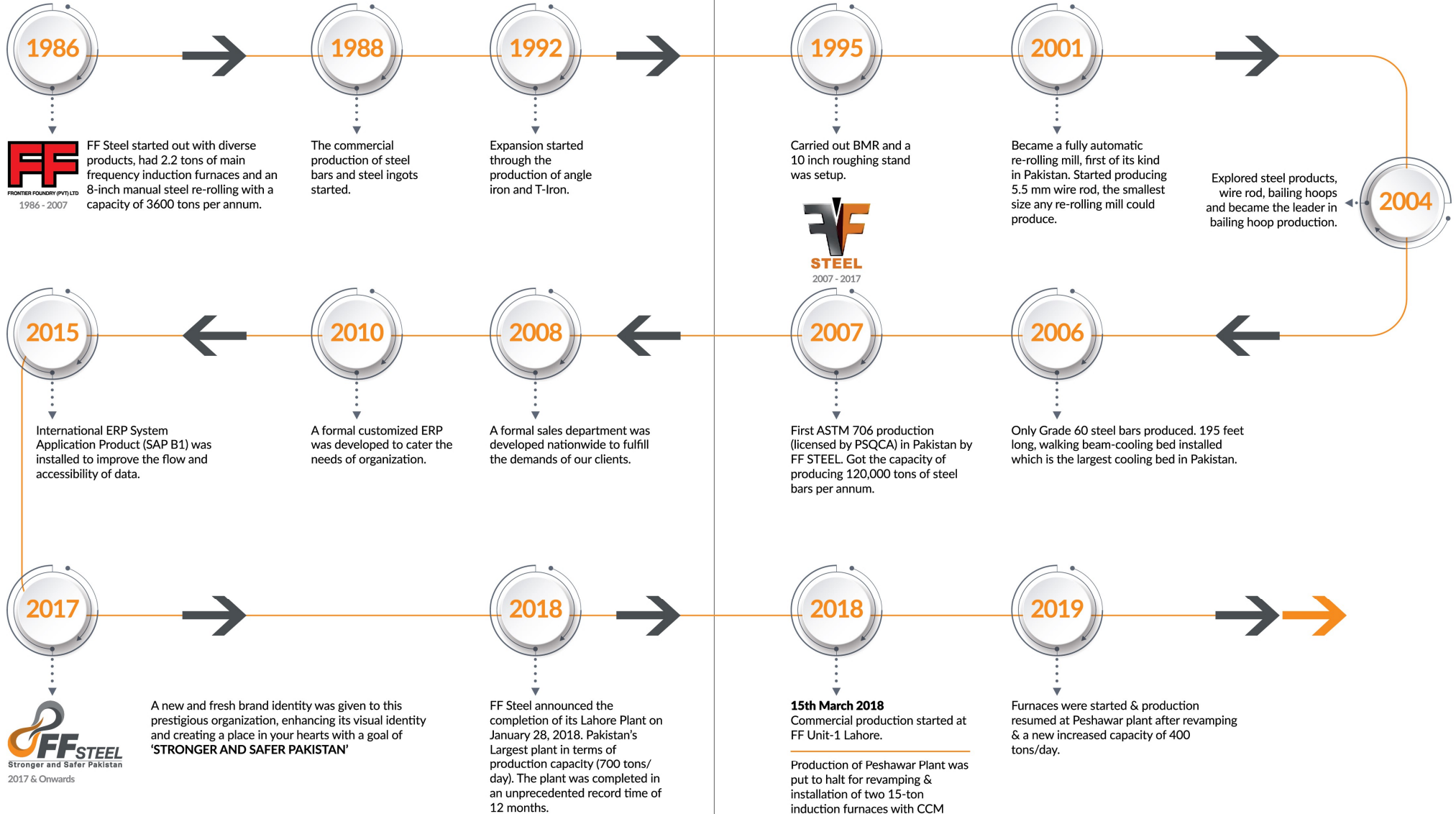
Mission

'To achieve this by the appropriate state of the art technologies, high performing people, examinant productivity and sustainable development.'

Our Core Values

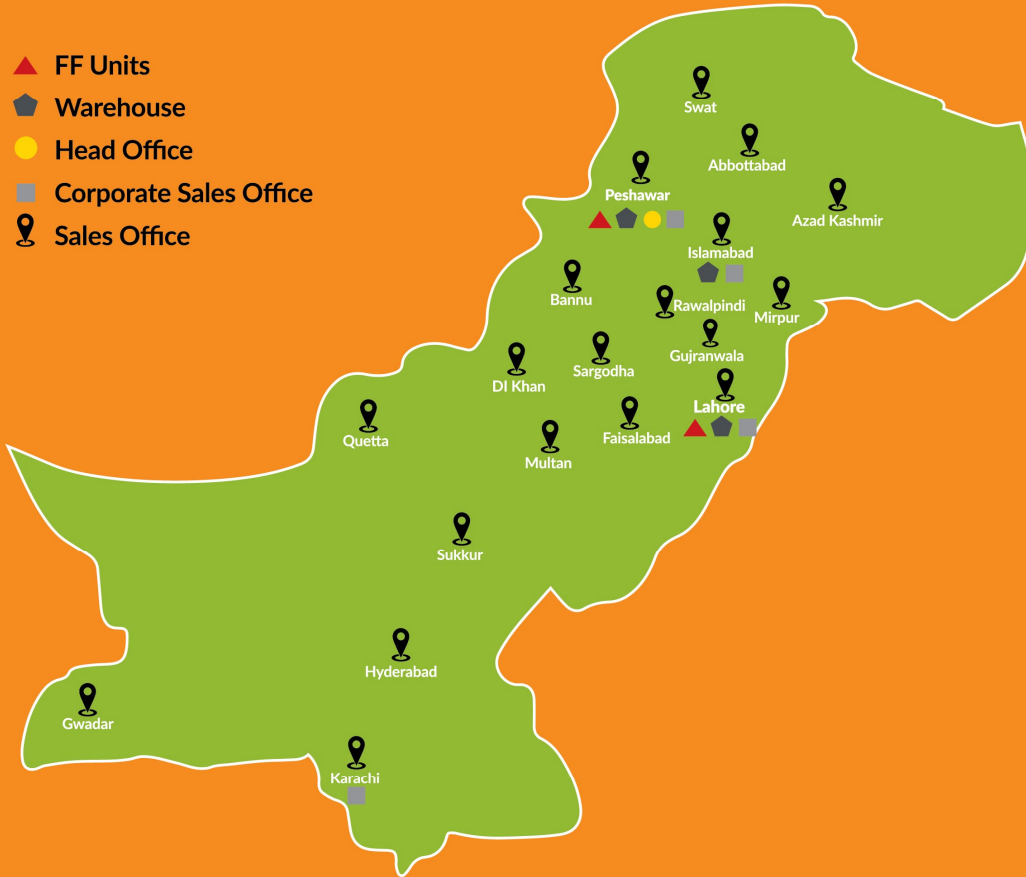
Our core values start from building safer and a high-quality product that contributes to a better Pakistan. We at FF STEEL, direct our efforts to handle high varying demands of our customers, maintaining the premium quality of our product. Our main focus is to provide outstanding steel with premium value to our customers. With our Grade 60 steel bars, we don't just make clients, we develop relationships that positively impact our customer's life. By constantly adapting new technological advances to maintain international standards, we promise to keep exceeding your expectations in better quality, cost effectiveness and nationwide availability.

Profile



Our Network

- ▲ FF Units
- Warehouse
- Head Office
- Corporate Sales Office
- 📍 Sales Office



Lahore FF Unit 1



Ground Breaking: 2017
 Production Capacity: 21,000 tons/month
 Employee Strength: 236
 Trial Production: February, 2018
 Commercial Production: March, 2018

Cooling Bed: Fully automated 66m (217 ft.) long cooling with double twin channel receiving steel from main & bypass production line.
Environmental Protection Initiative: Advance fuel burning valve system has been deployed to ensure complete combustion of fuel into non harmful components.

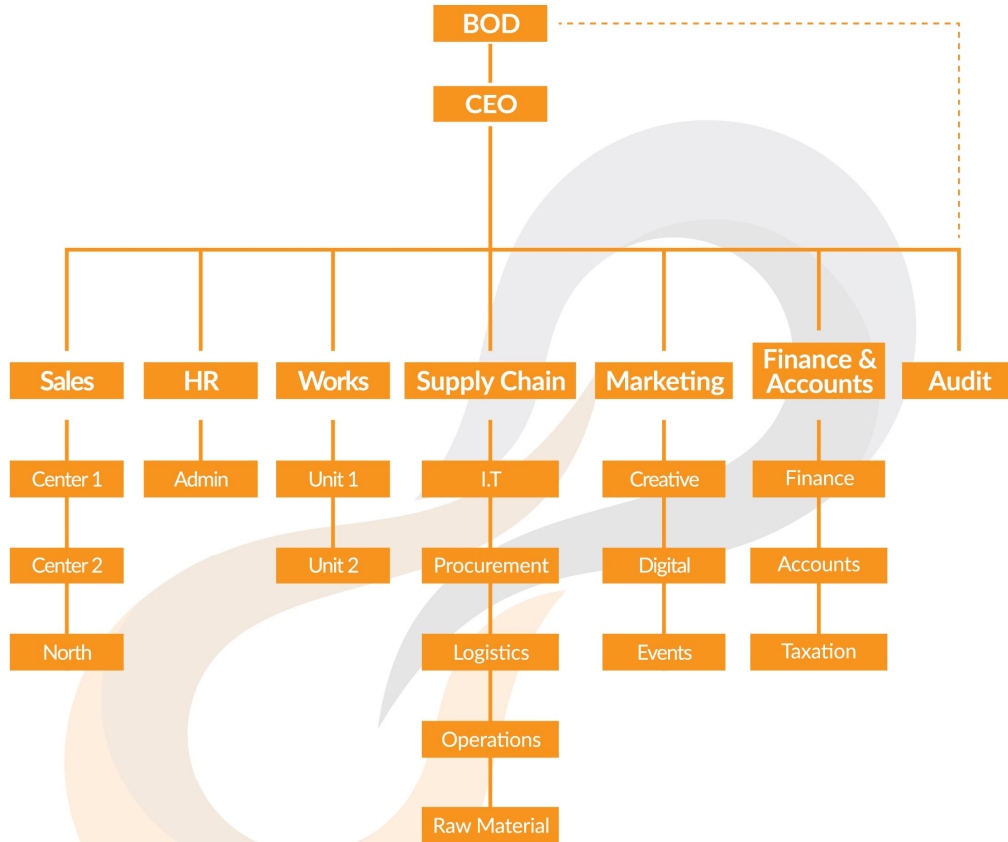
Peshawar FF Unit 2



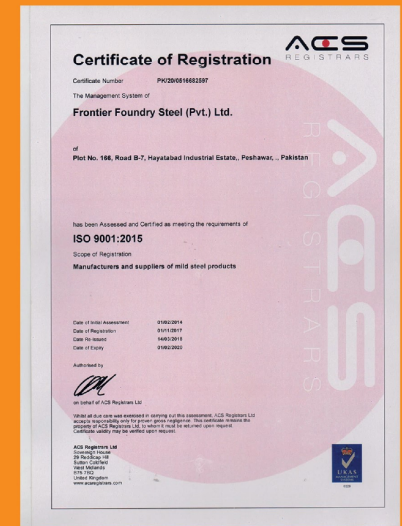
Ground Breaking: 1986
 Production Capacity: 12,000 tons/month
 Employee Strength: 112
 Trial Production: October, 2019
 Commercial Production: December, 2019

Cooling Bed: 43 meters (141ft.) long rack type cooling bed for natural cooling of steel rebars.
Environmental Protection Initiative: Air pollution control system has been deployed in melting furnace that removes hazard chemical from the smoke prior to releasing it through chimney.

Our Structure



Awards ISO Certification



Products

GRADE 60

Grade 60 Steel bars are tough, durable and have a high yield strength.

- **ASTM 615**
- **ASTM 706**
- **BS 4449:2005**

The only manufacturer to exclusively produce Grade 60 steel bars



Our Quality

FF STEEL is the only manufacturer to exclusively produce Grade 60 steel bars. Our in-house material testing lab constantly assures the perfect physical and chemical properties of every order. Every ten minutes a test is conducted, that is how persistent we are about quality check.

Spectrometer:

FF STEEL has deployed two state of the art spectrometers at each production unit to constantly check the material composition standards.

Universal Testing Machine (UTM):

Two UTM's at each location installed in Unit-1 & Unit-2 to test the tensile & ultimate strength of steel bars. In order to make sure that all the attributes of our product are up to the mark. We have a team of best civil engineers working in our quality department because they truly understand the end product usage.



Table 1: Deformed Bars Designation Numbers, Nominal Weights [Masses], Nominal Dimensions, and Deformation Requirements

Bar Designation No. ^A	Nominal weight, lb/ft	Nominal Dimensions ^B			Deformation Requirements, in. [mm]		
	Nominal kg/m	Diameter in. [mm]	Cross Sectional Area in. [mm ²]	Perimeter, in. [mm]	Maximum Average Spacing	Minimum Average Height	Maximum Gap (Chord of 12.5 % of Nominal Perimeter)
3 [10]	0.376 [0.560]	0.375 [9.5]	0.11 [71]	1.178 [299]	0.262 [6.7]	0.015 [0.38]	0.143 [3.6]
4 [13]	0.668 [0.994]	0.500 [12.7]	0.20 [129]	1.571 [39.9]	0.350 [8.9]	0.020 [0.51]	0.191 [4.9]
5 [16]	1.043 [1.522]	0.625 [15.9]	0.31 [199]	1.963 [49.9]	0.437 [11.1]	0.028 [0.71]	0.239 [6.1]
6 [19]	1.502 [2.235]	0.750 [19.1]	0.44 [284]	2.356 [59.8]	0.525 [13.3]	0.038 [0.97]	0.286 [7.3]
7 [22]	2.044 [3.042]	0.875 [22.2]	0.60 [387]	2.749 [69.8]	0.612 [15.5]	0.044 [1.12]	0.334 [8.5]
8 [25]	2.670 [3.973]	1.000 [25.4]	0.79 [510]	3.142 [79.8]	0.700 [17.8]	0.050 [1.27]	0.383 [9.7]
9 [29]	3.400 [5.060]	1.128 [28.7]	1.00 [645]	3.544 [90]	0.790 [20.1]	0.056 [1.42]	0.431 [10.9]
10 [32]	4.303 [6.404]	1.270 [32.3]	1.27 [819]	3.99 [101.3]	0.889 [22.6]	0.064 [1.63]	0.487 [12.4]
11 [36]	5.313 [7.970]	1.410 [35.8]	1.56 [1006]	4.43 [112.5]	0.987 [25.1]	0.071 [1.8]	0.540 [13.7]
14 [43]	7.65 [11.380]	1.693 [43.0]	2.25 [1452]	5.32 [135.1]	1.185 [30.1]	0.085 [2.16]	0.648 [16.5]
18 [57]	13.6 [20.240]	2.257 [57.3]	4.00 [2581]	7.09 [180.1]	1.580 [40.1]	0.102 [2.59]	0.864 [21.9]

^ABar numbers are based on the number of eights of an inch included in the nominal diameter of the bars [bar numbers approximate the number of millimeters of the nominal diameter of the bar]
^BThe nominal dimensions of a deformed bars are equivalent to those of a plain round bar having the same weight [mass] per foot [meter] as the deformed bar.

Permissible weight variation / Tolerance

Deformed reinforcing bars shall be evaluated on the basis of nominal weight [mass]. The weight [mass] determined using the measured weight [mass] of the test specimen and rounding in accordance with Practice E 29, shall be at least 94 % of the applicable weight [mass] per unit length prescribed in Table 1. In no case shall overweight [excess mass] of any deformed bar be the cause for rejection.

Table 2: Tensile Requirements

	Grade 60 [420]
Tensile Strength, min, psi [Mpa]	90 000 [620]
Yield Strength, min, psi [Mpa]	60 000 [420]
Elongation in 8 in [203.2 mm], min. %:	
Bar Designation Number	
3 [10]	9
4, 5 [13, 16]	9
6 [19]	9
7, 8 [22, 25]	8
9, 10, 11 [29, 32, 36]	7
14, 18 [43, 57]	7

Bar Designation Number	Pin Diameter for Bend Tests ^A
	Grade 60 [420]
3,4,5 [10,13,16]	3 ½ d ^B
6 [19]	5d
7, 8 [22, 25]	5d
9, 10, 11 [29,32,36]	7d
14, 18 [43,57] (90)	9d

Product Details

SIZE

3	10mm
4	12mm
5	16mm
6	20mm
7	22mm
8	25mm
9	28mm
10	32mm
11	36mm
12	40mm

OR

1 = 3.175mm | 1 inch = 25.4mm | 1 inch = 8

* Size is called sooter in local market



Table 1: Deformed Bars Designation Numbers, Nominal Weights [Masses], Nominal Dimensions, and Deformation Requirements

ASTM 706

Bar Designation No. ^A	Nominal Weight, lb/ft Nominal Mass, kg/m	Nominal Dimensions ^B			Deformation Requirements, in. [Mm]		
		Diameter in. [mm]	Cross Sectional Area in. ² [mm ²]	Perimeter, in. [mm]	Maximum Average Spacing	Minimum Average Height	Maximum Gap (Chord of 12.5% of Nominal Perimeter)
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Permissible weight variation / Tolerance

Deformed reinforcing bars shall be evaluated on the basis of nominal weight [mass]. The weight [mass] determined using the measured weight [mass] of the test specimen and rounding in accordance with Practice E 29, shall be at least 94 % of the applicable weight [mass] per unit length prescribed in Table 1. In no case shall overweight [excess mass] of any deformed bar be the cause for rejection.

Table 2: Tensile Requirements

	Grade 60 [420]
Tensile Strength, min, psi [Mpa]	80000 [550]
Yield Strength, min, psi [Mpa]	60000 [420]
Elongation in 8 in [203.2 mm], min. %:	
Bar Designation Number	
3, 4, 5, 6 [10, 13, 16, 19]	14
7, 8, 9, 10, 11 [22, 25, 29, 32, 36]	12
14, 18 [43, 57]	10

Tensile strength shall not be less than 1.25 times the actual yield strength.

Table 3 Bend Test Requirements

Bar Designation Number	Pin Diameter for Bend Tests
	Grade 60 (420)
3,4,5 [10,13,16]	3d
6 [19]	4d
7,8 [22,25]	4d
9,10,11 [29,32,36]	6d
14,18 [43,57] (90)	8d



BS 4449

Table 1: Cross Sectional Area and Mass

Nominal Size	Cross Sectional Area area mm ²	Mass per Meter Run kg/m	Mass per Foot Run gram/ft
6 ¹	28.3	0.222	67.67
8	50.3	0.395	120.40
10	78.5	0.617	187.76
12	113	0.888	270.66
16	201	1.58	481.28
20	314	2.47	751.64
25	491	3.854	1174.70
32	804	6.31	1924.20
40	1257	9.864	3006.55
50 ¹	1963	15.413	4697.88

Permissible weight variation / Tolerance

Nominal Size mm	Tolerance on Mass per Meter Run %
≤8mm	± 6
>8mm	± 4.5

Tensile Properties

	Yield Strength MPa	Tensile/Yield Strength Ratio, Rm/Re	Total elongation at max force Agt
B500A	500	1.05	2.5
B500D	500	1.08	5
B500C	500	7,1.15,<1.35	7.5

Chemical Composition (Max% by mass)

	Carbon	Sulphuric	Phosphorus	Nitrogen	Copper	Carbon
Cost analysis	0.22	0.05	0.05	0.012	0.80	0.50
Product analysis	0.24	0.055	0.055	0.014	0.85	0.52

- a) Rm/Re characteristic is 1.02 for sizes below 8mm
 - b) Agt characteristic is 1.0% for size below 8mm
- Values of Re specified are characteristic with p=0.95
- Value of Rm/Re and Agt specified are characteristic with p=0.90
- Calculate the values of Rm & Re using nominal cross sectional area.

The absolute maximum permissible value of yield strength is 650 MPa

- a) It is permitted to exceed max value of carbon by 0.03% by mass, provided that carbon equivalent value is decreased by 0.02% by mass.

- b) High nitrogen contents are permissible if sufficient quantities of nitrogen binding elements are present.

$$C_{eq} = \frac{C+Mn}{6} + \frac{Cr+Mo+V}{5} + \frac{Ni+Cn}{15}$$



Our Process



Scrap Import



Factory Transport

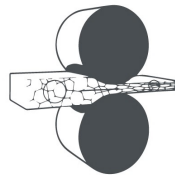


Continous Casting Machine (CCM)



Direct Hot Rolling

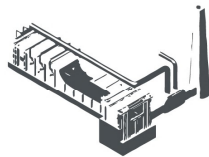
The mixture is converted into a solid state solution at 1100-1260° C



Roughing Mill



Billet Saved for Later Use



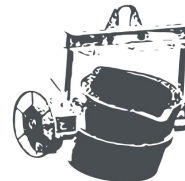
Reheating Furnace (RHF)



Scrap Segregation

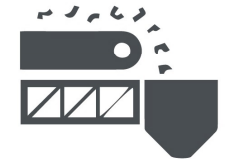


Vibro Feeder



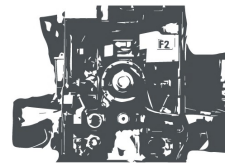
Ladle

Chemical Composition of Magnesium + Silicon + Aluminium

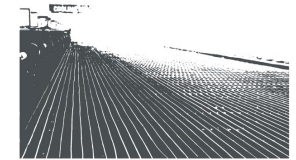


Melting Furnace

(Automatic Mill & Furnace)



Finishing Mill



Cooling bed



Dispatch



Finished Goods

SCADA

Supervisory Control And Data Acquisition

FF Steel is proud to have the largest team of engineers in the steel industry. This team controls the manufacturing process through the world's latest available technology i.e. Supervisory Control And Data Acquisition (SCADA).

This automation resulted in higher productivity, better quality & optimal production. The key attribute of SCADA system is its ability to perform a supervisory operation over a variety of other proprietary devices. The SCADA concept was developed as a universal means of remote access to a variety of local control modules, which could be from different manufacturers along with access through standard automation protocols. In practice, large SCADA systems have grown to become very similar to distributed control systems in function, but using multiple means of interfacing with a plant. They can control large-scale processes that can include multiple sites and work over a large distance as well as small distance.



SAP

In this era of technological advancement, FF Steel strongly believes in adoption of latest techniques, equipment's and processes for its business. In line with this endeavor, FF Steel is using SAP Business One, a promising ERP tool, for its end-to-end business operations.

SAP Business One is an affordable and well integrated enterprise resource planning solution designed to enable growing / medium (SME's) and large enterprises with subsidiary operations to better manage their entire company / group portfolios. SAP B1 provides one simple solution that streamlines business processes, provides real time information, and helps boost overall business performance.

We are in a drive to make our company's environment paperless in sales, procurement, production, inventory & finance and SAP is the right tool for it.

Custom Build CRM & Sales Application

Our sales force is equipped with "Android" through which they can view by just a click of a button; all pertinent information related to their business i.e. rates, customer history, order status and can generate new leads of customers while performing their job at remote areas.

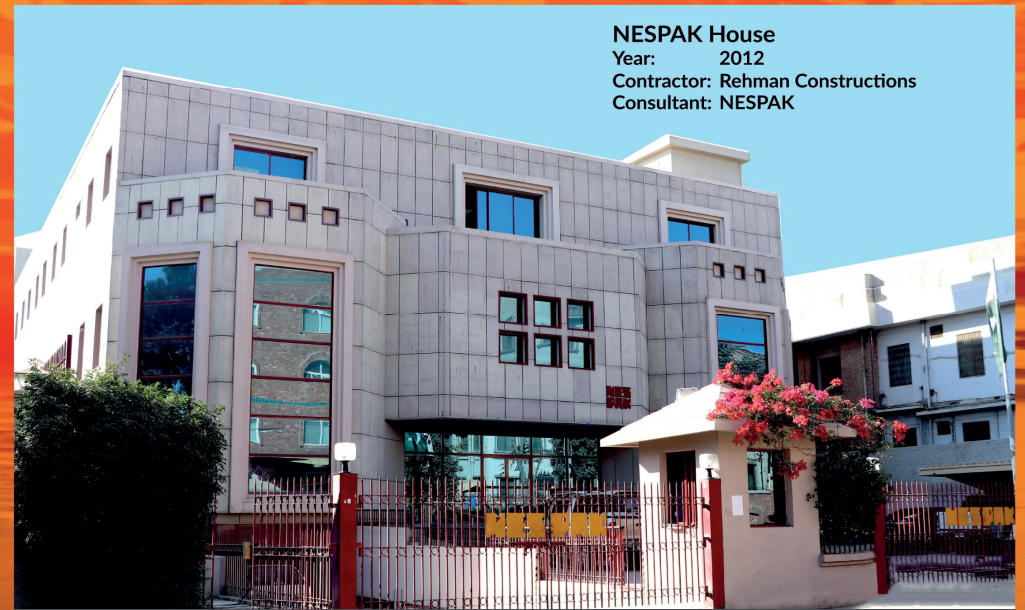


FF STEEL Projects



Shaukat Khanum Cancer Hospital
Year: 2015
Contractor: Ravi Constructions
Consultant: Wings Consultants

Shaukat Khanum Cancer Hospital (Peshawar)



NESPAK House
Year: 2012
Contractor: Rehman Constructions
Consultant: NESPAK

NESPAK House (Peshawar)



Kalma Chowk Underpass
Year: 2013
Contractor: Habib Constructions
Consultant: NESPAK

Kalma Chowk Underpass (Lahore)



Abdul Wali Khan University
Year: 2009
Contractor: Sahil Builders
Consultant: ACE

Abdulwali Khan University (Mardan)



Neelum Jhelum Hydropower
Year: 2018
Contractor: CGGC
Consultant: CGGC

Neelum Jhelum Hydropower (Muzaffarabad AK)



Warsak Dam
Contractor: Khyber Grace
Consultant: NESPAK

Warsak Dam (Peshawar)



DHA Phase VIII
 Contractor: Habib Rafique Private Ltd.
 Consultant: DHA

DHA Phase VIII (Lahore)



Coal Power Project Sahiwal
 Year: 2017
 Contractor: Habib Rafique Private Limited
 Consultant: NESPAK

Coal Power Project (Sahiwal)



Mall of Multan
 Contractor: ZKB/SMC & QBA
 Consultant: Multan Development Authority

Mall of Multan (Multan)



Metro Bus
 Year: 2017
 Contractor: National Logistics Cell

Metro Bus (Multan)



Metro Bus
 Year: 2013
 Contractor: Sarwar & ZKB
 Consultant: NESPAK

Metro Bus (Lahore)



NUST
 Year: 2008
 Contractor: Izhar Pvt.Ltd
 Consultant: Self

NUST (Islamabad)



Bab-e-Khyber Flyover
 Year: 2016
 Contractor: National Logistics Cell

Bab-e-Khyber Flyover (Peshawar)



World Trade Centre
 Year: 2007
 Contractor: Al Ghurair Giga
 Consultant: Self

World Trade Centre (Islamabad)

Royal Orchard
Year: 2019
Contractor: Habib Rafiq Pvt. Ltd.



Royal Orchard (Multan)

Lignum Tower
Year: 2012
Contractor: Al Ghurair Giga
Consultant: Al Ghurair Giga



Lignum Tower (Islamabad)

Quaid-e-Azam University
Year: 2016
Contractor: Al Ghurair Giga



Quaid-e-Azam University (Islamabad)

Allama Iqbal International Airport
Year: 2016
Contractor: Izhar Group of Companies & Sinaco Engineering



Allama Iqbal International Airport (Lahore)

Clients

Armed Forces

Such as:

- AFOHS
- CWO
- DGDP
- DGP ARMY
- DOHA
- DOP AIR
- DOP NAVY
- DHA
- FWO
- NLC
- U.S Army COE
Afghanistan Engineer
District

Government of Pakistan

Such as:

- C & W
- CDA
- NESPAK
- Pak PWD
- PDA
- Punjab Building Department
- Punjab Workers Welfare Board

Multinational Organizations

Such as:

- Al Ghurair Giga
- China State Construction
- EMAAR Pakistan
- Engineering Services Company

National Organizations

Include:

- Allied Consulting
- Commander Builders
- Crescent Construction
- Descon
- D. Baluch- Skyways
- Elite Engineers
- Echo West International
- EA Consulting
- Gondal Construction
- Global Consultancy
- Habib Rafiq
- Izhhar Construction
- Ismail Construction
- Karcon
- Kingcrete Builders

- Midjac
- M A Aleem Khan & Sons
- Mishal Sania
- Professional Engineering Consultants
- Principle Engineers & Constructors
- Premium Engineering
- Real Estate & builders
- Red Sun Associates
- Sachal
- SKB Engineering & Construction
- Sarwar & Company
- Samsons Group of Companies
- Shaz Construction
- Vector Consultants
- Wings Consultants
- Zahir Khan & Brothers
- 3W Systems



FWO



AL GHURAIR GIGA
Pakistan (Private) Limited

PRINCIPAL
ENGINEERS & CONSTRUCTORS



WINGS
CONSULTANTS

Vector
CONSULTANTS



PAKISTAN ARMED FORCES



Academia Linkages

R&D/Industry Academia Linkages

University of Engineering & Technology:

Our relationship with UET is something we are proud of, The development of ASTM 706 was a challenge for FF Steel as no technical support was available for the development of this product in Pakistan. It was at this point when industry academia proved its worth for FF Steel and Dr. Irfan Mufti, Dean Mechanical Engineering Department UET, Peshawar joined hands and led a research team to conduct a series of production tests. After ten weeks of experimentation, finally ASTM 706, a steel bar with strength above 550 MPA (Grade-75) and elongation of more than 18% was achieved.

A paper on the same subject was published and presented in the 3rd Annual Industry Meets Academia Conference, where the authors were Dr. M.A. Irfan Mufti (lead author) and Engr. Zarak K. Khattak, CEO FF Steel (co-author).

With the help of Dr. Irfan Mufti, FF Steel is exploring new opportunities in terms of operational efficiencies. FF Steel & UET Teams are working together on enhancing the efficiency of Blowers, Cooling Towers, Motors, Compressors & Furnaces. The result of this study will be applied to the instruments & machinery at FF Steel & a paper will be published for the same to help others in achieving similar goals.



Institute of Management Sciences:

FF Steel is constantly helping the students of IMSciences in their final year projects. At the end of each semester, the final year students submit their proposal that is of mutual interest to FF Steel and the student's academic requirements. This helps the students to perform real time analysis and research on production & processes. This activity is not only linked to production side but also to the management of FF Steel.

City University:

In an effort to facilitate academic institutes, FF Steel & City University joined hands for the following consortium; the students of City University are deployed on internship projects at FF Steel. Both FF Steel & City University are jointly writing a case study on "An entrepreneurial SME's journey to a corporate LSM". FF Steel is developing its human resource jointly with the help of City University's corporate training program and the engineering students of City University (as well as other Universities) are taken on board for a comprehensive program designed for students to understand the details of steel rebar making process and its quality attributes. This program is run by FF Steel as part of a credit course at various universities.

**National University of Science & Technology (NUST):**

FF Steel believes in developing the upcoming generation and takes initiatives to ensure that this goal is achieved at any cost. Keeping in mind this ideology, FF Steel provides training to the faculty of NUST in areas such as SCADA, Administration and maintenance of PLC, SAP & Quality Control in order to ensure that the faculty can transfer this latest information to students.

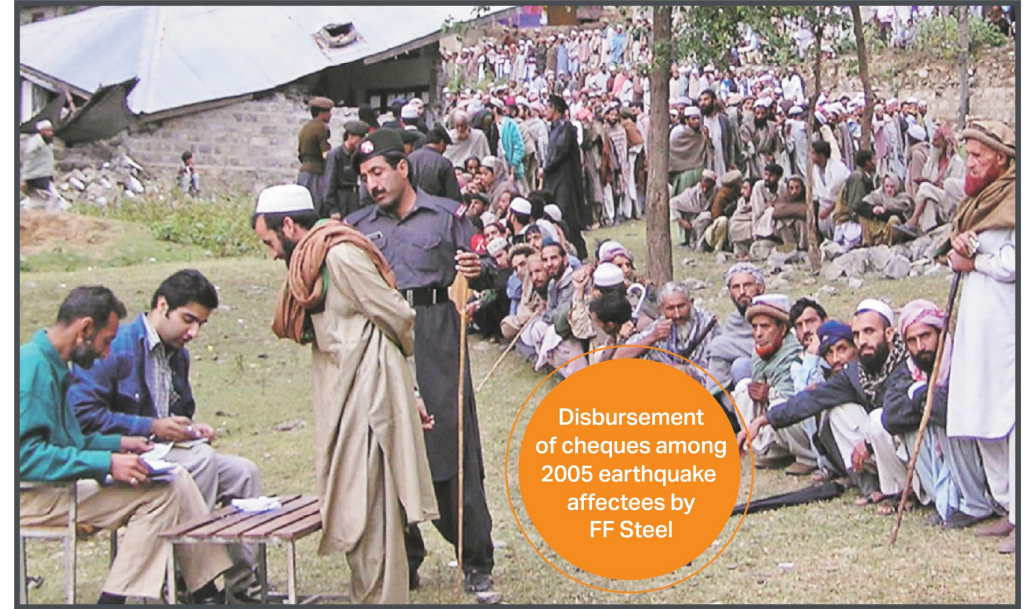
University Visits:

Under the umbrella of industry visits, students from different universities such as Bahria University, CECOS University, UET & FAST University visit FF Steel to understand the process of steel making and the backhand working that takes place to complete the process. Such visits comprise of comprehensive sessions on the ERP i.e. SAP, CRM our custom built customer relationship management software and many other aspects including the production and supply chain.



Helping Others

There is no exercise better for the heart than reaching down and lifting people up.



Disbursement of cheques among 2005 earthquake affectees by FF Steel



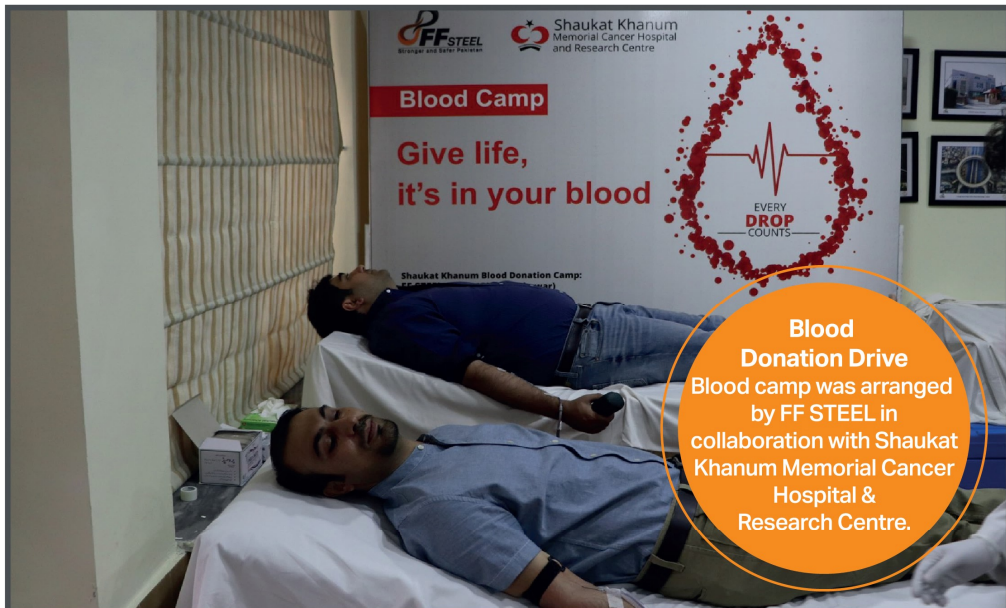
Chairman FF STEEL personally leading reconstruction of collapsed motorway bridge in 2010 floods



Plantation Drive
 As part of our CSR Drive FF Steel plants trees and develops green belts every year, in 2018 FF Steel planted 200 trees in capital city Islamabad in collaboration with CDA.



Road Safety Campaign
 Road Safety training was conducted at FF STEEL Islamabad Office in collaboration with National Highway & Motorway Police.



Blood Donation Drive
 Blood camp was arranged by FF STEEL in collaboration with Shaukat Khanum Memorial Cancer Hospital & Research Centre.



**Pakistan;
A bond that
lasts forever**

Stronger & Safer Pakistan

Stronger & Safer Pakistan, FF Steel's flagship program destined to deliver the promised commitment for building safer infrastructures, reinforced interaction among key stakeholders, improved building health & safety measures, legislated policies for better infrastructure development & endorsing a behavioral change among communities for using quality products in daily life.

Our devotion towards building a Stronger & Safer Pakistan starts from our very own house, FF Grade 60 steel bars. We are not just making this product because of its unparalleled strength but at the core of our heart we believe and we deliver something that we are sure of to be the best in Pakistan.



Location: Corporate Sales Office Islamabad
 Audience: Steel Fixers
 Event: Stronger & Safer Pakistan Awareness Session



Location: IEP Islamabad
 Audience: PEC Engineers
 Event: Stronger & Safer Pakistan Awareness Session



Location: Faisalabad
 Audience: Officials Faisalabad Development Authority
 Event: Stronger & Safer Pakistan Awareness Session



Location: Lahore
 Audience: Steel Fixers
 Event: Stronger & Safer Pakistan Awareness Session



Location: Islamabad
 Audience: Students & General Public
 Event: Construction Material Exhibition



Location: Islamabad
 Audience: Students & General Public
 Event: Construction Material Exhibition



Location: IAP Islamabad
 Audience: Architects
 Event: Stronger & Safer Pakistan Awareness Session



Location: IAP Islamabad
 Audience: Architects
 Event: Stronger & Safer Pakistan Awareness Session

Meet The Makers

