

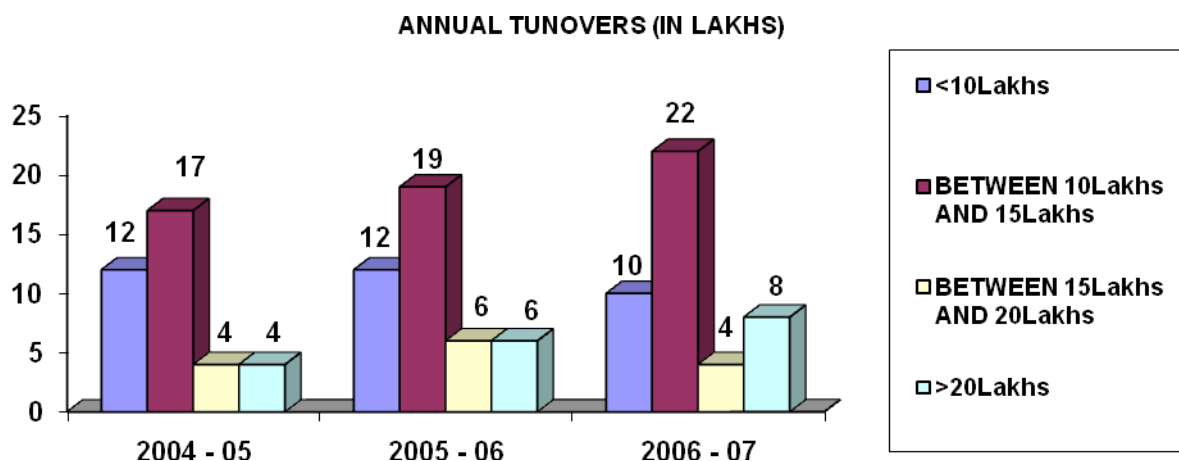
SUMMARY OF FINDINGS

- The units operating in the galvanising sector are termed as the RED INDUSTRY, constantly under the threat of closure.
- The major issue which is plaguing this sector is the very nature of business which is the job work, integrated units are doing well as it's the entire forward integration.
- The units, which are operating on job work, have an monthly job stock of 50 – 70 tpm which they carry out at app Rs. 8/- per kg. On an average the monthly electricity bill is app. 25,000 units (this is when the air & water pollution equipments do not run). Under these circumstances, it's difficult for the units to survive for long with the escalating raw material price.

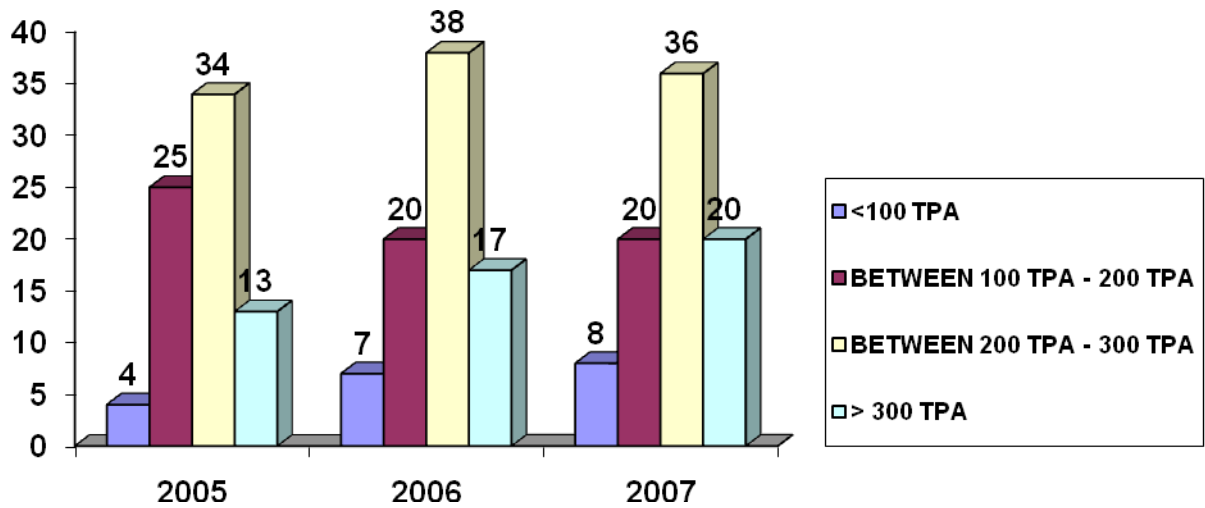
HOWRAH - GALVANISING

ANNUAL TURNOVER

Number of companies with turnovers in different ranges as given in index



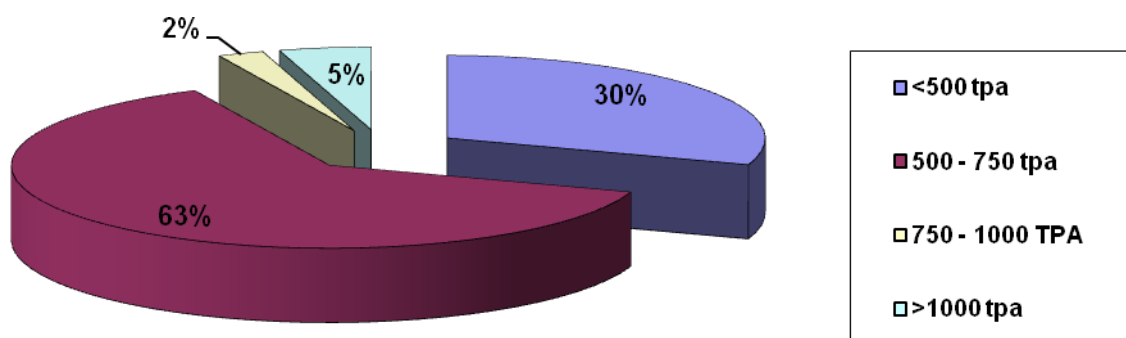
PRODUCTION



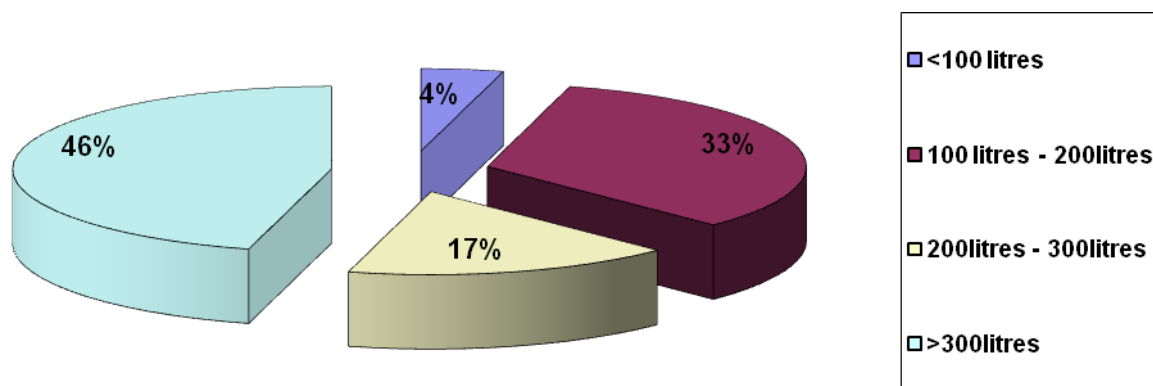
ENERGY REQUIREMENTS

USAGE OF FUEL

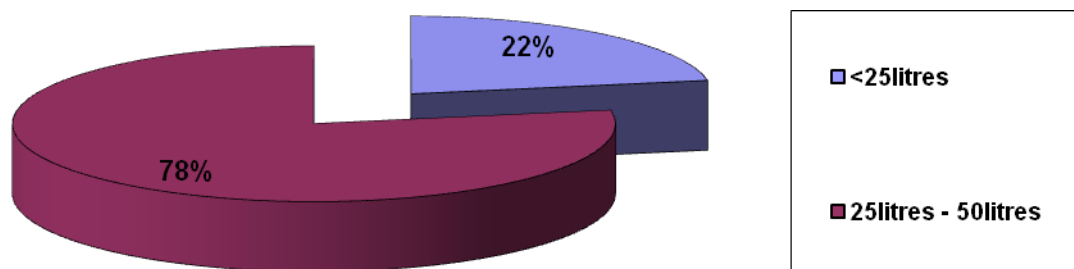
Coal



LDO

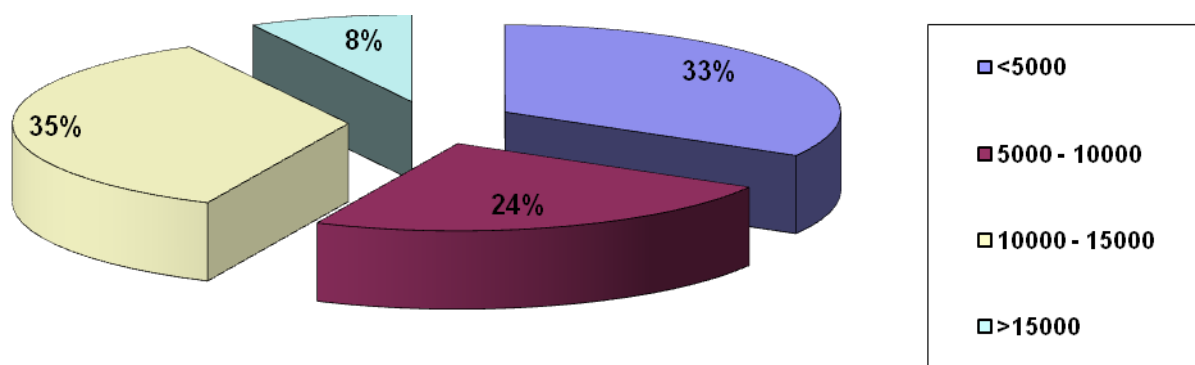


HSD



RAW MATERIAL REQUIREMENT

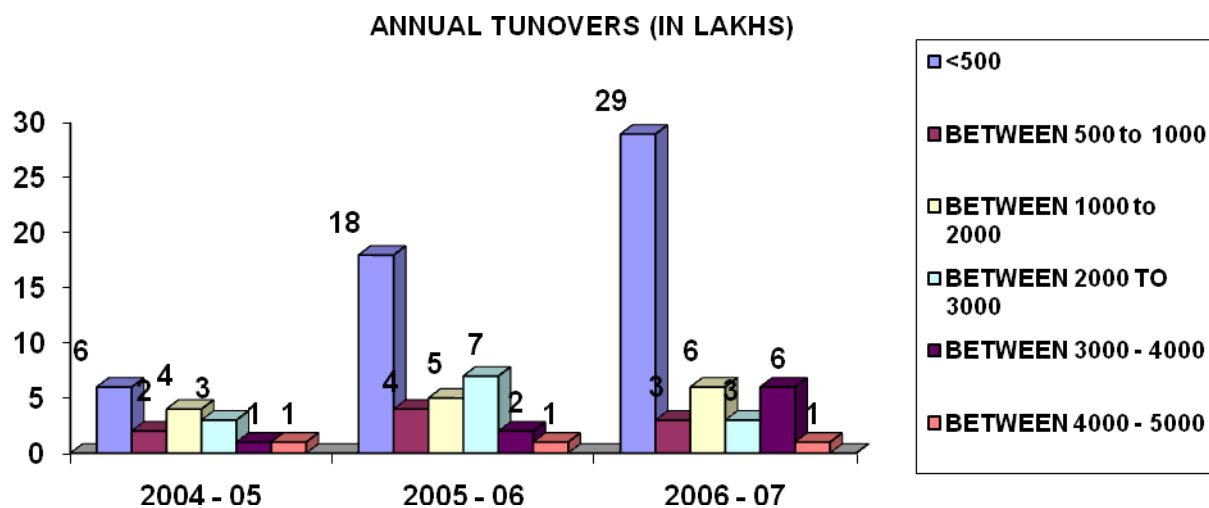
ZINC (ALL VALUES IN KGS PER ANNUM)



HOWRAH – WIRE DRAWING

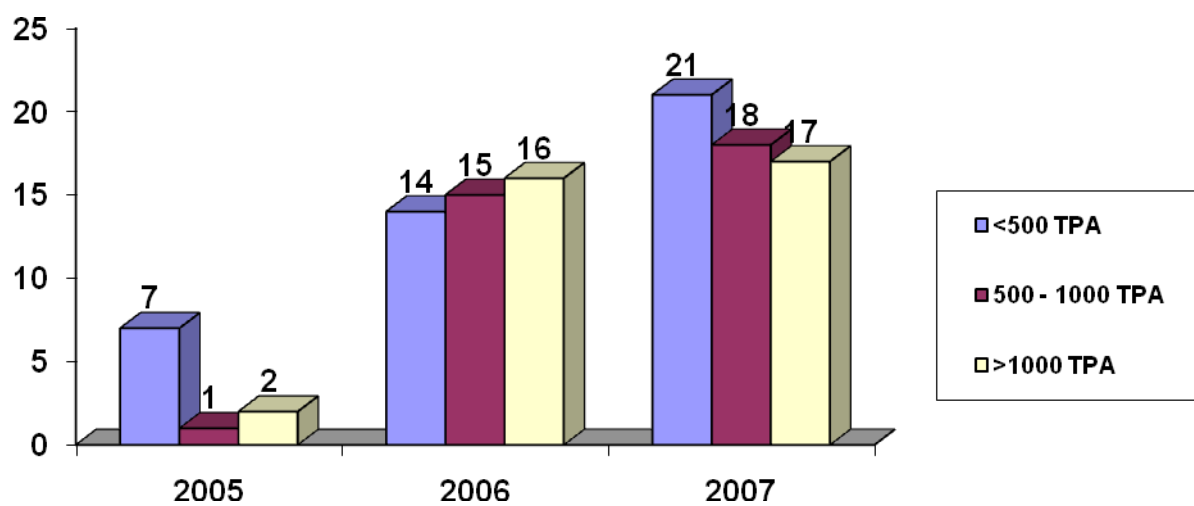
ANNUAL TURNOVER

Number of companies with turnovers in different ranges as given in index



PRODUCTION

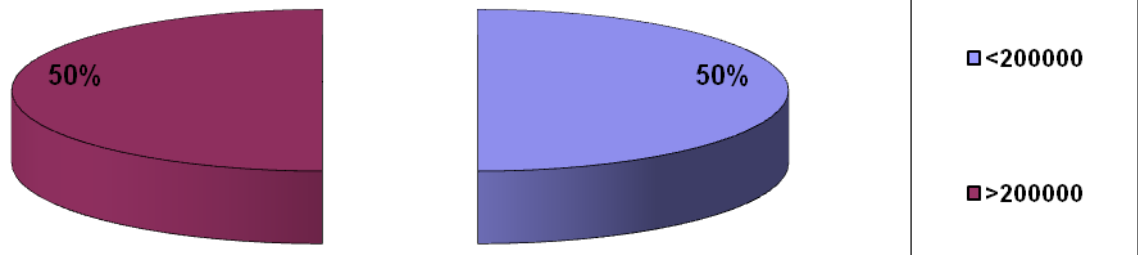
ANNUAL PRODUCTION IN TONNES PER ANNUM



ENERGY REQUIREMENTS

USAGE OF FUEL

HSD (Litres per annum)



RAW MATERIAL REQUIREMENT

	QUANTITY	NUMBER OF UNITS USING
ALLOY STEEL	3600	1
ALUMINIUM	10560	3
BRASS	15	1
COPPER	26	1
COPPER WIRE	4010	7
COPPER INGOTS	360	1
FERRO WIRE	600	1
HC WIRE ROD	600	1
IRON SCRAP	480	2
MS WIRE	55292	40
IRON ROD	5300	3

FIELD OBSERVATIONS

- The Howrah Cluster consists of two type of units –Galvanizing and the other wire drawing.
- The wire drawing units are scattered across Jalan, Domjur, Dhulagarh, Alampur, Liluah, Chamrail.
- Though as per the DIC and the census carried out in 2001, 96 units were registered and in operation but as on date only 60 units were found running.
- The main reason for the closure of the units as told by the local association was power problem, labour problem and high cost of raw material.
- All the units currently in operation are using the indigenous and traditional technology, no foreign collaboration is there.
- There are 5 types of wire drawing units in Howrah
 - MS WIRE
 - COPPER WIRE
 - AL WIRE
 - BRASS WIRE
 - RIBBED CABLE WIRE/TRANSMISSION
- The major customers are motor manufacturers, transformer manufacturers, instruments, magnetic coils, ballast, fan manufacturers, Power transmission.
- The units procure the raw material directly from the manufacturers as its an high input cost, in some cases brokers also play an important role.
- The major equipment is the wire drawing machine & the enameling machine but the main component is the die – diamond / HSS die.
- MS, Copper, Al ingots are the main raw material, in some cases scrap is also an raw material which is melted to make ingots.
- The units are operating in single shift only except for some high volume units, which operate for 2 shifts.
- Though there is an association it is as good as redundant, its only the local industrial estate association which is active.
- The process is
 - Thick wire drawing
 - Intermediate wire drawing
 - Medium wire drawing

- Fine Wire drawing
- Enamelling
- Certain units have started using catalytic combustion machine –a part of enameling machine wherein the enamel is cured with help of gas fumes along with a catalyst – vanadium pentoxide and again put in furnace for curing. By the use of this technology energy is recycled and the power consumption is reduced

ENERGY CONSUMED BY THE CLUSTER

FUEL TYPE	QTY	TOTAL
COAL – GI UNITS	300TPD	90,000 TPA
HSD/LDO – GI UNITS	6700 LTPD	2100 KL/A
ELECTRICITY –GI UNITS		
ELECTRICITY - WIRE DRAWING	750000 UNIT/MTH	75, 00,000 UNITS/ANNUM

GALVANISING

- The galvanizing units in Howrah are always under the threat of closure due to sudden raids by the pollution control board.
- As per a census carried out in 2006 by the local association, there were app. 70 units operating in different parts such as Salap More, Ratan Haldar lane, Noor Mhd Munshi Lane, Ghosuri etc , all sensitive places due to pollution problems had to close down. As on date app. 45 units are running.
- Locating the units and having access is a very problem as always there is an fear among the owners of the unit that some raid might occur.
- The products being galvanized are
 - Pipes/rods
 - Nuts/bolts
 - Channels/Angels/Socketts

- Majority of the units carry out job work, except for certain pipe manufacturers who have an in house facility.
- The major equipment in these units is how to control air & water pollution – blower, chimney, hopper. As far as the process goes, zinc bath (made manually by cement) & acid tank is the only equipment.
- The process involves
 - Components put in acid tank
 - Dipped in HCL, Plain water, Sulphuric acid, Plain water, Aluminum chloride
 - Dipped in free bath and then Zinc bath., plain water (cold water) Dicromate solution tank
- The main raw material is zinc, HCL, Ammonia, Sulphuric acid
- Majority of the units are manual and have a capacity utilization of app. 30%
- The availability of raw material is not an problem
- During the study it was observed that these units being on job work basis could not afford to run the effluent treatment /water treatment as well as air pollution treatment as it involved using a couple of motors wherein electricity would be consumed.
- The operation of the units is seasonal.
- The major issue with these units is that they do not have regular flow of work, its an job work industry wherein the major raw material Zinc is also supplied by the party, hence the set –up i.e. running of effluent treatment, air pollution equipment which requires a lot of electricity if it runs constantly.

SERVICE PROVIDERS

- The equipment suppliers were
 - Nehar Engg & Sons
11/1, Kundan Lane
Liluah (w), Howrah – 711204
 - Globe Engg
Howrah
 - Star Engg.
2, Panchnantha Lane, Liluah, 02645-3128
 - Mintu Enterprise
Liluha, Howrah
 - Majhi Eng.
NH-6, Alampur
New Kolorah, Howrah – 711302
Ph: 26690110
Mob: 9830060110 / 9830288915
 - Hind Engg Works.
2 Kundan Lane, Liluah (W), Howrah – 711204
 - Mintu Enterprises
Liluah.
 - Anupam Industries , Nagpur
 - N.K. Machines, Indore

- The local suppliers which operated in the GALVANISING cluster were
 - B.K.Steel Supplier
Belilious Rd, Howrah –1
 - Durga Iron & Steel
Bellilious Road, Howrah – 1
 - PAL Chemicals
Barkha Rd, Salkia
Howrah –4

- Murshed Chemicals
Brakha Road, Salkia
Howrah –4.

BANKERS

- All the units have some or the other bankers. The major one are
 - PNB
 - IOB
 - VIJAYA
 - OBC
- A Number of units have availed the loan facility from the banks for wire drawing machines as well as enameling machine.

The respondents were not aware of CGFTI

Galvanising & Wire Drawing Unit

