www.jrsfarmparts.com

# FARM PARTS PRESENTATION

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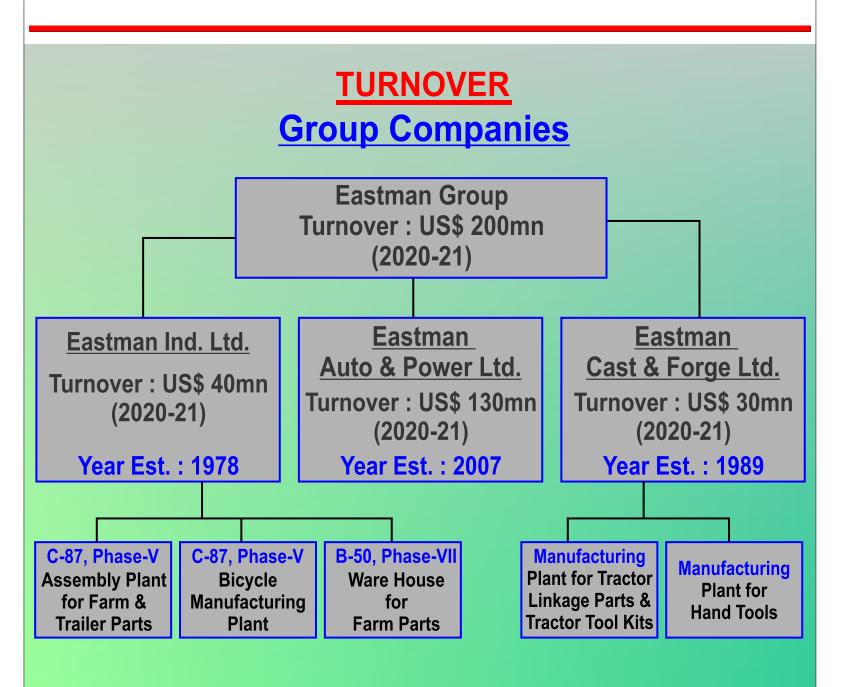
FARM PAR



Let's Win...Together

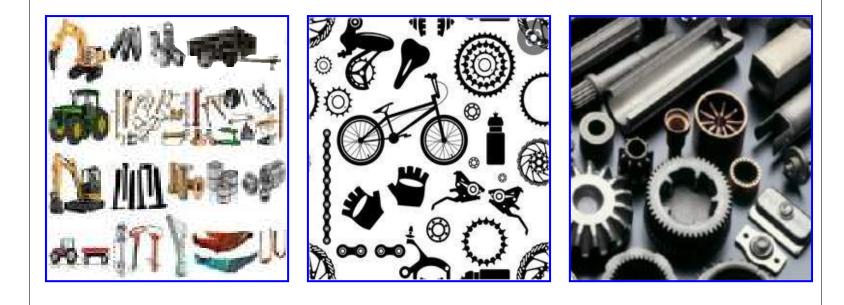
# EASTMAN INDUSTRIES LIMITED COMPANY INTRODUCTION

- Eastman Group consisting of three sister companies with Eastman Industries Ltd. as its flagship company, Established in 1978.
- JRS Farm Parts was founded in 2007 under the group company of Eastman Industries Ltd.
- Prominent STAR Export house recognized by Govt. of India

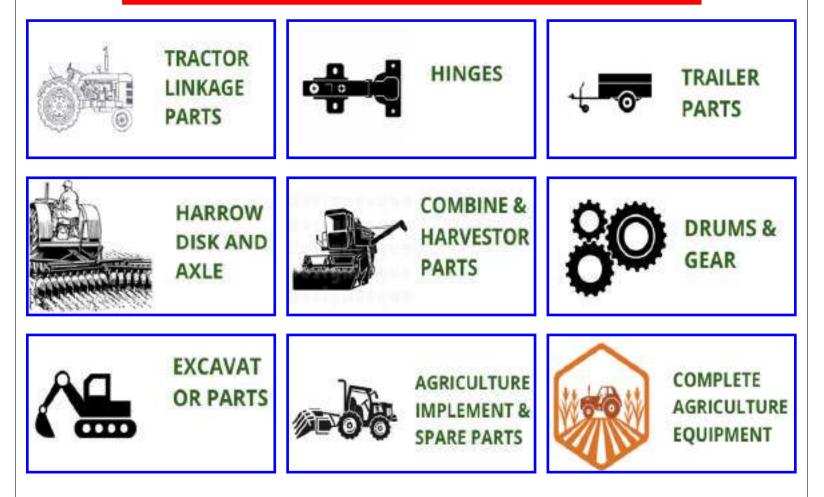


#### EASTMAN GROUP PRODUCT RANGE

- Tractor linkage & Trailer parts
- Bicycle & Bicycle parts
- Hand tools & Forging parts



#### **PRODUCT RANGE (TRACTOR PARTS)**



#### <u>PLANT LAYOUT</u> MANUFACTURING FLOW 2014 NOT: 10612-105 The state LATHE TOOLING & RIMAT AREA. DND TOYLING & MART AFEN DISL WARE ANAL MEN 510\*\* ORIVING & PM-1 1.42.127 (0.02.001) 21.66 (0.02) 10 100 187 12-12 ingen yang THERE AND A PROPERTY OF A PROP ----21 84.00 2000 in. 140 160 100 100 TROPIC ARA Ш In the local division of the local divisiono 2:0305. NUCL NUMBER LINGTON Carlos Carlos 194 int: 02 E- 81-10 8F 12 sintens a visakar oru **NORCH OF** 20 鼎 TONAL OF - 11 <sup>11</sup> WELCON DIDIOUT STATES IN NUCESON A SH01 BLAST 1.55 1014.014 Re G. 3275 HICKNEY A FOOLARE & MARIT, JPER TOOLING & MILINE AREA

## LOCATION JRS FARM PARTS (LUDHIANA)



#### **INFRASTRUCTURE**



- ISO 9001:2015 certified company.
- The main manufacturing unit is spread over 35000Sqm.
- The factory is equipped with Machineries to execute all manufacturing process in-house.

### ENSURING QUALITY 4 STAGES OF ORDER EXECUTION











#### **INCOMING RAW MATERIAL**



We procure our raw material from top suppliers in India such as TATA STEEL, AVON ISPAT etc. from which we get a test certificate verifying the chemical composition.

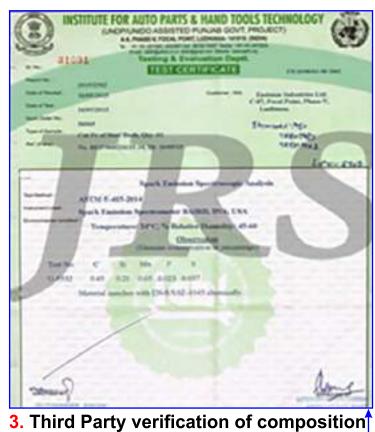
#### **THREE POINT CHECK FOR INCOMING RAW MATERIAL**

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**1.** Test certificate from our vendors



2. In-house spectrometer to verify the composition mentioned in test certificate



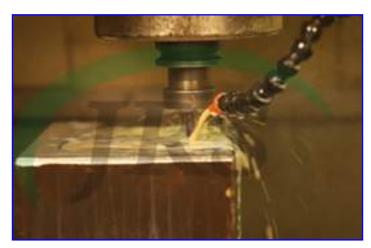
Although we procure raw material from top suppliers but we do not blindly trust them, therefore, we ensure 3 point check to ensure the raw material we are using for our goods



#### **IN-HOUSE TOOL DEVELOPMENT**







#### • VMC • WIRE CUT M/C • PANTOGRAPH M/C • EDM





#### **PRODUCTION - HALL**

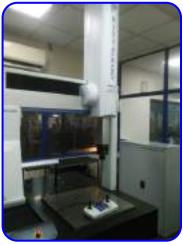


- Proper ventilation system
- No blockage of paths
- All material stored in Bins & Crates
- Same day corrective action for rejected materials

Our Factory system is maintained with top manufacturing methodology such as :

• 5S • Kaizen • POKA YOKA

#### **DURING PRODUCTION & QUALITY ASSURANCE**



<u>3D CMM</u>
Measure Machined parts with high tolerances.



<u>3D SCANNER</u>

 Physically probing (touching) the part and recording the position of the sensor as the probe moves around the part.



 PROFILE PROJECTOR
Measure in 2D space in which both length and width of the part can be measured.



#### **3D PRINTER**

 3D printing allows for the design and print of more complex designs.



 SPECTRO TESTING
Identify, sort, and analyse metals for incoming inspections, during production processes and before delivery.



• This machine is used in electronics, aerospace and automotive for contour measurement of workpiece.



 WELDING PENETRATION
Check parameters of the Length, Thickness, Throat, Percentage of penetration and include other parameters.



• Used to test the mechanical properties (tension, compression etc.) of a given test specimen by exerting tensile, compressive or transverse stresses.



 HEIGHT GUAGE
Used in metalworking or metrology to either set or measure vertical distances

#### **PRODUCTION - FORGING**







- Our Forging Line is equipped to forge parts from as low as 500gms and as high as 12 kilograms.
- GAS heated Induction Furnace is used to heat the material before forging.

#### **PRODUCTION - CNC**



- Machining is done through JAPANESE CNC machines
- Our Machines are capable of producing high precision items with quality control in microns

#### **PRODUCTION – PRESS MACHINE**



**Forging Press** 



Hydraulic Press

#### **PRODUCTION - MACHINE LIST**

List of Machines						List of Machines						
Sno.	Description	Туре	Name	Process	Sno.	Description	Туре	Name	Process			
1	CNC Turning	Single Spindle Quick Turn 200	MAJAK (JAPAN)	Turning Center	12	Hydraulic Press	100 Ton	UNIVERSAL (INDIA)	Banding			
2	CNC Turning	Single Spindle Quick Turn 201	MAJAK (JAPAN)	Turning Center	13	Hydraulic Press	250 Ton	UNIVERSAL (INDIA)	Banding			
3	CNC Turning	High Speed MD5/508	TONGTAI (TAWAN)	Turning Center	14	Conveyer System		PRECISION (INDIA)	Running Conveyer			
4	CNC Turning	Double Spindle with Automatic load in G-	MURATEC (JAPAN)	Turning Center	15	Heat Treatment Furnace	GCF	SIMPLICITY (INDIA)	Heat Treatment			
		Unloading System MW120G			16	Welding Set	MIG	INDIA	Welding			
5	CNC Turning	TL 160	LOKESH (INDIA)	Turning Center	17	Thread Rolling M/c	Hydraulic	REKOFA (INDIA)	Thread Rolling			
6	CNC Turning	TL 20	LOKESH (INDIA)	Turning Center	18	Center Less Grinder	Center Less Grinder	BHAGWAN SONS	Grinding			
7	Productive	Small Automatic	NDMACHINE	Machining	19	Buffing Adda		INDIA	Polishing			
'	Lathes	Lathe	(INDIA)	-	20	Zinc Plating	Plating	INDIA	Plating			
8	Lathe	With Copy Turning Attachment	NDMACHINE (INDIA)	Tooling		Plant VMC			Die Making			
9	Tapping Lathe			Tapping	21	Machine		TAIWAN	& Drilling In			
10	Rilling Machine	Hydraulic & Gear Drilling		Drilling	22	Band Saw M/c		INDIA	Accuracy Cutting			
11	Mechanical Power Press	150 Ton (H type & C type)	MILAP (INDIA)	Coining	23	Automatic Band Saw		INDIA	Cutting			



#### **SHOT BLASTING & SAND BLASTING**



#### **PRODUCTION – WELDING SECTION**







 Proper Chimney system installed in welding section for better working environment for our workers

#### **CERTIFIED WELDERS**



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#### **HEAT TREATMENT – GCF (Gas Carburized Furnace)**

Hardening Furnace

Tempering Furnace

Normalizing Furnace



- We specialize in SURFACE HARDENING as well as CASE HARDENING
- Through GCF we can achieve CASE HARDENING even more than 65HRC

#### **QUENCHING**

Polymer Quenching

Oil Quenching

Water Quenching



 We follow CLOSED QUENCHING PROCESS to avoid formation of SCALING on surface to ensure smooth zinc plating



#### **IN-HOUSE ZINC PLATING FACILITY**

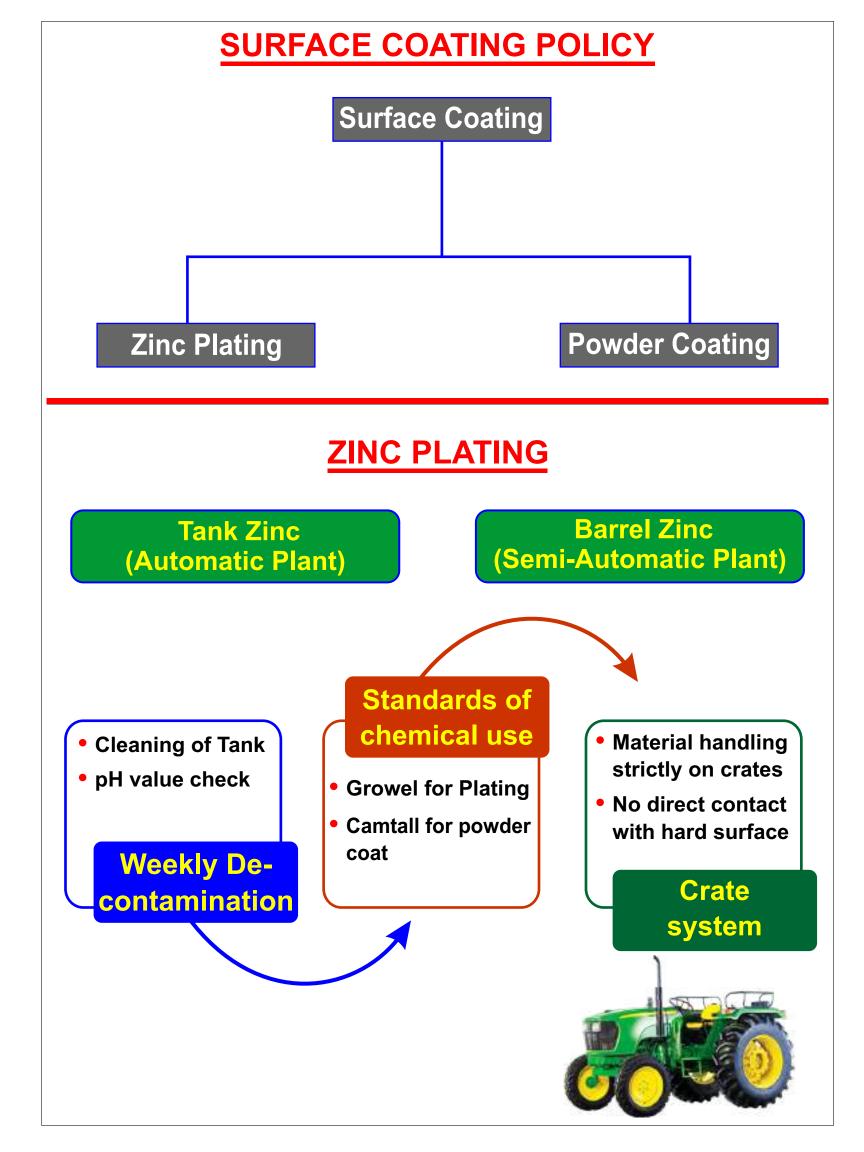








• We follow 28 STEPS control action plan according to which the minimum coating thickness of our goods is 15-20 Micron





& seal through VCI

bag to avoid

moisture capture

No direct contact with hard surface such as wooden, Cardboard & floor etc. after plating. Material handling strictly through Bins



7 step pre-cleaning process with acid Gardoclean/Gardacid Palbond

Base material to be shot blasted and then cleaned with cloth before spraying

Parts should be hanged properly avoiding contact with each other. Powder should be evenly sprayed all over part



Baked at 220° for 30-40 mins. immediately after spraying. Thickness of 45 microns to be mantained



**Packing in cartons** & seal through VCI bag to avoid moisture capture

#### **IN-HOUSE ZINC PLATING FACILITY**





We have semi-automatic zinc plating facility

#### POWDER COATING



In-House Powder Coating Facility which is done with proper surface treatment for prolong life.



### **IN-HOUSE TESTING FACILITY**





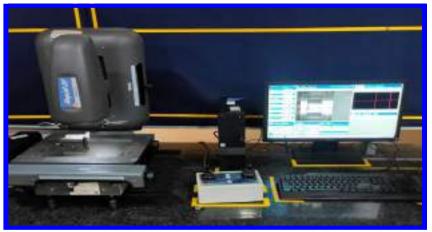








## **QUALITY LAB**



Rapid I video measuring machine



Salt Spray Testing of up to 72hrs for each batch



**Vicker Hardness Tester** 



#### STANDARD ASSEMBLY INSTRUCTION FOR OEM PARTS



• We have displayed the assembly instruction for our standard OEM items to minimize error on the worker part

#### **ASSEMBLY AREA**



**Semi-Finished Goods** 





**Finished Goods** 



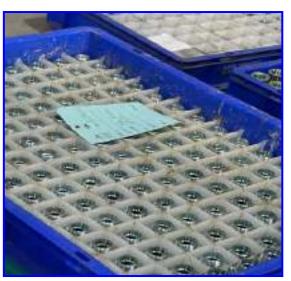
#### **IN-HOUSE CONTAINER STUFFING**



Container are Stuffed and Sealed in house under CCTV surveillance Fumigation of wooden pallets is performed after stuffing of container

#### **MATERIAL HANDLING & PACKAGING**





Plastic Bins are used to keep products scratch free after Plating and before Packing.



Rust preventive Pills inside the Polybags for control all types of side effects in Packing.



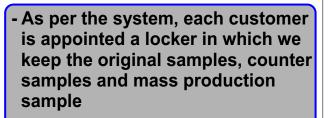
Ready made Zipped Water proof Polybag used inside the Wooden packing for safe Packing



We used Ply in wooden pallets for strong and moister free Packing of products so it safely reached at customer end.

#### **SAMPLE MANAGEMENT SYSTEM**



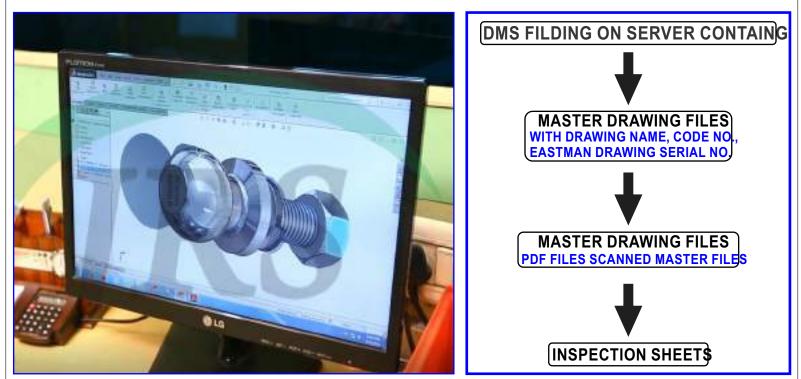


 RED STICKER pasted on new samples received from customer

YELLOW STICKER pasted on counter samples developed in-house.

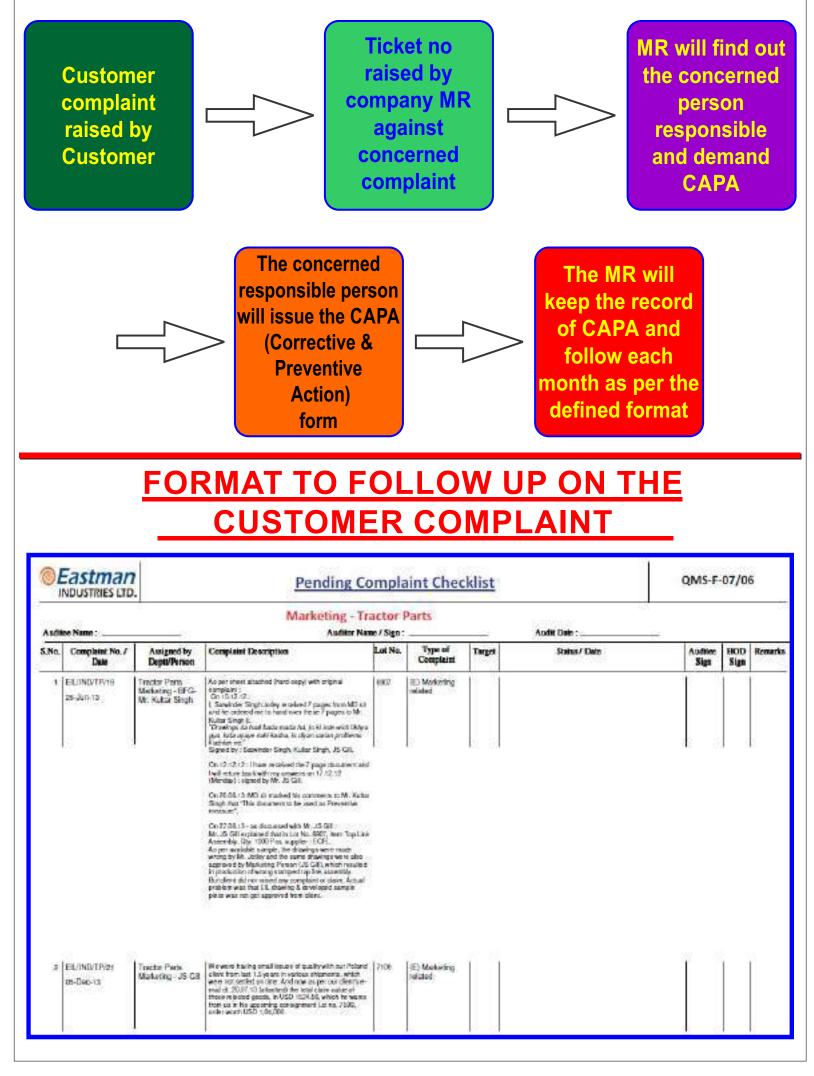
- GREEN STICKER pasted on mass production sample

#### **DRAWING MANAGEMENT SYSTEM**

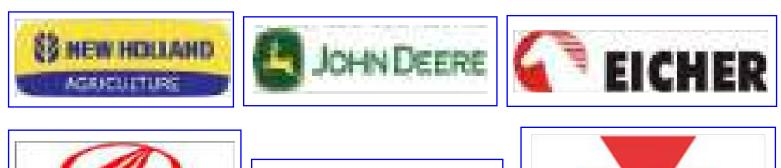


- We develop 3D models on SOLIDWORKS and dimensional drawings on AUTO CAD/CAM
- After developing the drawings they are dropped in common folder in server DMS as per following system

#### **CUSTOMER COMPLAINT MANAGEMENT SYSTEM**



#### **OUR OEM CUSTOMERS**





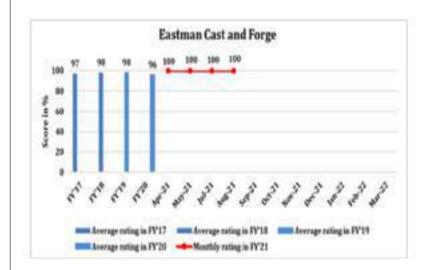




## **SUPPLIER DELIVERY PERFORMANCE RATING FROM ISUZU & MAHINDRA**

Hahindre Mis BASTMAN CAST FORGE LTD. G.T. ROAD NEAR ARPORT LUDHANA Kind Attention: Mr. Sanjoe Tandon

	Supplier Delivery Performance Rating							
Supplier Name		Eastman Ca						
Supp	ilier Code	1109						
SNo Parameters		Weightage	Target	Actual	Score			
1	Parts Quality	20	4	4	20			
2	Sechdule Adherence	20	4	4	20			
3	Process Adherence	15	4	4	15			
4	VOR Supportability	10	NA	NA	10			
5	Quantity Mismatch	10	4	4	10			
6	D-Note/Invoice	10	4	4	10			
7	Tag Availability	10	4	4	10			
8	Responsiveness	5	4	4	5			
		Rating		10000	100			



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Subject: Succiler Performance Score Carl-Key Business Parameters



# FARM PARTS PRESENTATION

#### Eastman Industries Ltd.

Head Office : C-87, Phase-V, Focal Point, Ludhiana -141 010 Punjab. (INDIA) Tel. : ++91-161-2670935, 2670936, 5280000 Fax : ++91-161-2670934 E-mail : jaswinder@jrsfarmparts.com paldeep@jrsfarmparts.com Website : www.farmparts.com

#### Eastman Cast & Forge Ltd.

Works : Near Ludhiana Airport, G.T. Road, Ludhiana, Punjab (INDIA)