



# COMPANY PROFILE AND PRODUCT CATALOGUE



Certificate Reg. no. 04100 2004 7182-E3



#8, 27<sup>th</sup> Cross, Banashankari 2<sup>nd</sup> Stage, Bangalore-560 070, India

**Tel:** +91-80-2671 7078, 2671 1733, **Fax:** +91-80-2671 3138

**Email:** mail@armaticengineering.com, **Web:** www.armaticengineering.com

- ✦ Established in 1968
- ✦ Leading designers of custom-built material handling equipment in India
- ✦ Expertise in design and innovation of new products
- ✦ Mainly cater to steel industry
- ✦ About 60% market share in India
- ✦ Designed and manufactured equipments upto 180 ton capacity (spreader beam – supplied to Essar steel, Hazira)
- ✦ Large product profile and customer base

# PRODUCT RANGE

- ✦ C-hooks – with rotation, container loading etc
- ✦ Vertical Coil tongs – single and double rim
- ✦ Coil lifters – rack and pinion & parallelogram
- ✦ Convector plate lifters
- ✦ Transfer Cars – electrical and battery operated
- ✦ Slab, Ingot, Billet, Bloom Tongs
- ✦ Up-down enders (tilters) – mechanical & electro - hydraulic
- ✦ Electro-hydraulic Cactus and rope grabs
- ✦ Sheet pack & plate lifters
- ✦ Spreader Beams
- ✦ Truck mounted hydraulic cranes
- ✦ Stack turnover device - Hydraulic
- ✦ Roll lifting tong
- ✦ Job rotators

## C-Hooks

*Material:* Hot rolled, cold rolled, color coated, slitted coils, etc

*Capacities:* Upto 45MT,

*Temperature:* Upto 800°C

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Container loading



With built-in parking stand



With Rotation



Hot Rolled Coils



## Vertical Coil Tongs

*Material:* Hot rolled, cold rolled, color coated, slitted coils, etc

*Capacities:* Upto 40MT,

*Temperature:* Upto 800°C



## Convactor Plate Lifter

*Material: Convactor Plates*

*Capacities: Upto 5MT,*

*Temperature: Upto 250°C*

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## Coil Lifter

*Material:* Hot rolled, cold rolled, color coated, slitted coils, etc

*Capacities:* Upto 32MT,

*Temperature:* Ambient



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## Parallelogram Coil Lifter

*Material:* Hot rolled, cold rolled, color coated, slitted coils, etc

*Capacities:* Upto 20MT,

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## Electro-Hydraulic Cactus Grab

*Material: Steel Scrap,  
Capacities: Upto 8CbM,  
Temperature: Ambient*

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## Miscellaneous Grab

*Material:* Miscellaneous,

*Capacities:* custom built

*Temperature:* Ambient

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## Hot plate stack lifter & trolley

*Material: Stainless Steel Plates,*

*Capacities: Upto 25MT,*

*Temperature: Upto 1200°C*

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## Slab Tong

*Material: Steel Plates,  
Capacities: Upto 30MT,  
Temperature: Upto 1200°C*

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## Motorised Sheet Pack Lifter

*Material: Sheet Packs,  
Capacities: Upto 15MT,  
Temperature: Ambient*

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## Tripoid Grab

*Material: 5.5M diameter forged rings,*

*Capacities: Upto 10MT,*

*Temperature: Upto 1200°C*

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## Coil Transfer Cars

*Material: Coils, sheets, etc*

*Capacities: Upto 85MT,*

*Temperature: Ambient*



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## Transfer car with scissor lift

*Material:* Coils, Rolls, etc

*Capacities:* Upto 10MT,

*Temperature:* Ambient

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## Battery operated Transfer car

*Material: Coils, sheets, etc*

*Capacities: Upto 60MT,*

*Temperature: Ambient*

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## Pipe and Billet Transfer Cars

*Material: Pipes, Billets, etc*

*Capacities: Upto 85MT,*

*Temperature: Ambient*

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# Coil Transfer Cars

*Material: Coils,*

*Capacities: Upto 35MT,*

*Bottom open to facilitate coil car to lift coils*



35T Coil Transfer car

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35T Coil Transfer car



## Up-down enders (tilters)

*Material: Coils, sheets, etc*

*Capacities: Upto 40MT,*

*Temperature: Ambient*

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## Spreader Beams

*Material: Sheets, plates, tubes, etc*

*Capacities: Upto 185MT,*

*Temperature: Ambient*



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## Miscellaneous Tongs and beams

*Material: Stone, Rails, sheets, etc*

*Capacities: Custom built,*

*Temperature: Ambient*

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Stone



Ingot



1 rail



1 rail



3 rails



50T lifting beam



120T lifting beam



Log



Coils



## Ingots / Billet Tongs

*Material: Steel Ingots / Billets,*

*Capacities: Upto 25 MT,*

*Temperature: Upto 900°C*

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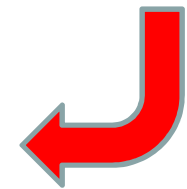


## Ingot / Billet Tongs

*Material: Steel Ingots / Billets,  
Capacities: Upto 10MT,  
Temperature: Upto 900°C*



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## Crucible lifting Tong

*Material: Crucible ladle*

*Capacities: Upto 17.5TMtr,*

*Temperature: Upto 600°C*

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## Roll Tong

*Material: Work roll and back up roll*

*Capacities: Upto 40MT,*

*Temperature: Ambient*

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## Ladles and Charging Buckets

*Material: Steel scrap*

*Capacities: Upto 16MT,*

*Temperature: Ambient*

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## Graphite Handling

*Material: Graphite Electrodes*

*Capacities: Upto 12MT,*

*Temperature: Upto 1200°C*

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## Stack Turnover Device

*Material: Sheets*

*Capacities: Upto 10MT,*

*Temperature: Ambient*



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4T stack turnover device

## Plate Clamps

*Material: Steel Plates*

*Capacities: Upto 12MT,*

*Temperature: Ambient*



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## Equipments ready for despatch



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## Equipments ready for despatch

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C-hooks



## Equipments ready for despatch



80T Coil Transfer car for slitted coils



80T Coil Transfer car for Flat products

## Equipment's loaded on trucks

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## Equipment's loaded on trucks



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## Manufacturing Unit

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# Other sectors:



## **Automobile sector:**

Tata Motors  
Toyota  
Nissan  
Ford  
Suzuki  
Renault

## **Consultants:**

Mecon  
M N Dastur  
Larsen and Toubro

## **Inspection Agency:**

Rites  
SGS  
Quest

## **Engineering sector:**

Sumikin Busan - Japan  
India steel sumit – Sumitomo group - Japan  
Daneili - Italy  
Kone Cranes - Finland  
SMS Demag - Germany  
SMS Siemag - Germany  
Posco – Korea  
MHE demag – Malaysia & Singapore

## **Government agencies:**

Hindustan Shipyard  
Indian institute of Science  
Indian Institute of Astrophysics  
BHEL  
Railways, Defense

## Customer reference



click here for  
customer list

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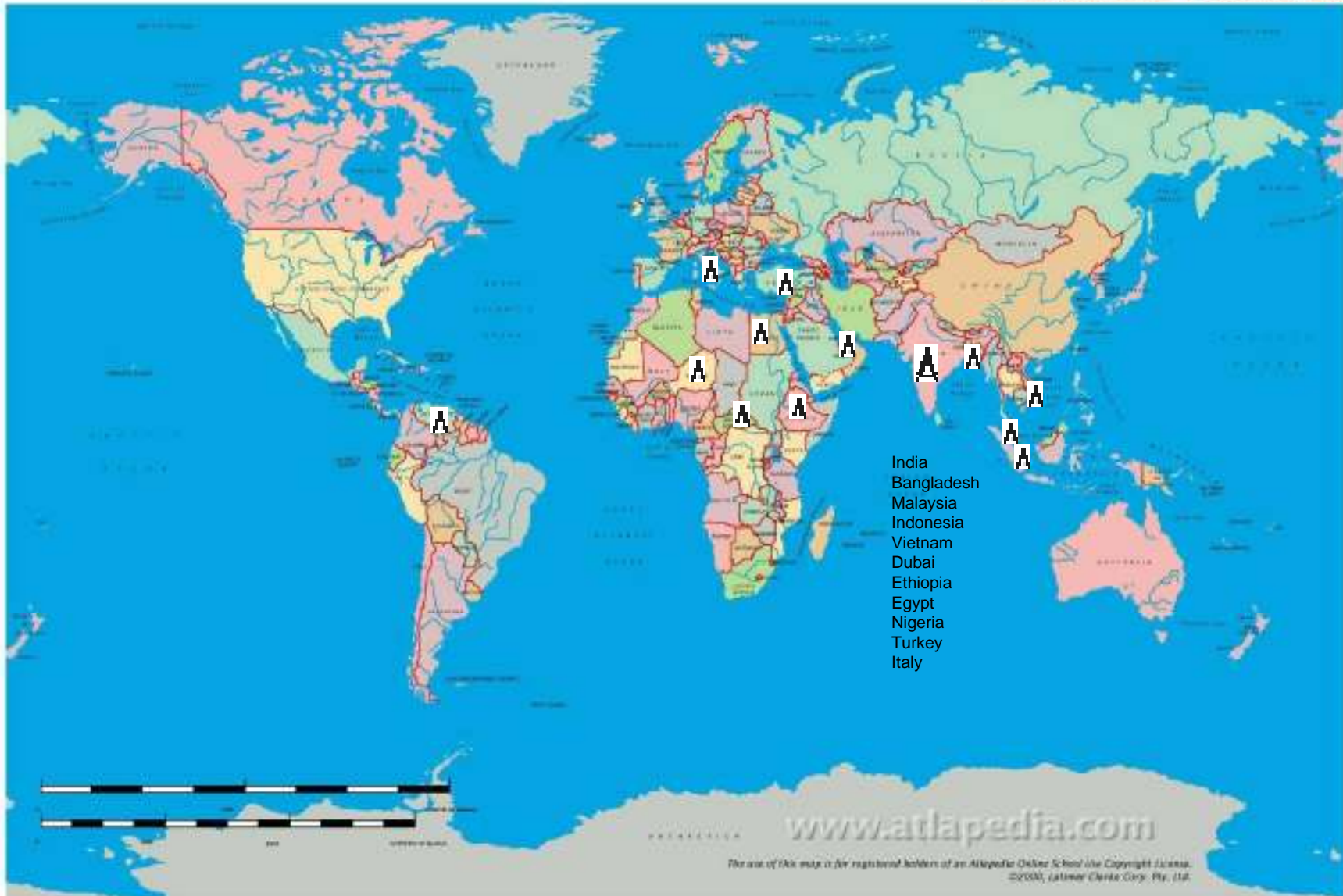


STEEL AUTHORITY OF INIDA LIMITED



## Customer base

**ARMATIC**<sup>®</sup>  
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# ISO Certificate



## CERTIFICATE

The TÜV CERT Certification Body  
for QM Systems of RWTÜV Systems GmbH  
hereby certifies in accordance with TÜV CERT  
procedure that

**ARMATIC**  
ENGINEERING PRIVATE LIMITED  
# 8, 51ST Industrial Area, 27<sup>th</sup> Cross,  
Banashankari 2<sup>nd</sup> Stage,  
Bangalore - 560 076, India

has established and applies a quality system for  
Design, Manufacture, Supply and Servicing of Material Handling  
Equipment and Crane Electrification Systems

An audit was performed, Report No. ZS-2610/2004

Proof has been furnished that the requirements according to

ISO 9001 : 2000

are fulfilled. The certificate is valid until 28 July 2007

Certificate Registration No. 04100 2004 7182 - E3



Revised: 21.07.2004



The TÜV CERT Certification Body for QM Systems  
of RWTÜV Systems GmbH

## CERTIFICATE



Management system as per  
DIN EN ISO 9001 : 2000

In accordance with TÜV CERT procedures, it is hereby certified that

**ARMATIC ENGINEERING PRIVATE LIMITED**  
# 8, 51ST Industrial Area, 27<sup>th</sup> Cross,  
Banashankari II Stage,  
Bangalore - 560 076, India




applies a quality system in line with the above standard for the following scope:

**Design, Manufacture and Supply of Material Handling Equipments**

Certificate Registration No. 04 100 047182 E3  
Valid Report No. ZS-2610/2004

Valid until 28.07.2009  
Initial certification 21.07.2004

  
TÜV CERT Certification Body  
at TÜV NORD CERT GmbH

Issued: 26.11.2007

This certificate was conducted in accordance with the TÜV CERT auditing and certification  
procedures, which is subject to regular surveillance audits.  
TUV India Pvt. Ltd., 101, Ridge Plaza - II, C-101, Main, Connaught Place, Mumbai - 400 002, India - [www.tuvindia.co.in](http://www.tuvindia.co.in)

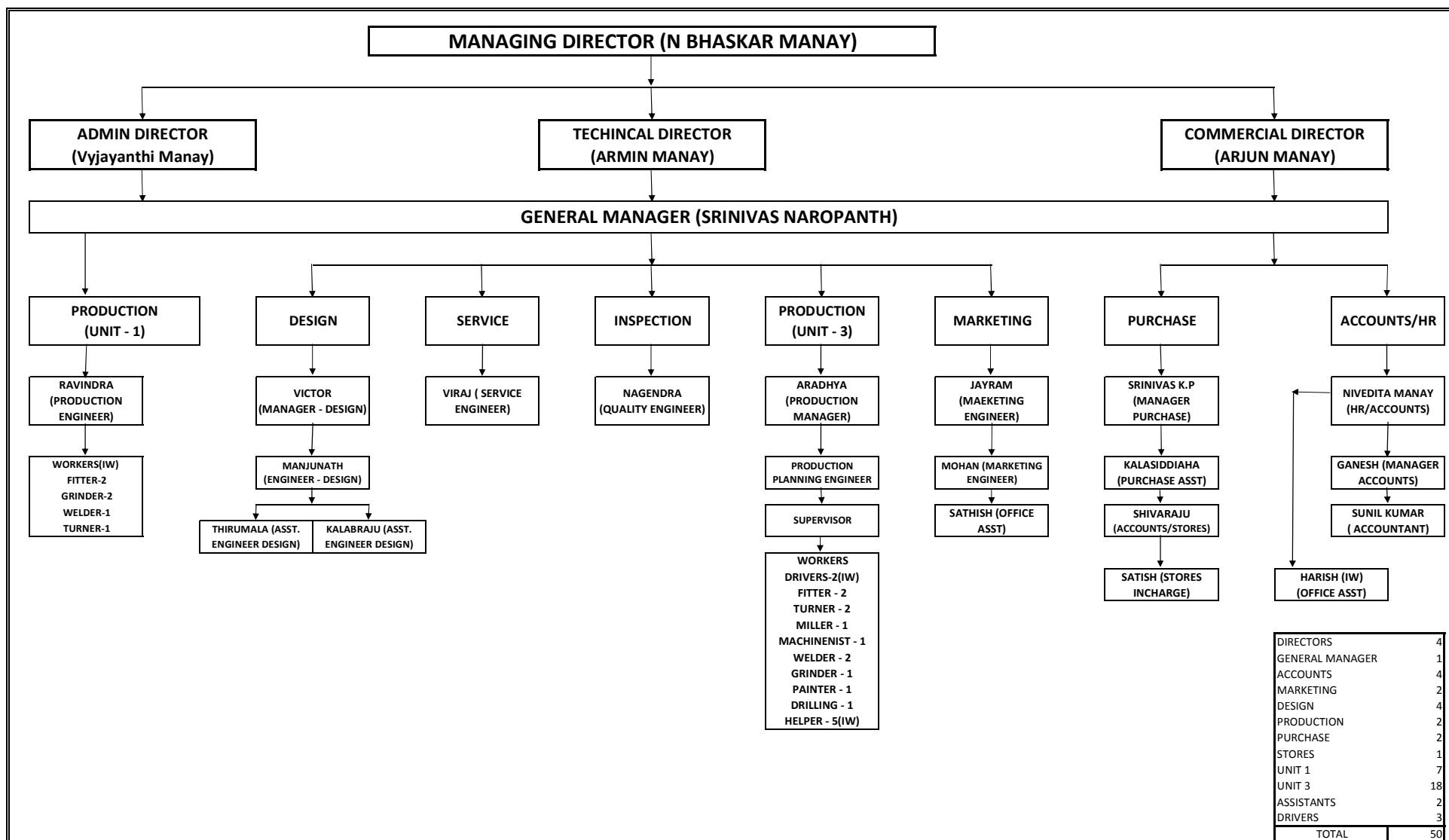




## Machinery list

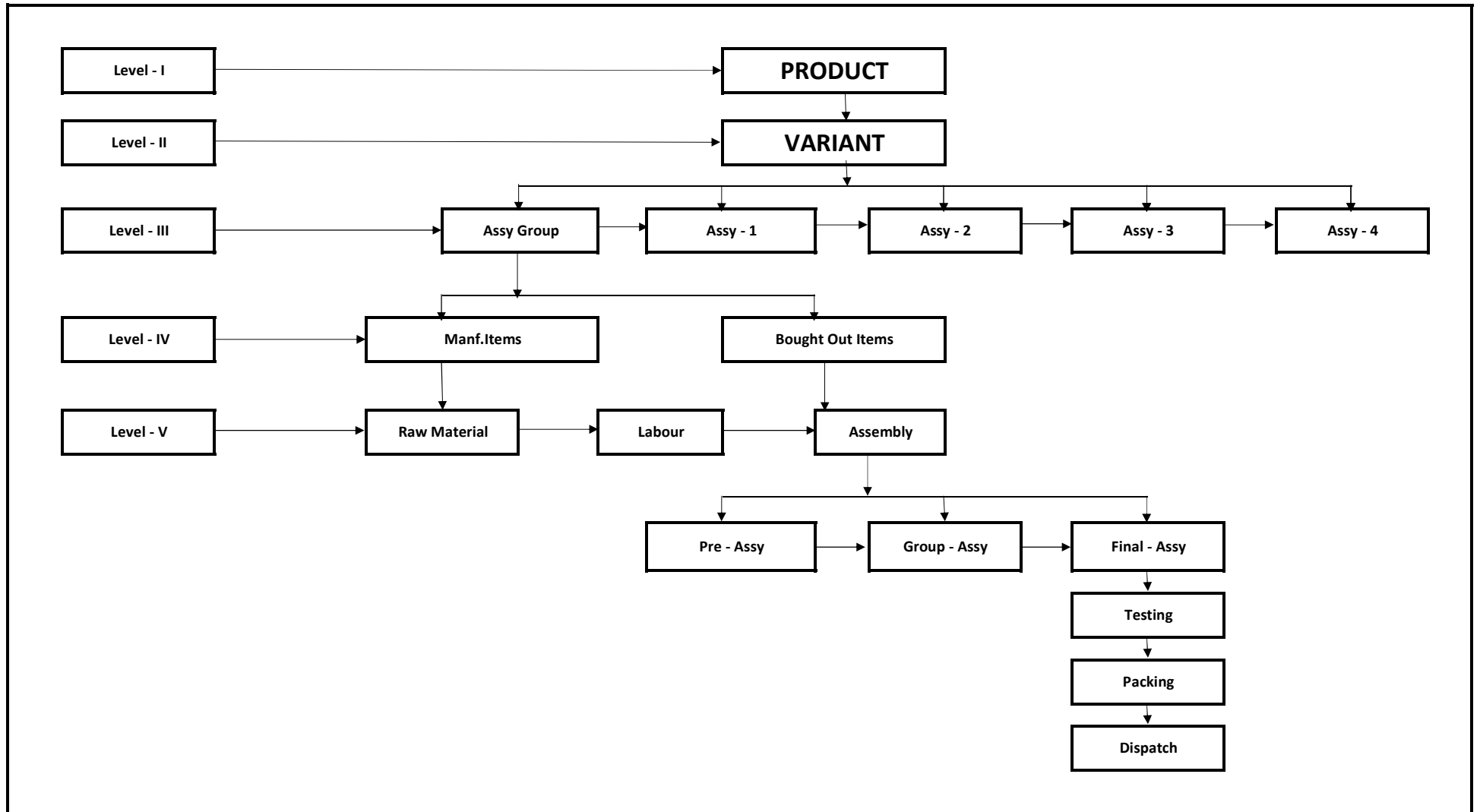
• Conventional centered geared Lathe	2 nos.	• Universal Milling machine	
• Shaping – stroke 600mm –	2 nos.	(900 & 700 bed size)	2 nos
• Radial Drilling – MT5		• Arc welding machine 600 amps	4 nos.
spindle 2.5"	1 no.	• 8 shapped rolling machine	1 no.
spindle 1.5"	1 no.	• Drilling ½"	2 nos.
• Co2 Welding 600 amps	4 nos.	• Double wheel bench grinder	1 no.
• Hacksaw cutting 300mm	2 nos.	• <b>82.5KVA generator</b>	<b>1 no.</b>
• Profile cutting	3 nos	• Welding transformer	5 no.
• Bench Grinder	3 nos.	• Avery weighing Scale	
• <b>40KVA diesel generator</b>	1 no.	(300 kgs & 1000 Kgs)	1 no. each
• Fly press	3 nos	• Electric Hoist 5T & 2T	1 no. each
• Crane weighing scale 20T	1 no.	• Chain Pulley block (5T & 2T)	1 no. each
• Air Compressor	1 no.	• <b>Hardness tester</b>	<b>1 no.</b>
• <b>EOT crane 5T capacity</b>	<b>2 no.</b>		
• <b>EOT crane 16T capacity</b>	<b>5 no.</b>	<b>Area of existing manufacturing unit</b>	
• Hand grinding machine AG 7	10 nos	12M x 18M = 216.0 SqM – Unit 1	
• Measuring Instruments		36M x 48M = 1728 SqM – Unit 2	
(micrometer, vernier, dial vernier,			
depth guage, height guage etc)	15 nos.		
• <b>Ultrasonic flaw detector</b>	<b>1 no.</b>	<u><b>Kindly refer to our new unit in slide 34</b></u>	

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# MANUFACTURING FLOW CHART



## Management and labour

• Top Management	4 Directors
• Middle management	7
Engineers:	4
Supervisors:	5
• Workers:	
Machine operators:	8
Skilled:	7
Junior fitter:	5
Unskilled:	12
Helpers:	7
TOTAL	59

## Suppliers and vendors and their capabilities.

- We have a variety of suppliers of raw materials viz, steel plates, alloy steel, hydraulics, electrical, consumables like oil, welding electrodes, grinding wheels, fasteners, etc.
- Similarly we also have sub-contractors who do the fabrication of equipments at site and machining of various items like wheels, gears, pinions, shafts etc.
- In Bangalore there are good sub-contractors with heavy machining capabilities with excellent accuracy on German / European CNC machines.





STEEL AUTHORITY OF INDIA LIMITED  
BHILAI STEEL PLANT  
RESEARCH & CONTROL LAB. ( MECHANICAL TESTING LAB )

TEST CERTIFICATE FOR STRUCTURAL STEEL SAIL - MA

PAGE NO 3

To  
M/s BM BSO BANGALORE (SYD)  
SAIYAPPAHALLI  
BANGALORE

Test Certificate No. RCL/MTL/PLM/SY30-9022 DATE:17-11-07  
WAGON/TRAILER NO : NWR21110651104  
D.A.No.:-SY30-9022 DATE:17-11-07

MTL-HQR-2

Specification: SAILMA 350 HI-1990 (KILLED) TEMP.CONTROLLED ROLLED

We certify that the Material mentioned below against the respective heat nos. have satisfied the requirement of Chemical composition and/or Mechanical tests of the respective specification(s). As found in the respective sample selected from them.

### TEST RESULTS

SECTION (mm) (NOMINAL SIZE) THICK X WIDTH X LENGTH OF PLATE	HEAT No.	PLATE No.	PCS	MECHANICAL PROPERTIES							
				YS, In MPa	UTS In MPa	%Elong on G.L	CHARPY V NOTCH Impact Test Values in (J)				IMPACT
							I1	I2	I3	I Av	Type °C
25 2500 6300	31977	444836	1	408	527	30	82	72	76	77	L -20
40 2500 7100	37266	462625	1	418	528	28	48	42	54	48	L -20
40 2500 9300	37266	462624	1	416	528	26	48	42	54	48	L -20

Bend Test: OK ( M.Dia 3T )

ULTRASONIC TEST IN AS ROLLED CONDITION AS PER A-578 96(2001) LB: SATISFACTORY

Total Pieces Page/TC: 3 / 14

SALE ORDER NO.: SPP0711610019

### CHEMICAL ANALYSIS ( LADLE )

Heat No	C%	Si%	P%	Mn%	S%	Al%	Cr%	Cr%	Ni%	Mo%	V%	Nb%	Ti%	Ceq
31977	0.15	0.022	0.019	1.45	0.32	0.020	—	—	—	—	0.020	0.048	—	0.40
37266	0.17	0.030	0.028	1.30	0.20	0.018	—	—	—	—	—	0.046	—	0.39

Research & Control Laboratory  
BHILAI STEEL PLANT

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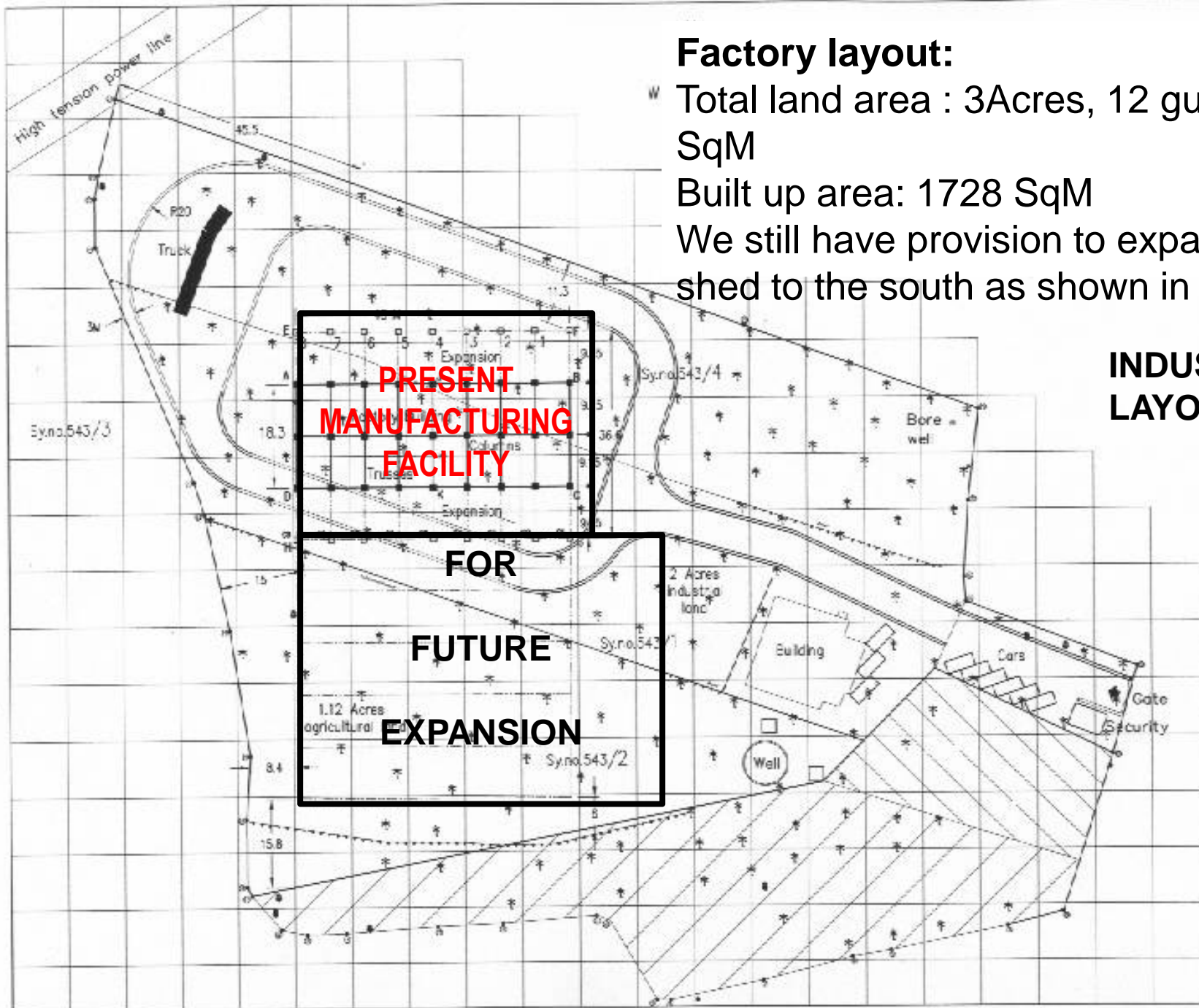
## Material certificate

The materail shown is known as  
ST 52 / FE 540 / Sailma 350 Hi.

It is basically a high tensile  
weldable plate used for  
application like lifting  
equipments and hydraulic  
cranes.

The material is available in  
thickness starting from 6mm  
upto 40mm.

The plates will be supplied with  
Test certificates for chemical,  
tensile properties and ultra.



## Factory layout:

Total land area : 3Acres, 12 guntas 13354 SqM

Built up area: 1728 SqM

We still have provision to expand the factory shed to the south as shown in the drawing.

## INDUSTRIAL PLOT LAYOUT

Honnalli Village/Hobli  
Kankapura Taluk,  
Bangalore Rural Dist.

**ARMATIC**  
ENGINEERING PRIVATE LIMITED  
SK: 30.10.2007

Scale 1:600





**THANK YOU**