

**A STUDY ON INVENTORY CONTROL MANAGEMENT WITH REFERENCE
TO ALLOYSYS EXTRUSION PVT LTD**

Submitted in partial fulfillment of the requirements for the award of

MASTER OF BUSINESS ADMINISTRATION

by

KARTHIK KUMAR D J

Register No.40410082



SCHOOL OF MANAGEMENT STUDIES

SATHYABAMA

INSTITUTE OF SCIENCE AND TECHNOLOGY

(DEEMED TO BE UNIVERSITY)

Accredited with Grade “A” by NAAC | 12B Status by UGC | Approved by AICTE

JEPPIAAR NAGAR, RAJIV GANDHI SALAI, CHENNAI - 600 119

NOVEMBER 2021



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BONAFIDE CERTIFICATE

This is to certify that this Project Report is the bonafide work of
KARTHIK KUMAR D J 40410082 who carried out the project entitled "A STUDY
ON INVENTORY CONTROL MANAGEMENT WITH REFERENCE TO
ALLOYSYS EXTRUSION PVT LTD" under my supervision from September 2021
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DECLARATION

I **KARTHIK KUMAR D J (40410082)** hereby declare that the Project Report entitled "**A STUDY ON INVENTORY CONTROL MANAGEMENT WITH REFERENCE TO ALLOYSYS EXTRUSION PVT LTD**" done by me under the guidance of **DR.M.LAVANYA** is submitted in partial fulfillment of the requirements for the award of Master of Business Administration degree.

DATE:

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KARTHIKKUMAR D J

ABSTRACT

Stock administration is the "stream's administration of materials into an association to the degree where, those materials are changed over into the association's deciding item. This study goes for distinguishing the stock's productivity, administration at Alloysys Extrusion Pvt Ltd. The auxiliary targets incorporate comprehension the perceptual experience of representatives towards the stock administration and the components making the abundance stock inside of the establishment.

Through this study, the scientist needs to recognize the suitable measures to shield the great from burglary. To evaluate the for the most part utilized stock administration strategy and the qualities for the low stock turnover proportion has been drawn off as different goals for this venture.

The extent of this study incorporates dodging exorbitant and lacking levels of inventories in the club. Stock administration helps the administration to maintain the business operations of the organization in a smooth and adequate way. Fitting administration of stock levels empowers the organization to stay with adequate stock in the for the smooth creation and self operations.

Different decision inquiries have been decided to gather the answers from 130 workers. The accommodation examining technique has utilized as a part of the Field examination. The information gathered has been concentrated on through different factual instruments like Karl Pearson's Correlation, Chi-square test and One-way Anova test. Various new discoveries have been getting from this examination has served to offer a couple of recommendations to the organization to streamline the stock administration.

TABLE OF CONTENTS

CHAPTER NO.	TITLE	PAGE NO.
	ABSTRACT	(i)
	LIST OF TABLES	(iii)
	LIST OF CHARTS	(iv)
	LIST OF ABBREVIATIONS	(v)
1	INTRODUCTION	1
	1.2 Meaning and Definition of Inventory	3
	1.3 Management of Inventories	4
	1.4INDUSTRY PROFILE	4
	1.5COMPANY PROFILE	13
	1.6 PRODUCTS	15
	1.7 CUSTOM EXTRUSION	23
	1.8 QUALITY MANAGEMENT	25
2	REVIEW OF LITERATURE	27
3	STATEMENT OF OBJECTIVES	31
	3.1 OBJECTIVES	
	3.2 NEED FOR THE STUDY	
	3.3 SCOPE OF THE STUDY	
	3.4 LIMITATIONS OF THE STUDY	32

	RESEARCH METHODOLOGY	
4	4.2 RESEARCH DESIGN	33
	4.3 RESEARCH STUDY	
	4.4 STATISTICAL TOOLS USED:	
	4.5 SAMPLE SIZE:	
	4.6 RESEARCH INSTRUMENT	
	4.7 METHOD OF COLLECTION OF DATA	
	4.8 ANALYTICAL TOOLS	34
5	DATA ANALYSIS AND INTERPRETATION	37
	5.2 CHI- SQUARE TEST I – (ψ^2)	60
	<u>5.3 ANALYSIS USING KARL PEARSON’S CORRELATION</u>	64
	5.4 T-Test	65
	5.5 WEIGHTED AVERAGE METHOD	67
6	FINDINGS ,SUGGESTIONS &CONCLUSION	72
	6.1 FINDING	74
	6.2 SUGGESTIONS	
	6.3 CONCLUSION	
	REFERENCES & BIOGRAPHY	75
	ANNEXURE 1 QUESTIONNAIRE	78
	ANNEXURE 2 RESEARCH ARTICLE	

LIST OF TABLES

Table No	PARTICULARS	Page No
1	QUALIFICATION	37
2	EXPERIENCE	38
3	DEPARTMENTS	39
4	AGE	40
5	GENDER	41
6	TYPES OF METHOD DOES THE COMPANY USE TO CHECK INVENTORY	42
7	INVENTORY LOCATIONS ARE CUSTOMIZABLE	43

8	MANAGEMENT REVIEW AND FOLLOW UP REPORTS OF INVENTORY TURNOVER, AGEING AND INVENTORY ADJUSTMENTS	44
9	PROPER LAYOUT PLAN OF THE INVENTORY STORAGE FACILITY IN YOUR ORGANIZATION	45
10	DOCUMENT PROCEDURE FOR STOCK TAKING	46
11	RECEIVING, ISSUING, ACCOUNTING AND STORING RESPONSIBILITIES PROPERLY SEGREGATED	47
12	OFTEN DO DEPARTMENTS COMPARE QUANTITIES RECEIVED AGAINST RECEIVING REPORTS	48
13	HOW IMPORTANT IS MANAGING INVENTORY LEVELS IN YOUR ORGANIZATION	49
14	MANAGEMENT MONITOR AND APPROVE THE WRITE-OFFS OF OBSOLETE AND INACTIVE INVENTORIES	50
15	RANK THE FACTOR BY WHICH THE COMPANY SHOULD TAKE NECESSARY STEEPS TO SAFEGUARD THE GOOD FROM THEFT	51
16	ADEQUATE INSURANCE COVERAGE PROVIDED IN ALL THE UNITS	53
17	DEPARTMENT DOES ADEQUATE PROVISION ARE MADE FOR OBSOLETE AND INACTIVE ITEMS IN INVENTORIES	54
18	INVENTORY ITEMS MAINTAINED IN A SECURE LOCATION	55
19	PHYSICAL INVENTORY CONDUCTED AT LEAST ANNUALLY	56
20	RANK THE FACTOR BY WHICH THE COMPANY HAS A LOW INVENTORY TURNOVER RATIO	57
21	RANK THE FACTOR BY WHICH FACTOR HAS EXCESS INVENTORY CAUSES THE ORGANIZATION	58

22	SATISFACTION LEVEL WITH THE COMPANY'S INVENTORY CONTROL MANAGEMENT	59
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LIST OF CHARTS

Table No	PARTICULARS	Page No
1	QUALIFICATION	37
2	EXPERIENCE	38
3	DEPARTMENTS	39
4	AGE	40

5	GENDER	41
6	TYPES OF METHOD DOES THE COMPANY USE TO CHECK INVENTORY	42
7	INVENTORY LOCATIONS ARE CUSTOMIZABLE	43
8	MANAGEMENT REVIEW AND FOLLOW UP REPORTS OF INVENTORY TURNOVER, AGEING AND INVENTORY ADJUSTMENTS	44
9	PROPER LAYOUT PLAN OF THE INVENTORY STORAGE FACILITY IN YOUR ORGANIZATION	45
10	DOCUMENT PROCEDURE FOR STOCK TAKING	46
11	RECEIVING, ISSUING, ACCOUNTING AND STORING RESPONSIBILITIES PROPERLY SEGREGATED	47
12	OFTEN DO DEPARTMENTS COMPARE QUANTITIES RECEIVED AGAINST RECEIVING REPORTS	48
13	HOW IMPORTANT IS MANAGING INVENTORY LEVELS IN YOUR ORGANIZATION	49
14	MANAGEMENT MONITOR AND APPROVE THE WRITE-OFFS OF OBSOLETE AND INACTIVE INVENTORIES	50

15	RANK THE FACTOR BY WHICH THE COMPANY SHOULD TAKE NECESSARY STEEPS TO SAFEGUARD THE GOOD FROM THEFT	51
16	ADEQUATE INSURANCE COVERAGE PROVIDED IN ALL THE UNITS	53
17	DEPARTMENT DOES ADEQUATE PROVISION ARE MADE FOR OBSOLETE AND INACTIVE ITEMS IN INVENTORIES	54
18	INVENTORY ITEMS MAINTAINED IN A SECURE LOCATION	55
19	PHYSICAL INVENTORY CONDUCTED AT LEAST ANNUALLY	56
20	RANK THE FACTOR BY WHICH THE COMPANY HAS A LOW INVENTORY TURNOVER RATIO	57
21	RANK THE FACTOR BY WHICH FACTOR HAS EXCESS INVENTORY CAUSES THE ORGANIZATION	58
22	SATISFACTION LEVEL WITH THE COMPANY'S INVENTORY CONTROL MANAGEMENT	60

CHAPTER I

ABOUT THE STUDY

INTRODUCTION

Effective inventory management is all about knowing what is on hand, where it is in use, and how much finished product results.

Stock organization is the technique of gainfully dealing with the predictable stream of units into and out of a current store. This method, when in doubt, remembers controlling the move for of units, remembering the ultimate objective to hold the stock back from ending up being excessively high, or lessening to levels that could place the scholarly technique of the association into risk. Prepared stock organization in like manner hopes to control the cash related characteristics associated with the stock, both according to the finishes' point of view assessment of the items included and the tax collection rate made by the consolidated assessment of the store

Working out what is known as help stock is similarly key to effective stock organization. Fundamentally, support stock is additional units past the irrelevant number expected to keep up creation levels. For example, the manager might check that it would be a sound remembered to keep perhaps a couple additional units of a given machine part accessible, scarcely if an emergency situation arises or one of the units ends up being lacking once presented. Making this cushion or support limits the opportunity for creation to be impeded in light of a shortfall of principal limits in the activity supply stock.

Changing the various endeavors of stock organization implies paying thought on three critical looks of any variety. The primary face needs to act with them. In conditions of materials got for thought in The total stock, this suggests considering how much it takes for a provider to set up a solicitation and bring through a real vehicle. Stock organization moreover demands that a solid perception of how much it will necessity for those materials to trade out of the stock be developed. Realizing these two imperative lead times makes it possible to know when to place in a solicitation and what number of units should be mentioned to keep age running without any problem.

Stock administration is not restricted to archiving the salvage of crude materials and the development of those materials into operational procedures. The development of those materials as they experience the different purposes of the technique is additionally imperative. Regularly known as a merchandise or work in advancement stock, following materials as they are utilized to make completed products additionally serves to recognize the need to conform requesting sums before the crude materials stock gets perilously low or is swelled to an unfavourable level.

In the long run, stock administration needs to with keeping exact records of completed merchandise that are prepared for shipment. This regularly means empowering the generation of recently finished products to the stock sums and additionally reasoning the latest shipments of completed merchandise to purchasers. At the point when the organization has an arrival approach set up, there is generally a sub-classification contained in the completed products stock to represent any conveyed merchandise that are renamed as repaired or second grade quality. Precisely keeping up figures on the completed merchandise stock makes it conceivable to rapidly pass on data to deals work force with reference to what is accessible and prepared for shipment at any given time.

Notwithstanding keeping up predominance of the volume and development of a few stocks, stock administration additionally makes it conceivable to create precise records that are used for getting to any expenses due on every store character. Without precise data in regards to unit volumes inside of every period of the general operation, the organization can't precisely ascertain the expense bills. This could prompt coming up short on the expenses due and conceivably causing firm punishments in the occasion of an autonomous review.

Inventories involve the most key spot in the development of working capital of most business undertakings. It contains the biggest element of current resource in many business ventures. In the area of working capital, the proficient control of stock rundown has blown over the gravest issue to the bond factories on the grounds that around two-third of the present resources of plants hindered in inventories. The turnover of working capital is generally administered by the turnover of stock rundown. It is along these lines very common that stock which serves to amplify benefit possesses the most noteworthy position among current resources.

1.2 Meaning and Definition of Inventory

In the lexicon importance of stock is a "nitty gritty rundown of exchange products, furniture, and so on." Many comprehend the word stock, as a starting point of wares, however the for the most part acknowledged significance of "merchandise" in the bookkeeping dialect, is the foundation of Completed merchandise just. In an assembling association, nonetheless, notwithstanding the supply of completed merchandise, there will be load of somewhat completed products, touchy materials and trusts. The aggregate name of these whole things is 'stock'.

The expression "stock" alludes to the stockpile of generation a firm is putting forth available to be purchased and the parts that sort out up the yield.

The stock means total of those things of unmistakable individual property which

- (i) Are held available to be purchased in the standard course of occupation.
- (ii) Are currently generation for such deals.
- (iii) They are to be as of now devoured in the creation of products or administrations to be accessible available to be purchased.

Inventories are expandable physical articles held for resale for utilization in creating an item or for utilization in carrying on business action, for example, stock, products bought by the customer base which are prepared available to be purchased. It is the broker's blood who not produce it.

Completed Goods:

Items being created accessible to be bought by the segment which are arranged accessible to be bought.

Materials:

Stipulations, for instance, new materials, semi-finished stock or finished parts, which the techniques for progress to unite genuinely into the finished age.

Supplies:

"Article, which will be eaten by the occupation in its working, but will not actually as they are a creation's piece.

The short stock might be settled as the material, which are either saleable in the business area or usable explicitly or indirectly in the gathering procedure. It also fuses the 187 things which are ready for making finished items in some unique methodology or by taking a gander at them either by the business establishment itself as well as by outside gatherings[14]. By the day's end, the term stock means the material having any of the going with ascribes. It very well may be

1. Saleable in the business area,
2. Directly saleable in the production methodology of the occupation,
3. Usable directly in the collecting method of the undertaking, and
4. Ready to ship off the external get-togethers for conveying usable and saleable manifestations out of it.

In the current review unrefined materials, stores and excess portions, finished items and work-in-strategy have been fused inventories. The firm in like manner manufactures supply of acquirements. Supplies included office and plant cleaning materials (chemical, floor brushes, etc oil, fuel, lights and the inclinations). These textures don't clearly put down into the creation interaction, yet are fundamental for the age cycle. Stock establishes the main piece of current assets of a phenomenal vast majority of associations in India. For example, on an ordinary inventories are more than 57 for every penny of current assets transparently compelled associations and pretty much 60.5per penny of government associations in India. As such it is absolutely fundamental to supervise inventories capably and reasonably remembering the ultimate objective to avoid pointless interest in them. An undertaking excusing the organization of stores will gamble with its for quite some time run benefit and may mellow the last stage. It is doable for an association to decrease its degree of inventories to a noteworthy degree, for example 10 to 20 for each penny with no hostile effect on yield and gross receipts.

1.3 Management of Inventories

Inventories comprise of new materials, stores, extras, pressing materials, coal, rough items, deeds ahead of time and completed items in stock either at the manufacturing plant or stores. It is the most vital element of current resources in the bond business and was 42 percent of aggregate current resources of test organizations as on March 31, 2004. In different commercial ventures

too it is an essential piece of aggregate speculation. The consideration of stock means hindering of trusts thus it takes the interest and opportunity expense of the house.

In numerous nations uniquely in Japan incredible accentuation is set on stock administration. Endeavors are made to minimize the load of inputs and yields by fitting planning and generation of interest of differing inputs and creating just that much amount which can be exchanged the commercial center. The stock expense is enthusiasm on homestead creatures, as well as expense of store building for capacity, protection and obsolesce and development of inputs from the lieu of capacity to the manufactory where the materials must be at long last used to win over them into completed merchandise. In Japan commercial ventures have embraced the idea of JIT (Just in Time) and segments, materials are gotten when needed for which definite directions are given to suppliers.

There are numerous building organizations who get segments straightforwardly at the get together level and that too just for 3-4 hours prerequisites at once. Indeed, even in the event of mass materials like iron mineral, which is foreign from abroad, the base conceivable stock is kept.

As against this all things considered in India the stock of coal, crude materials and pressing materials is genuine high and numerous things get to be garbage or out of date creating overwhelming misfortune to the endeavor. Absence of stock arranging in India has been put out by different advisory groups, essentially because of vulnerabilities in supplies, issue of auspicious receipt of railroad wagons, absence of arranging and untrustworthy suppliers the interest in stock records is very high. The variance popular influences the stock of completed result of which concrete industry has been a casualty commonly.

Objectives of Inventory Management

The essential targets of stock administration are:

- (I) To limit the probability of impedance in the creation plan of a firm for need of rough material, stock and additional items.
- (ii) To hold down capital interest in inventories. In this way it is of the substance to have fundamental inventories. Over the top stock is an ideal resource of a business establishment. The concern should reliably avoid this site. The interest in inventories should be just sufficient in the best level. The significant dangers of over the top inventories are:

- (I) The unnecessary restrict of the organization's trusts and loss of advantages.
- (ii) Excessive conveying cost, and
- (iii) The risk of liquidity.

1.4 INDUSTRY PROFILE

Aluminum Industry in India is an exceptionally thought industry with the best 5 organizations establishing most of the nation's creation. With the developing interest of aluminum in India, the Indian aluminum industry is additionally developing at a lucky speed. Indeed, the development of aluminum in India is right now outperforming the interest.

However India's per capita utilization of aluminum stands excessively low (under 1 kg) contrasting with the per capita utilizations of different nations like US and Europe (range from 25 to 30 kgs), Japan (15 kgs), Taiwan (10 kgs) and China (3 kgs), the interest is developing bit by bit. In India, the businesses that require aluminum most incorporate power (44%), buyer durables, transportation (10-12%), development (17%) and bundling and so on

The Background

However the presence of Aluminum was first settled in the year 1808, it required right around 46 years to make its creation economically suitable. The examination work of quite a while brought about separating the aluminum from the mineral. Aluminum is third most accessible component in the earth comprising practically 7.3% by mass. Presently it is likewise the second most involved metal on the planet after steel. Because of the steady development of Indian economy at a pace of 8%, the interest for metals, utilized for different areas, is likewise on the higher side. Therefore, the Indian aluminum industry is additionally developing reliably. In FY09, the aluminum business in India saw a development of around 9%.

The creation of aluminum began in India in 1938 when the Aluminum Corporation of India's plant was dispatched. Hindustan Aluminum Corporation (Hindalco) was set up in UP in the year 1959; by 1987, National Aluminum Company (NALCO) was authorized to create aluminum. It had a limit of delivering 0.218 million ton.

During the 1970s, the public authority began managing and controlling the Indian aluminum industry. Limitations in passage and cost dispersion controls were very normal in the Indian aluminum area. Aluminum Control Order was executed where the aluminum makers needed to sell half of their items for electrical utilizations. Be that as it may, in 1989, the request was taken out as the public authority decontrolling was denied. With de-permitting of industry in 1991, the liberal import of advancements and capital products was begun. The progression brought about a development pace of 12% of the business, contrasting with the development pace of 6% during the 1980.

Aluminum Production in India

India is world's fifth biggest aluminum maker with an aluminum creation ability of around 2.7 million tones, bookkeeping practically 5% of the all out aluminum creation on the planet. India is likewise an immense supply of Bauxite with a Bauxite hold of 3 billion tones.

The Production

India lies at the eighth situation in the rundown of driving essential aluminum makers on the planet. India saw a huge development in aluminum creation in the beyond five years. In 2006-07, the creation focus of aluminum in India laid by the Ministry of Mines, Government of India was 1,153 KT, which was increased to 1,237 KT in the following year (2007-08). Because of the developing interest from the development, electrical, vehicles and bundling industry, the creation of aluminum additionally climbed up. In FY 09, the absolute aluminum creation in India was around 1.35 tons.

The Consumption

After a stale utilization of essential aluminum in India from the finish of 1990s to 2002 (when the utilizations were between 500 - 600 KT), it began rising strongly beginning around 2002. The utilization came to at 1,080 KT in 2006. The utilization of aluminum in India is overwhelmed by the enterprises like power, framework, and transportation and so forth

The Major Players

The Indian aluminum industry is overwhelmed by four or five organizations that comprise most of India's aluminum creation. Following are the central parts in the Indian aluminum industry:

- Hindustan Aluminum Company (HINDALCO)
- Public Aluminum Company (NALCO)
- Bharat Aluminum Company (BALCO)
- MALCO
- INDAL

HINDALCO: Hindalco is the greatest player in the aluminum business in India with around 39% of piece of the pie. An Aditya Birla Group lead organization, Hindalco has its aluminum plant at Renukoot in Uttar Pradesh. It has different aluminum items with a portion of the overall industry of 42% in essential aluminum, 20% in expulsions 63% in moved items, 31% inhagglesinfoils.

Sterlite Industries: The aluminum business of Sterlite Industries Limited includes two Indian aluminum monsters - BALCO and MALCO. While BALCO is a somewhat coordinated, MALCO is a completely incorporated maker of aluminum. Sterlite has a piece of the pie of around 32%.

NALCO: It is likewise one of the main aluminum makers in India. Legislature of India has a stake of 87.15% in this organization. Its aluminum treatment facility is situated at Damanjodi. It additionally has a smelter situated at Angul, Orissa. As of now, NALCO is focusing on a capex program to expand its creation from 345,000 tons to 460,000 tons. - See more at: <http://business.mapsofindia.com/aluminum/#sthash.LWXX9FMj.dpuf>

- The most financially mined aluminum mineral is bauxite, as it has the most elevated content of the base metal. The essential aluminum creation process comprises of three phases. First is mining of bauxite, trailed by refining of bauxite to alumina lastly purifying of alumina to aluminum. India has the fifth biggest bauxite saves with stores of around 3 bn tons or 5% of world stores. India's portion in world aluminum limit rests at around 3%. Creation of 1 ton of aluminum requires 2 tons of alumina while creation of 1 ton of alumina expects 2 to 3 tons of bauxite.
- The aluminum creation cycle can be sorted into upstream and downstream exercises. The upstream interaction includes mining and refining while the downstream cycle includes purifying and projecting and manufacturing. Downstream-created items comprise of bars, sheets, expulsions and foils.
- Power is among the biggest expense part in assembling of aluminum, as the creation includes electrolysis. Subsequently, producers are situated close to modest and plentiful wellsprings of power, for example, hydroelectric power plants. On the other hand, they could set up hostage power plants, which is the example in India. Indian makers are the least expense makers of the base metal because of admittance to hostage power, modest work and vicinity to plentiful inventory of unrefined substance, i.e., bauxite.
- The Indian aluminum area is described by huge incorporated players like Hindalco and National Aluminum Company (Nalco). Different makers of essential aluminum incorporate Bharat Aluminum (Balco), an auxiliary of Vedanta Resources.
- Aluminum offers an interesting mix of significant properties. It is multiple times lighter than Iron however is nearly just about as solid as steel, very adaptable and erosion safe because of flimsy surface layer of aluminum oxide. Aluminum has been consistently tracking down new applications because of rising cost ability, better weight than strength proportion, erosion opposition, formability, soginess and so on.
- On the modern side, aluminum is intensely utilized in electrical power transmission, hardware and gear, and development. Lodging, specifically, utilizes the lightweight material as a substitute for steel and wood in entryways, windows and siding. On the shopper side, aluminum is utilized in an assortment of retail items, including jars, bundling, climate control systems, furniture and vehicles.

HOW TO RESEARCH THE ALUMINIUM (KEY POINT)

- **Supply**

Supply of aluminum is in abundance and any inadequacy can be imported at low rates of responsibility. At this point, the interest is reliable while supply is in flood.

- **Request**

Interest for aluminum is reviewed to make at 6%-8% per annum pondering the low per capita use in India. In addition, interest for the metal is relied on to get as the situation improves for client associations, similar to power, foundation and transportation.

- **Cutoff points to area**

Colossal economies of scale. Thusly, high capital expenses.

- **Haggling force of providers**

Most neighborhood players work melded plants. Fighting power is restricted if there should arise an occasion of force buy, as Government is the essential provider. All things considered, developing utilization of detainee power plants (CPP) will assist with shielding power costs for a specific degree at last.

- **Haggling force of clients**

Being a thing, clients like somewhat high exchanging power, as yet hanging out there on requesting and supply.

- **Rivalry**

Rivalry is on an exceptionally essential level on quality and cost, a lot of like a thing, parcel is tricky. In any case, the new spate of mix has reduced the real strain in the business. Further, developing respect advancement to aluminum things has assisted a few relationship with protecting themselves from the high volatilities found in this industry.

FINANCIAL YEAR '15

- The thing exhibits, and explicitly the aluminum business, are going through a troublesome stage at present considering the sharp slide in recognize.
- During the last quarter of FY15, raised risk averseness incited dumping of products regardless of your perspective. The resultant climb in US\$, joined with flooding Chinese items following moving back demand advancement in China achieved a sharp lessening in LME, which dropped distinctly by basically 10%. This was furthermore went with basic diminishing in commonplace premium, achieving a colossal abatement in exhaustive aluminum recognize descending on edges.
- Aluminum costs on LME have declined distinctly over the latest two or three months in view of combination of many elements, for instance, expanded risk averseness, European region weakness associated with Greece, moving back demand improvement from China and rising items from it.
- The charges across the locale have declined over 70%. This was fundamentally a direct result of immense stock de-stacking, which was the delayed consequence of pass trade turning out on to be less charming, which subsequently can be credited to various elements, for instance, change in LME warehousing rules, smoothing of forward twist coming to fruition into decline in contango, fixed authoritative environment that dissuaded warehousing and moving toward phantom of Fed growing advance charges achieving higher financing costs.
- Due to above reasons, Realizations have declined unequivocally actually on account of excess supplies. The present circumstance could happen for quite a while and therefore over present second, recognize may remain under pressure.
- Overall interest for aluminum has by and large would in everyday beat that for various metals. The delicate expense presentation in a part of the new years has been more a result of supply side progressions than any issues with demand. In 2014, overall aluminum use rose 5.5% YoY, the fastest speed in three years, despite the respite in Chinese usage advancement to around 8%.
- China addressed 44% of overall fundamental aluminum use in 2014, up from 23% in 2005. As the country continues to make towards a more customer focused economy, aluminum use is depended upon to end up being more buyer driven. Aluminum use in the USA has recovered well since the financial crisis, climbing by over a third in the five years

to 2014. At any rate use really remains 20% underneath pre-crisis high levels. European interest has endeavored to fill lately, as it has been affected by the consistent monetary stoppage.

- Indian aluminum demand rose by 38% in the five years to 2014. India is by and by the world's fifth-greatest client of aluminum, behind China, the USA, Japan and Germany, and it is generally expected that the strong interest basics might conceivably raise the country to the No. 3 circumstance by 2016.

PROSPECTS

- The Indian recuperation is recuperating and the economy is relied upon to develop at more than 7.5% in FY16 and FY17. This would bring about aluminum request development by virtue of more grounded utilization and speculation. The public authority's pushed on power area that went through a difficult stage looks good for aluminum industry as power area is a solid interest driver for aluminum utilization in India.
- The US request is relied upon to stay solid developing at a CAGR of 4-5% over next couple of years, as the lodging recuperation acquires foothold, vehicle deals proceed to improve and aluminum request benefits from new applications, especially in the auto area. Western Europe is relied upon to develop tolerably in the midst of financial vulnerability. The aluminum request is relied upon to develop at around 2.5%
- In 2015, Chinese aluminum request is relied upon to develop at around 6-7%, a significant stoppage from the twofold digit increment of the previous ten years. Request development will be most grounded in purchaser related areas.
- In present moment, Chinese stockpile is relied upon to keep on affecting Rest of the World interest supply elements unfavorably. Anyway in long haul, in general the interest supply situation for essential aluminum internationally looks empowering as request keeps on being vigorous with assumptions for around 6% development.
- On the positive side, the decrease in costs of unrefined subordinates in the new months is relied upon to help on the expense front. In the new quarters, coal accessibility in India is giving indications of progress. With the normal development in result of public area coal mining organizations and the reasonable operationalization of hostage coal blocks, coal

accessibility in the nation might work on further, which will facilitate the expense side tensions..

1.5 COMPANY PROFILE

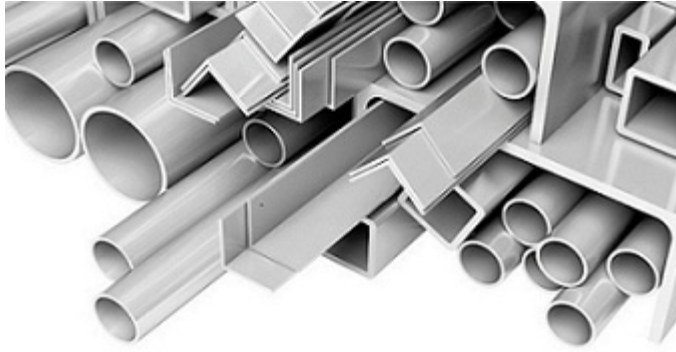
Alloysys Extrusion [P] Ltd appeared in 2005. The excursion from assembling aluminum expulsion to becoming probably the best creator of Quality Aluminum Extrusions have been loaded up with achievements and awards. Alloysys Extrusion means to have a worldwide presence as a main worldwide maker of great Aluminum expelled items. The undertakings of the association are engaged towards accomplishing all over greatness. The association looks to achieve a combination of conventional techniques and inventive ideas to supply the best quality expelled item. Alloysys Extrusion makes wide assortment Aluminum expulsions like expelled channel, expelled segment or expelled profile that meet broadened use.

Alloysys Extrusion has been keeping up with its most extreme principles of accuracy and quality and established on the way of thinking of guaranteeing solid fulfillment to our clients. We have great time conveyance of all the flexible expulsion items and these items are adding another aspect to the cutting edge building development innovation and to our business. Alloysys Extrusion [P] Ltd as the recognized market pioneers have set up benchmarks for quality, convenient conveyance and client fulfillment. We have an extraordinary blend of being adaptable and a capacity to respond rapidly to changes in plans and determinations. This has guaranteed that our items and administrations to every one of our clients have been acclaimed globally. All along, we have consistently had a solid underpinning of flexibility and experience. Continuously working intimately with clients, we have fostered our items and administrations on top of the market advancements and prerequisites.

Meeting with customer's need and satisfaction is the true achievement

Alloysys Extrusion accepts and follows this main assertion at the hour of assembling the items. This thought has assisted Alloysys Extrusion with setting an unmistakable picture towards organization's objective. Alloysys Extrusion is good to go to have a wide scope of all sort expulsions in not so distant future. Alloysys Extrusion have notable in eastern piece of the country.

WHAT WE CAN OFFER YOU



ALLOYSYS EXTRUSION currently has automatic hydraulic presses with a production capacity of 3,000 MT per annum. The company offers the standard aluminium extrusions profiling and also is able to take care of specific designs and requirements.



OUR CAPABILITIES

- Robotized Hydraulic Extrusion Presses
- Limit: 3000 MT for every annum
- Kick the bucket Library: 1000
- profiles going from 10mm - 150 mm CCD
- Segment weight up to 17 kg for each piece
- Divider thicknesses least 0.5mm - 20 mm
- Slice lengths up to 6-7m

- Standard compound reaches

MISSION:

To turn into the most favored aluminum expulsion organization, zeroing in on assembling the great expelled items with amazing help reliably.

VISION:

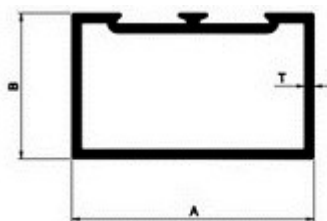
We will create excellent aluminum expulsions with our hierarchical extension so we will generally have the option to live up to the assumptions of our all business related individuals and extraordinarily our buyers.

1.6 PRODUCTS

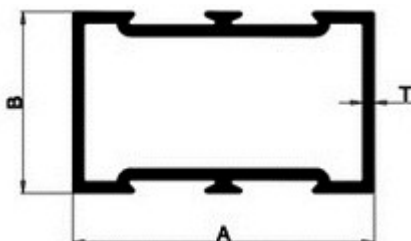
1. Architectural

A) ALUMINIUM EXTRUDED DOOR PARTITION SERIES

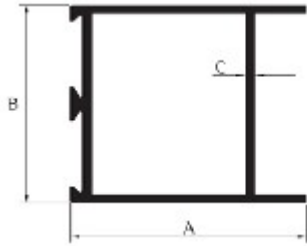
- All
- Partitions
- Middle Section
- Top Bottom



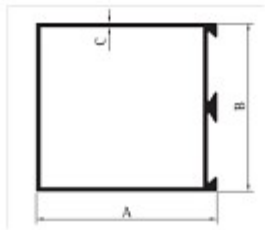
Single Partition



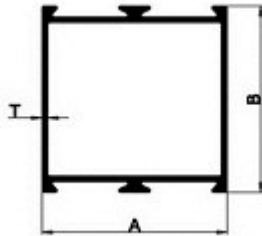
Double Partition



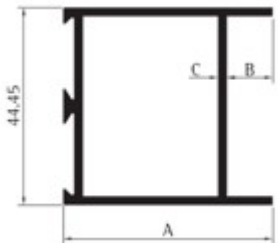
Door Top



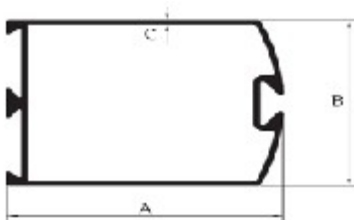
Door Middle Single



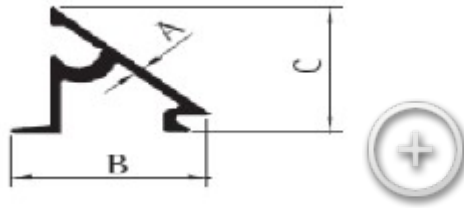
Door Middle Double



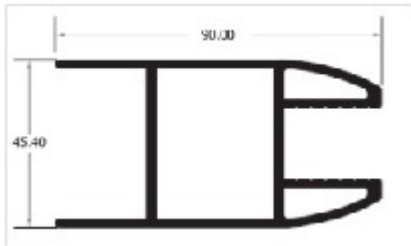
Door Bottom



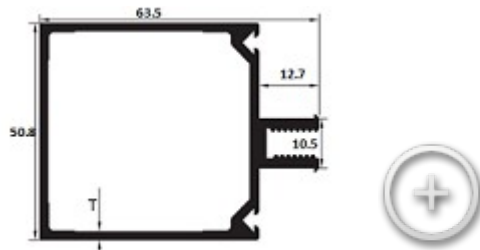
Door Vertical



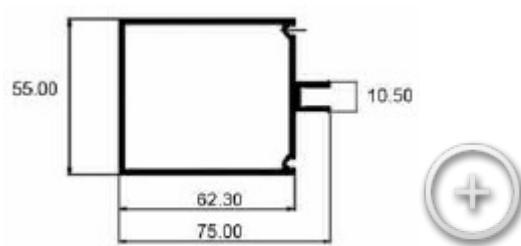
Glazing Clip



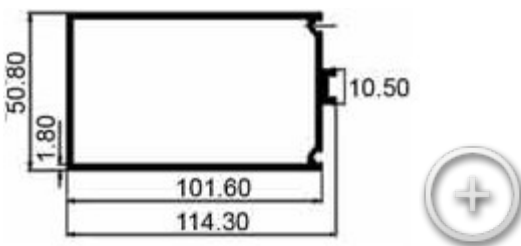
B) ALUMINIUM EXTRUDED CURTAIN WALL SERIES



Curtain Wall Section 1423

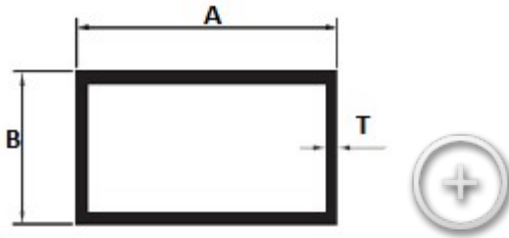


Curtain Wall Section 1426

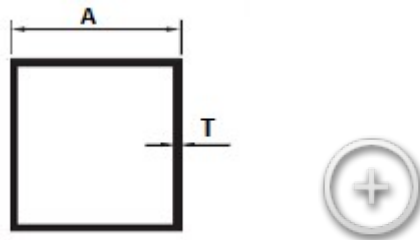


Curtain Wall Section 1431

C) ALUMINIUM EXTRUDED HOLLOW SECTION SERIES



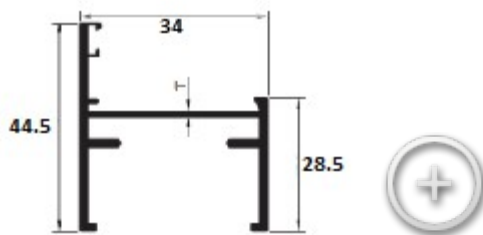
Rectangular Tube



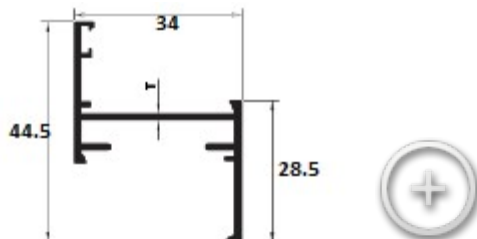
Square Tube

D) ALUMINIUM EXTRUDED OPENABLE WINDOW SERIES

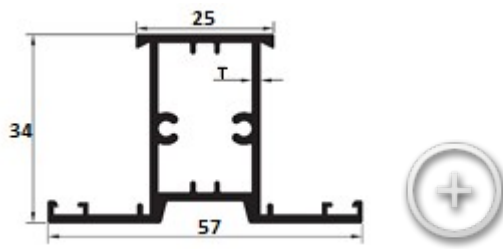
- All
- 34 Series
- 40 Series
- Cleat Angle



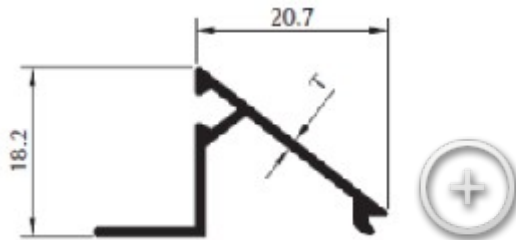
34 Series Outer Frame



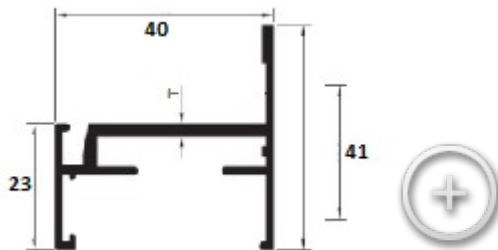
34 Series Shutter Frame



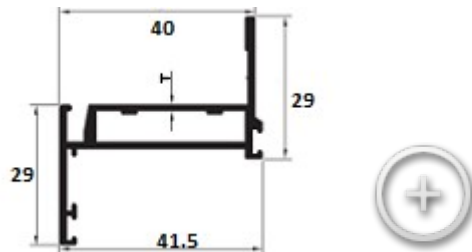
34 Series Mullian



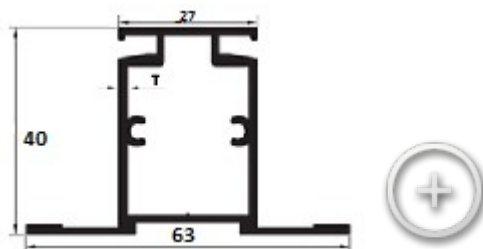
34 Series Clip



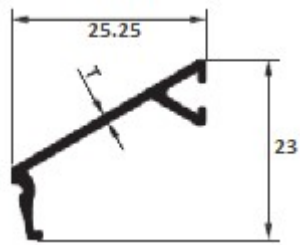
40 Series Outer Frame



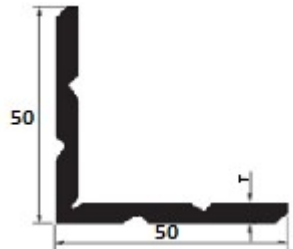
40 Series Shutter Frame



40 Series Mullian

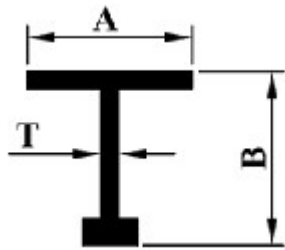


40 Series Clip



Cleat Angle

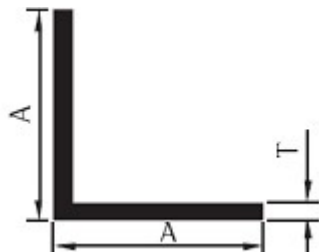
E) ALUMINIUM EXTRUDED TEE SERIES



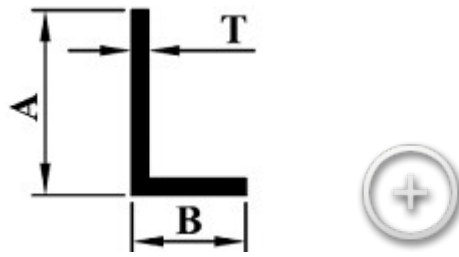
Bulb Tee

2. Industrial

A) ALUMINUM EXTRUDED ANGLE SECTION SERIES

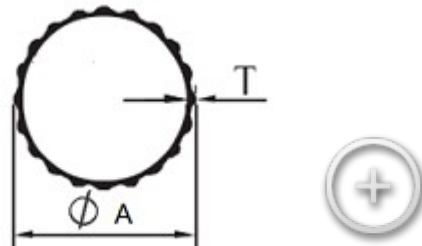


Equal Angle

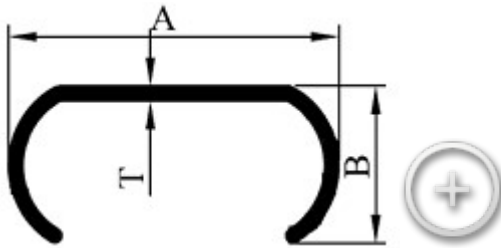


• **Unequal Angle**

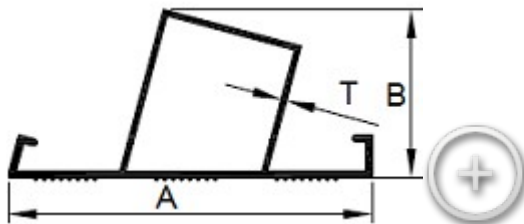
B) ALUMINUM EXTRUDED LADDER SECTION SERIES



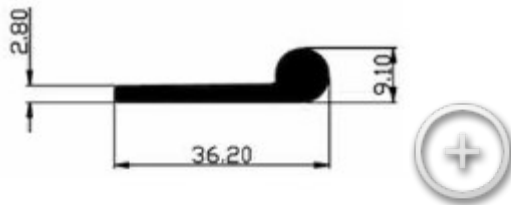
• **Fluted Tube**



• **C Section**

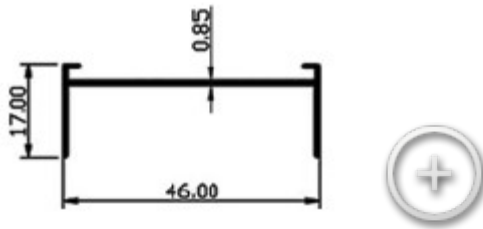


• **Stapazing**

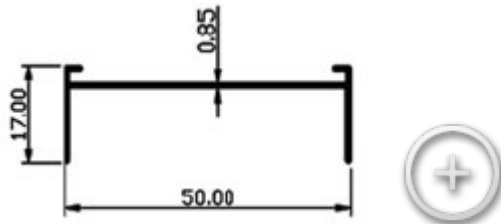


• **Hinge**

C) ALUMINUM EXTRUDED WATER CHANNEL SECTIONS

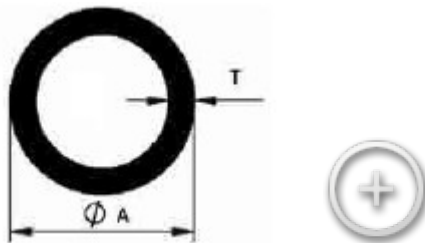


• **Water Channel Section 7506**



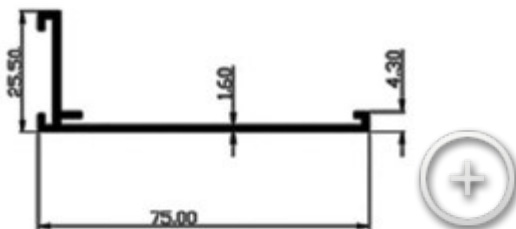
• **Water Channel Section 7511**

D) ALUMINUM EXTRUDED ROUND TUBE



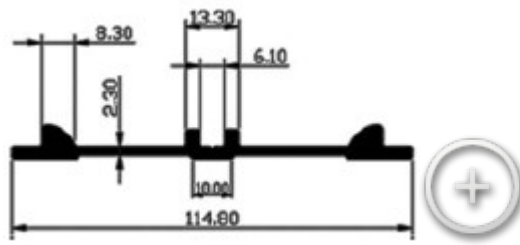
• **Round Tube**

E) ALUMINUM EXTRUDED L SECTIONS



• **L Section**

F) ALUMINUM EXTRUDED DOUBLE ROLLER SECTIONS



Double Roller Section

1.7 CUSTOM EXTRUSION

1. INDUSTRY SPECIALIZATION

Aluminum extrusion innovation in current businesses keeps on being a topic of conversation and assessment concerning its application to the work space. The interest for and utilization of aluminum extrusion in design and in the production of auto mobiles, little machine parts, primary part and particularly airplane, have expanded enormously, and rivalry in this industry is extreme. The extrusion business is presently in excess of 100 old.

Modern Uses: Aluminum is utilized broadly in practically incalculable application due to its high strength joined with low thickness. Additionally it is erosion impervious to the climate as a slender film of aluminum oxide structures over aluminum surfaces which shield it from additional consumption. Likewise, aluminum is non-harmful making it appropriate for application including contact with food items.

The most broad and greatest utilization of aluminum is in pressing. It utilized for pressing in different structures like jars, thwarts, cylinders, and jug tops. Second greatest utilization of expelled aluminum is in transportation. Aluminum expelled areas are broadly utilized in most vehicle vehicles. It is especially appropriate for planes. A cutting edge plane contains around 80% aluminum by weight; A Boeing 747 contains around 75 tons of aluminum.

Electrical transmission is one more exceptionally enormous application region for aluminum. It has around 63% of electrical conductivity of copper yet just a portion of the thickness. That makes it an exceptionally alluring substitute for copper in electric links and transmission lines. Specific for exposed guides of transmission lines, aluminum is the main decision.

Aluminum tracks down exceptionally enormous application in development industry as shaping Architectural channels or segments of window and door jambs, cladding, and material. Aluminum is likewise utilized for painting different surfaces. Aluminum is additionally utilized broadly for

making a la mode and light weight furniture. It is especially well known for collapsing and other sort of furniture which is expected to be moved and put away oftentimes.

2. THE EXTRUSION PROCESS

Expulsion is a plastic distortion process in which a square of metal (billet) is compelled to stream by correlation through the kick the bucket opening of a more modest cross - sectional region than that of the first billet. Expulsion is a backhanded - pressure process. Aberrant - compressive powers are created by the response of the work piece (billet) with the compartment and bite the dust brings about high qualities. The response of the billet with the compartment and kick the bucket brings about high compressive anxieties that numerous breakdowns from the billet. Expulsion is the best technique in light of the fact that the billet is exposed to compressive powers as it were. Expulsion can be cold or hot, contingent upon the composite and the strategy utilized. In hot expulsion, the billet is preheated to work with plastic twisting. Customary Direct Extrusion: The most significant and normal technique utilized on aluminum expulsion is the immediate cycle. In this interaction, the standard of direct expulsion, the billet is set in the compartment and moved through the bite the dust by the slam pressure. Direct expulsion finds application in the production of aluminum strong rods, aluminium bars, empty cylinders, and empty and strong areas as indicated by the plan and state of the bite the dust. In a similar heading as smash travel. During this interaction, the billet slides comparative with the dividers of the compartment. The subsequent frictional power expands the smash pressure extensively. During the immediate expulsion, the heap or tension - relocation bend most generally. Customarily, the cycle has been portrayed as having three unmistakable areas:

- The billet is upset, and tension ascents quickly to its pinnacle esteem.
- The strain diminishes, and what is named "consistent state" expulsion continues.

3. EXTRUSION IDEA TO OBJECT

"Addressing with client's need and fulfillment is the genuine accomplishment", we additionally accept and follow this main assertion at the hour of assembling our expelled items

The cycle starts with the need or interest of an Extruded profile. When the need shows up, it requests explicit pass on for that expulsion item which brings about the creation of explicit kick the bucket for the item After getting the bite the dust, at last the creation period of that specific expelled item happens in plant under the interaction.

1.8 QUALITY MANAGEMENT

1. QUALITY CONTROL AND COMPLIANCES

At Alloysys Extrusion, we don't mull over quality, we walk an extra mile to help the quality. What we have done is that we have standardized the course of significant worth consistence checks. The quality consistence tests are not done heedlessly yet it is a conspicuous cycle finished reliably at each period of creation. A goof doesn't transform into a blunder until you won't right it. With this standard the Alloysys Extrusion has set up an absolute detectability structure to follow down the primary driver of deviation, would it be prudent for them they wind up occurring. We are totally equipped with the fundamental specific inclination and quality control framework, which drives us to meet even the mass solicitations of the clients really. Likewise, our streamlined association, ordinary ensuing meet-ups with the clients and rapid solicitation dispatch has enabled us to win the certainty and trust of the clients.

Alloysys ejections is allowed ISO 9001:2008 Certification by worldwide office norsk akkreditering of norway for its quality organization standards.

2. TECHNICAL SPECIFICATION

Aluminum is a delicate, strong, lightweight, flexible and moldable metal with appearance going from gleaming to dull dark, contingent upon the surface harshness. Aluminum is nonmagnetic and doesn't effectively touch off. A new film of aluminum film fills in as a decent reflector (around 92%) of apparent light and a phenomenal reflector (as much as 98%) of medium and far infrared radiation. The yield strength of unadulterated aluminum is 7-11 MPa, while aluminum amalgams have yield qualities going from 200 MPa to 600 MPa. Aluminum has around 33% the thickness and solidness of steel. It is effortlessly machined, cast, drawn and expelled. Erosion opposition can be brilliant because of a meager surface layer of aluminum oxide that structures when the metal is presented to air, really forestalling further oxidation. The most grounded aluminum composites are less consumption safe because of galvanic responses with alloyed copper. This erosion opposition is likewise frequently extraordinarily decreased when numerous fluid salts are available, especially within the sight of divergent metals. Aluminum is one of only a handful of exceptional metals that hold full shiny reflectance in finely powdered structure, making it a significant part of silver-hued paints.

WHAT OUR PRODUCTS OFFER WITH RESPECT TO THE TECHNICAL SPECIFICATION

- Consumption Resistant
- High Strength-to-Weight Ratio
- Simplicity of Fabrication
- Simplicity of Fastening and Assembly
- Adaptability in Joining
- Solid, Resilient and Strong and so on.

3. USES

Aluminum is quite often alloyed, which particularly works on its mechanical properties, particularly when tempered. For instance, the normal aluminum foils and drink jars are composites of 92% to almost 100% aluminum. The primary alloying specialists are copper, zinc, magnesium, manganese, and silicon (e.g., duralumin) and the levels of these different metals are in the scope of a couple of percent by weight. With totally new metal items, the plan decisions are in many cases administered by the decision of assembling innovation. Expulsions are especially significant in such manner, attributable to the simplicity with which aluminum combinations, especially the Al-Mg-Si series, can be expelled to shape complex expelled profiles.

CHAPTER-2

REVIEW OF LITERATURE

A daily schedule of subjects has been acted in the area of stock summary organization by a couple of experts. A portion of these are condensed under:

Accomplishment of any advanced endeavor depends on the 6 M's 1) Money

2) Manpower 3) Machine 4) Material 5) Market 6) Management

Materials are huge importance at minimum some other M's. Issues have their root in

Material impacts the efficiency, everything being equal, machine, cash and advancing decisions of the associations and likewise get the authentic concern of organization at all floors. If there were likewise a lot of material issues like amazing trusts arranged in superfluous stock amassing and obsolesces difficulties business area weight would rise. From this time forward the meaning of stock once-over organization has been seen.

A daily schedule of subjects has been acted in the district of stock summary organization by a couple of researchers. Some of them are given underneath;

1. Author: - Bern at de William year 2008

This outline says that the essential focus of stock organization is on transportation and warehousing. The decision got by organization depends on upon the regular methodology for stock control representations. The traditional strategy for stock organization is how much supportive in these days the maker tell about it. He is in like manner communicating that the ordinary procedure isn't a cost lessening, it is so much exorbitant. Anyway, the managing the stock is more basic work for any gathering unit.

2. Creator: - Jon Schreibfeder 1992

He said that it is anything but difficult to transform money into stock, the test is to transform stock over into money. In mid 1990's numerous merchants perceive that

they required help controlling and bringing off their biggest resource stock. In answer to this need, a few organizations created thorough stock administration modules and frameworks. These new programming frameworks incorporate numerous novel elements intended to help merchants successfully oversaw stockroom stock. When experiencing this numerous wholesalers don't feel that they have picked up authority of their stock.

3. Creator: - Wolf Bagby, Managing stock

In this study Mr. W.Bagby clarifies that by dealing with the stock it gets to be simpler for the association to meet the benefit objectives, shorter the money cycle, evade stock lack, maintain a strategic distance from over the top conveying expenses for unused stock, and enhance gainfulness by diminishing the money change and embrace a JIT framework. As per this study organizations need to get brilliant about stock. Boosting money related execution is another advantage that originates from better stock administration. Contaminate huge number of makers appreciate investment funds and better execution by picking the methodology of stock decrease. For this organization needs to expand the income and productivity and this incorporates keeping an attentive observing eye on charge in supply and request

4. Creator: - Asfaque Ahmed October 12, 2004

(Article from expert prerequisite arranging and ace creation booking)

He said that a large portion of the assembling organization merchants have arranging and booking item which accept either limitless creation limit for computing amounts of crude material and work in advancement (WIP) necessities or unending amounts of crude material and WIP materials for figuring generation limit. There are numerous issues with this methodology and how to keep away from these by verifying that the item you are purchasing for sure considers limited quantities of obliged materials and additionally limited limits of work focuses in your assembling offices.

5. Creator: - D. Hoopman April 7, 2003

(Article from stock arranging and advancement)

In this article he said that stock advancement perceive that distinctive industry have diverse stock profiles and prerequisites. Exploration has shown that arrangements are estimated in an expansive extent from a huge number of dollars to a large number of dollars. In this corner business sector segment cost is without a doubt not a pointer of the nature of arrangement, ROI and ease of use are principal.

6. Creator: - Silver, Edward A Dec22, 2002

(Article from creation and stock administration diary)

This article considers the setting of a populace of things for which the presumption hidden the EOQ inference holds sensibly well. Then again, as is regularly the trade out the practices there is a total requirement that applies to the populace all in all. Two basic types of requirements are:

- 1)The financial backing's presence to be dispensed among the things' supplies and
- 2) A buying, generation office having the ability to process at most a sure number of recharging every year. In light of the imperative the individual renewal amounts can't be chosen autonomously.

7. Creator: - Charles Atkinson

(A study on stock administration)

In the study by Mr. Charles Atkinson, he clarified the stock administration and appraisal of stock levels. According to this study stock administration need to address two issues

Part I. Instructions to streamline normal stock levels.

Part II. Instructions to survey (assess) stock levels.

This study tells about what the director ought to and not to do, and the amount of sum ought to be requested in one set requests. Normal stock can be computed by oversimplified technique.

Normal stock = starting stock +end stock/2

8. Creator: - Delaunay C, Sahin E, 2007.

A great deal of work has been done, however now in the event that we need to proceed, we must have great perceivability upon this field of examination. That is the reason we concentrated on a system for a comprehensive audit on the issue of production network administration with stock errors. The creator said that their point in this work is additionally to exhibit the most imperative measure that permits a refinement between the diverse sort of dealing with the stock.

CHAPTER-3

STATEMENT OF OBJECTIVES

3.1 OBJECTIVES

PRIMARY OBJECTIVES

To distinguish the stock's effectiveness administration at Allosys Extrusion Pvt Ltd

SECONDARY OBJECTIVES

- a.To comprehend the view of workers towards the stock administration
- b.To comprehend the elements bringing about the abundance stock inside of the association.
- c.To discover the elements for the low stock turnover proportion
- d.To survey the generally utilized stock administration technique
- e.To recognize the suitable measures to defend the great from robbery

3.2 NEED FOR THE STUDY

This is required by the firm for:

1. To keep away from unnecessary and deficient levels of inventories in the organization.
2. To increase Consumer Satisfaction through Short, convenient conveyance.
3. To keep up an adequate stock in the organization for the smooth creation and self Operations.
4. To maintain the business operations of the organization in smooth and adequate way.

3.3 SCOPE OF THE STUDY

- To give the arrangement to the organization what to arrange, when to arrange and the amount to arrange
- It is helpful for choosing working strategy and volume of stock.
- It serves to build up the strategies for the officials in stock.
- The undertaking serves to manage determining in stock.

3.4 LIMITATIONS OF THE STUDY

- A registration review is unrealistic because of the time period so I have chosen test study
- There is a probability of examining slips in the study.
- The reactions of the buyers may not be bona fide.
- The inquiries included in the poll may not be understood.
- Some of the data was private, so much data was not uncovered
- Availability of the respondents in the midst of their occupied calendar did not allow definite study.
- Lack of expert methodology since the specialist is an understudy.
- The test size is just 130 so the example may not be really illustrate of the total population

CHAPTER-4

RESEARCH METHODOLOGY

The examination approach is one of the primary parts of extremely research. This clarifies how the analyst leads this undertaking. The word examination demonstrates the mode or the method for fulfilling an end. The cutting edge world is loaded with experimental creations and looks for an investigative viewpoint to everything. Any experimental methodology ought to have a technique or diagram to be taken after to accomplish a specific objective. Through methodological, methodical strategy, we can consider exactness and an obvious conclusion. There is no order without a philosophy. The approach received in this study is talked about beneath to sum things up.

4.2 RESEARCH DESIGN:

An examination outline is the game plan of conditions for the gathering and investigation of information in a way that intends to consolidate pertinence to the exploration reason.

4.3 RESEARCH STUDY

Clear sort of exploration has been received for this examination and portrayal of a marvel or qualities connected with the populace are likewise managed.

4.4 STATISTICAL TOOLS USED:

Chi Square, Correlation, One way ANOVA.

4.5 SAMPLE SIZE:

The example strategy is utilized for the exploration is a Judgmental examining system.

Universe Size is **380**

Sample Size is **130**

4.6 RESEARCH INSTRUMENT

The researcher constructed a structured questionnaire for data collection.

4.7 METHOD OF COLLECTION OF DATA:

➤ **Primary Data**

Essential information are gathered through Questionnaire.

➤ **Secondary Data**

Significant information has likewise been taped from past examination papers, articles and daily papers were additionally alluded.

4.8 ANALYTICAL TOOLS

ANALYSIS USING KARL PEARSON'S CORRELATION:

Relationship investigation is the factual apparatus used to quantify how much two factors are directly connected with one another. Connection estimates the level of relationship between two factors. The Pearson item second connection coefficient is a proportion of the strength and heading of affiliation that exists between two factors estimated on at minimum a stretch scale. It is signified by the image r .

$$r = \frac{N\sum XY - \sum X \sum Y}{\sqrt{N\sum X^2 - (\sum X)^2} \sqrt{N\sum Y^2 - (\sum Y)^2}}$$

CHI- SQUARE TEST I – (χ^2)

A chi-squared test, likewise alluded to as chi-square test or χ^2 test, is any factual theory test in which the inspecting dispersion of the test measurement is a chi-squared dissemination when the invalid speculation is valid, or any where this is asymptotically evident, implying that the examining appropriation (assuming the invalid theory is valid) can be made to estimated a chi-squared conveyance as intently as wanted by making the example size sufficiently enormous.

The χ^2 test was first utilized by Karl Pearson in the year 1980. The amount χ^2 portrays the greatness of the inconsistency among hypothesis and perception.

It is calculated using:

$\chi^2 = \sum [(O - E)^2 / E]$ with $(n - 1)$ levels of opportunity. Where, alludes to the noticed recurrence and to the normal frequencies. χ^2 was utilized as a trial of freedom and decency of fit.

WEIGHTED AVERAGE

Weighting is one more term for test adjusting. During an overview, it is preposterous to expect to meet with everybody, so just an example of the populace is evaluated. In the event that this example bunch doesn't precisely mirror the extents of different gatherings in the complete populace, you can weight the review results.

T- TEST

T Test is many times called Student's T test for the sake of its organizer "Understudy". T test is utilized to analyze two different arrangement of values. It is for the most part performed on a little arrangement of information. T test is by and large applied to typical conveyance which has a little arrangement of values. This test looks at the mean of two examples. T test utilizes means and standard deviations of two examples to make a correlation. The recipe for T test is given beneath:

$$t = \frac{\bar{x}_1 - \bar{x}_2}{\sqrt{\frac{S_1^2}{n_1} + \frac{S_2^2}{n_2}}}$$

1.

Where,

$\bar{x}_1$ = Mean of first set of values

$\bar{x}_2$ = Mean of second set of values

S_1 = Standard deviation of first set of values

S_2 = Standard deviation of second set of values

n_1 = Total number of values in first set

n_2 = Total number of values in second set.

The formula for standard deviation is given by:

$$2. \quad S = \sqrt{\frac{\sum (x - \bar{x})^2}{n - 1}}$$

Where,

x = Values given

$\bar{x}$ = Mean

n = Total number of values.

PERCENTAGES

Rates imply a particular sort of degree. Parts are used as a piece of drawing assessments between at least two course of action of data. Rates are used to depict associations, it is imparted as.

$$\text{Rate} = (\text{no of workers/all out no of representatives}) 100$$

Outlines:

Outlines are reasonable introductions of information for direct view of relative places that isn't all around imaginable with clear words or numbers. The types of outline commonly utilized as a business' division information show are: Bar and pie.

BAR CHARTS:

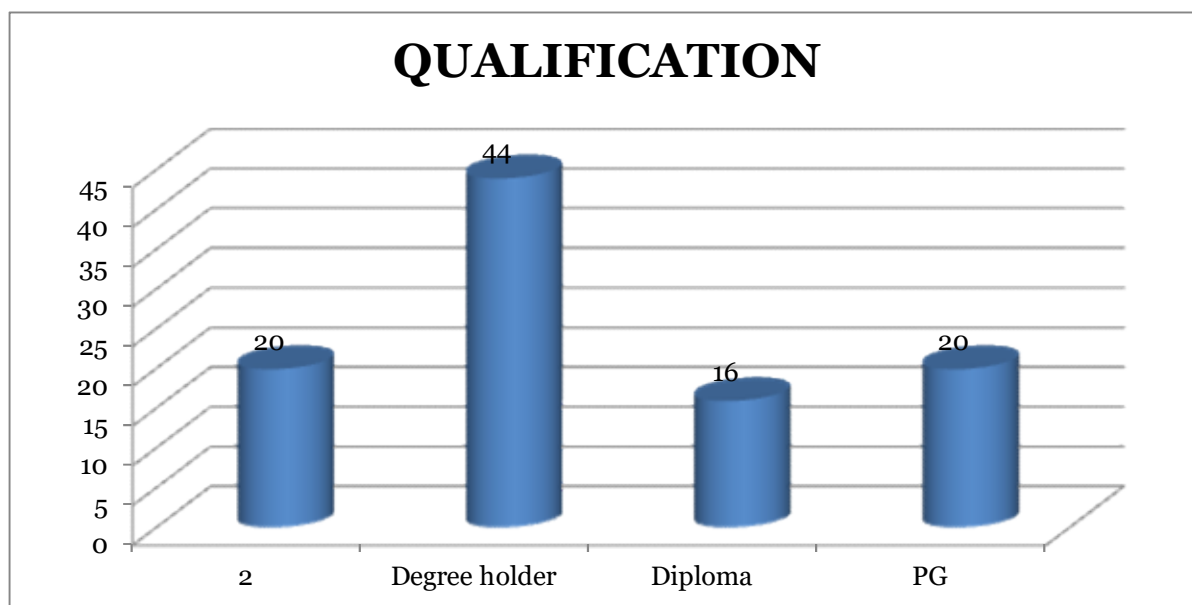
The bar outline is regularly used for show of abstract data. The data can be persevering or discrete information, which are plotted against discrete information spans. The upward bar outline, in addition called visual graph where the length or height of the singer address the mathematical estimation of the occasion or assessment. Width or crevice between the bars is of no imperativeness to the bar design information, despite they are uniform in a chart.

CHAPTER 5: DATA ANALYSIS AND INTERPRETATION

TABLE 1 QUALIFICATION

S. No	PARTICULARS	RESPONDENTS	PERCENTAGE
1	+2	26	20
2	Degree holder	57	44
3	Diploma	21	16
4	PG	26	20
	Total	130	100

CHART 1



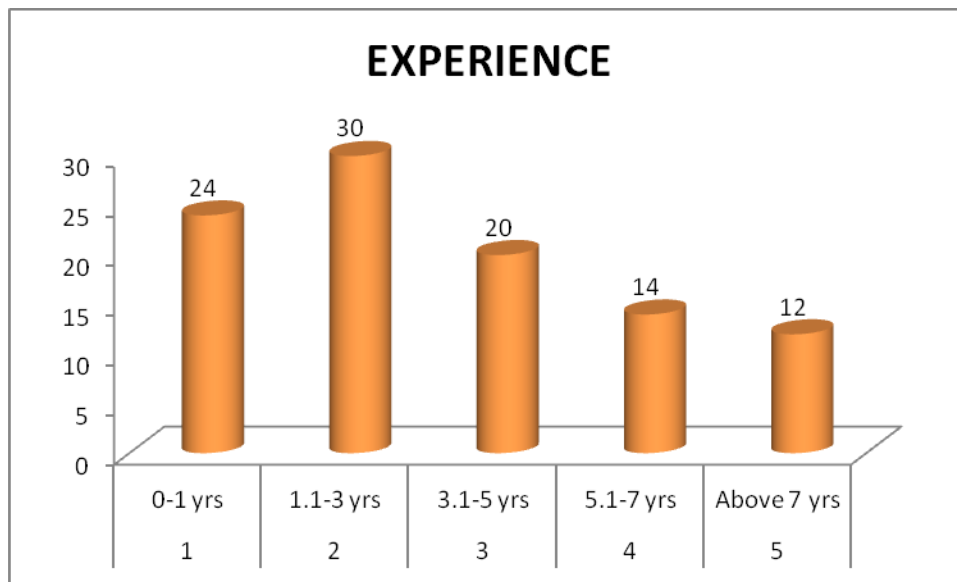
INFERENCE:

From the above table, 44% of the respondents are degree holder and 20% of the respondents are Post graduate and higher secondary.

TABLE 2 EXPERIENCE

S. No	PARTICULARS	RESPONDENTS	PERCENTAGE
1	0-1 yrs	31	24
2	1.1-3 yrs	39	30
3	3.1-5 yrs	26	20
4	5.1-7 yrs	18	14
5	Above 7 yrs	16	12
	Total	130	100

CHART 2



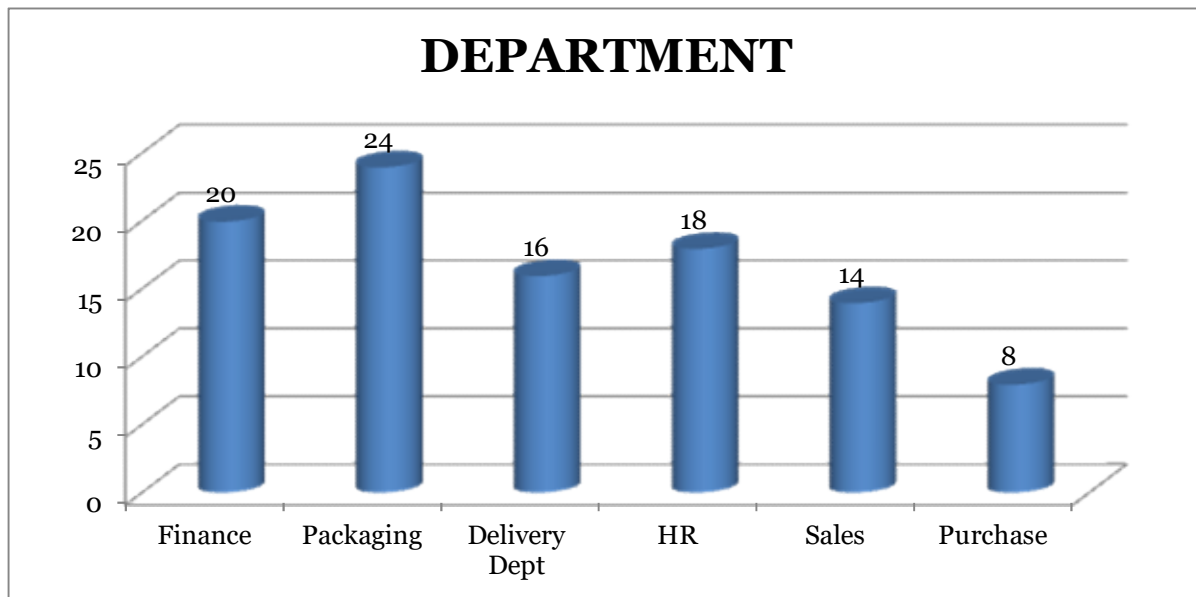
INFERENCE:

From the above table we find, 30% of the respondents are having 1.1-3 years of experience, 24% of the respondents are between 0-1 years of experience

TABLE 3 DEPARTMENTS

S. No	PARTICULARS	RESPONDENTS	PERCENTAGE
1	Finance	26	20
2	Packaging	31	24
3	Delivery Dept	21	16
4	HR	24	18
5	Sales	18	14
6	Purchase	10	8
	Total	130	100

CHART 3



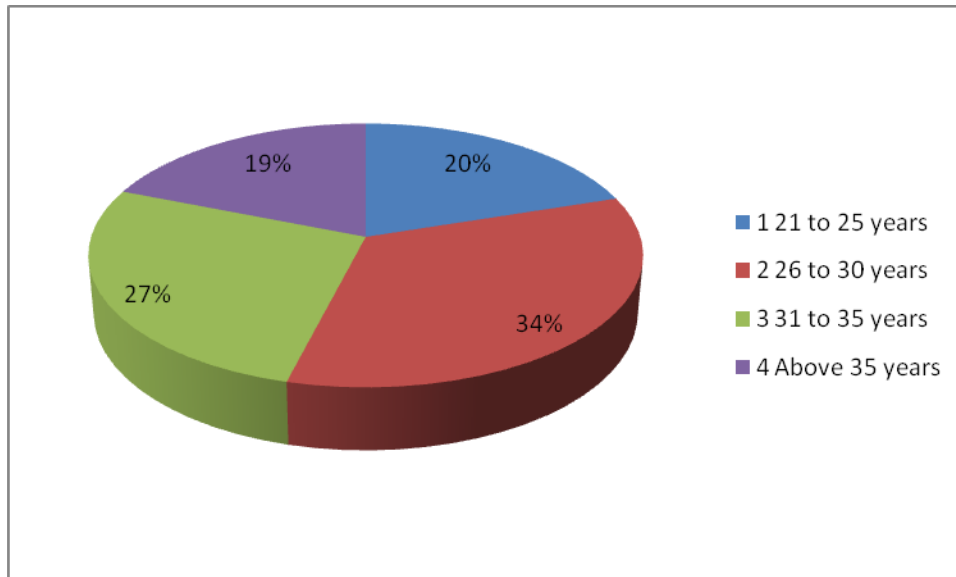
INFERENCE

From the above table we find, 24% of the respondents are in the Packaging department and 18% of the respondents are in the HR department.

TABLE 4 AGE

S. No	PARTICULARS	RESPONDENTS	PERCENTAGE
1	21 to 25 years	26	20%
2	26 to 30 years	44	34%
3	31 to 35 years	35	27%
4	Above 35 years	25	19%
	Total	130	100%

CHART 4



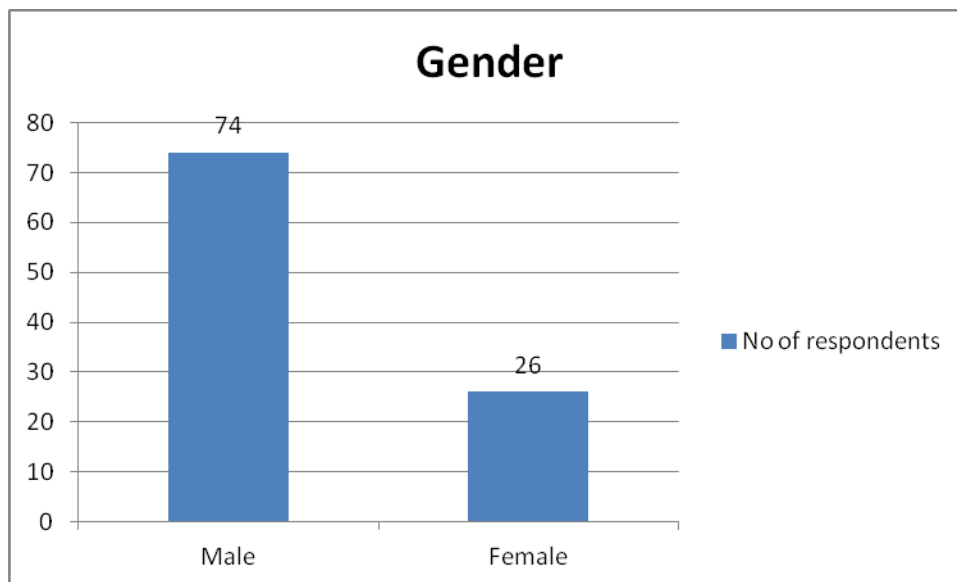
INFERENCE

From the above table it can be inferred that 34% of the respondents are in the age group of 26 to 30 years and only 27% of the employees are of the age group of 31 to 35 years

TABLE 5 GENDER

S. No	PARTICULARS	RESPONDENTS	PERCENTAGE
1	Male	96	74%
2	Female	34	26%
	Total	130	100%

CHART 5



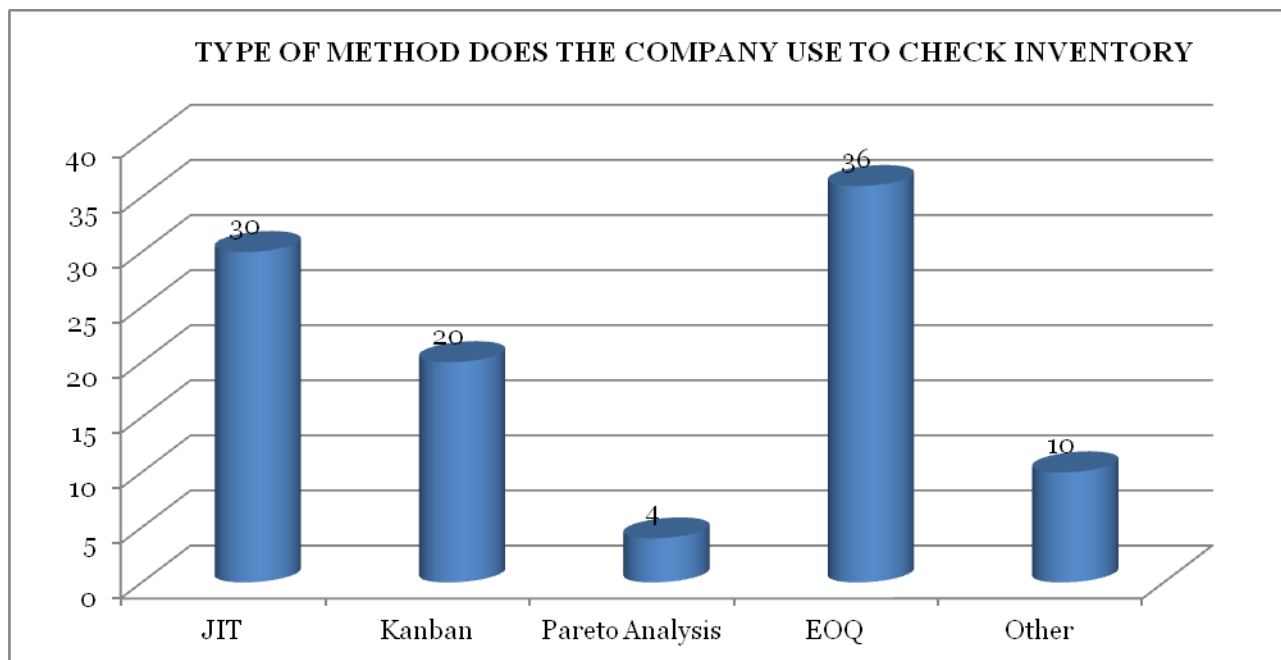
INFERENCE

74% of the respondents are male and 26% of respondents are female

TABLE 6 TYPES OF METHOD DOES THE COMPANY USE TO CHECK INVENTORY

S. No	PARTICULARS	RESPONDENTS	PERCENTAGE
1	JIT	39	30
2	Kanban	26	20
3	Pareto Analysis	5	4
4	EOQ	47	36
5	Other	13	10
	Total	130	100

CHART 6

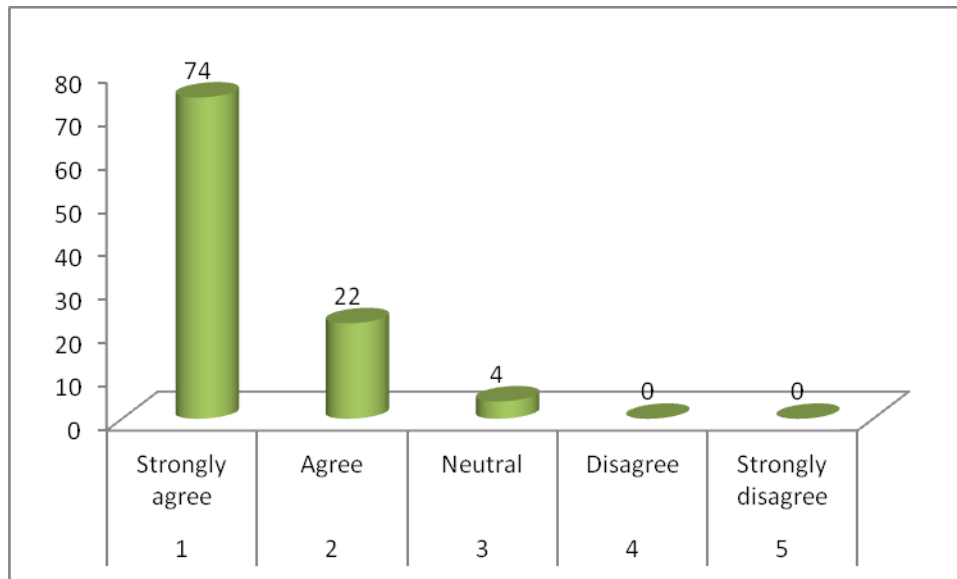


INFERENCE:

From the above table we find, 36% of the respondents are using EOQ methods, 30% of the respondents are using JIT methods.

TABLE 7**INVENTORY LOCATIONS ARE CUSTOMIZABLE**

S.NO	PARTICULARS	NO. OF RESPONDENTS	PERCENTAGE
1.	Strongly agree	96	74
2.	Agree	29	22
3.	Neutral	5	4
4.	Disagree	0	0
5.	Strongly disagree	0	0
	Total	130	100

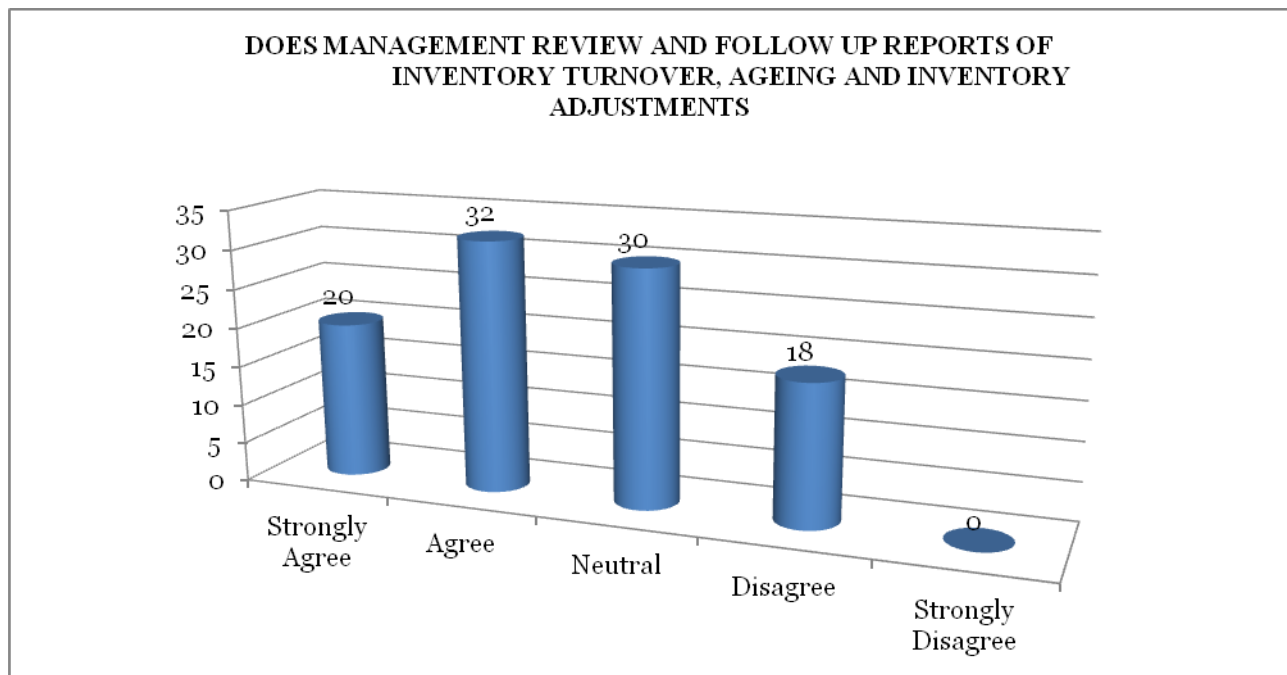
CHART 7**INFERENCE:**

From the above table, 74% of the respondents strongly agree that inventories are customizable and 22% of the respondents agree that inventories are customizable

**TABLE 8 MANAGEMENT REVIEW AND FOLLOW UP REPORTS OF
INVENTORY TURNOVER, AGEING AND INVENTORY ADJUSTMENTS**

S. No	PARTICULARS	RESPONDENTS	PERCENTAGE
1	Strongly Agree	26	20
2	Agree	42	32
3	Neutral	39	30
4	Disagree	23	18
5	Strongly Disagree	0	0
	Total	130	100

CHART 8



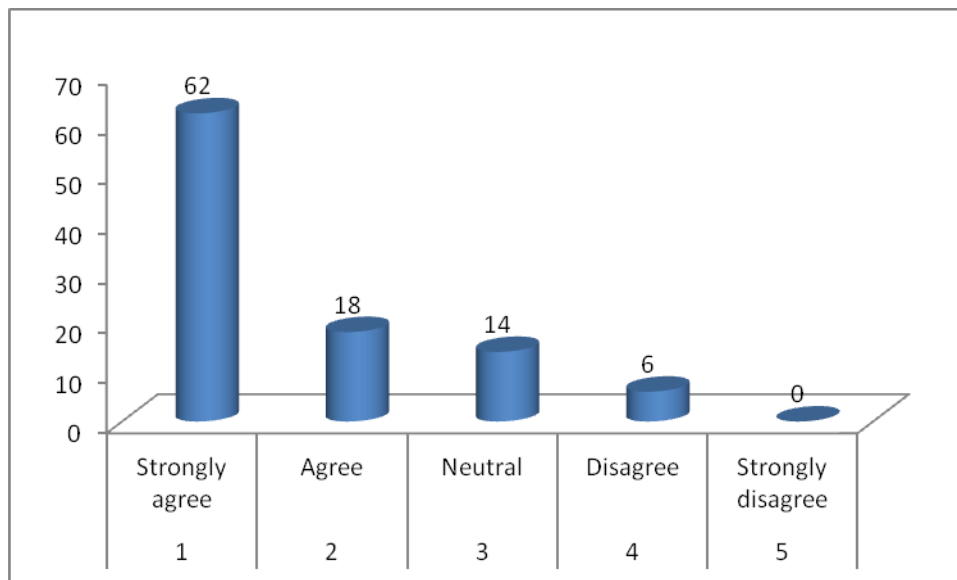
INFERENCE:

From the above table, 32% of the respondents are agreeing with management reviews and follow up reports of inventory turnover, ageing and inventory adjustments and 30% of the respondents are in neutral state with management reviews and follow up reports of inventory turnover, ageing and inventory adjustments

TABLE 9 PROPER LAYOUT PLAN OF THE INVENTORY STORAGE FACILITY IN YOUR ORGANIZATION

S. No	PARTICULARS	RESPONDENTS	PERCENTAGE
1.	Strongly agree	81	62
2.	Agree	23	18
3.	Neutral	18	14
4.	Disagree	8	6
5.	Strongly disagree	0	0
	Total	130	100

CHART 9



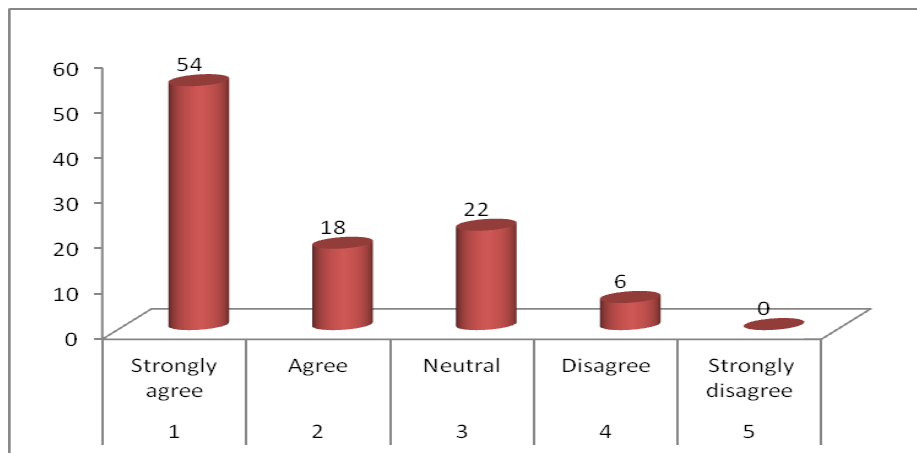
INFERENCE:

From the above table, 62% of the respondents strongly agree that proper layout having for inventory storage facilities and 18% of the respondents agree that proper layout having for inventory storage facilities

TABLE 10 DOCUMENT PROCEDURE FOR STOCK TAKING

S.NO	PARTICULARS	NO. OF RESPONDENTS	PERCENTAGE
1.	Strongly agree	70	54
2.	Agree	23	18
3.	Neutral	29	22
4.	Disagree	8	6
5.	Strongly disagree	0	0
	Total	130	100

CHART 10



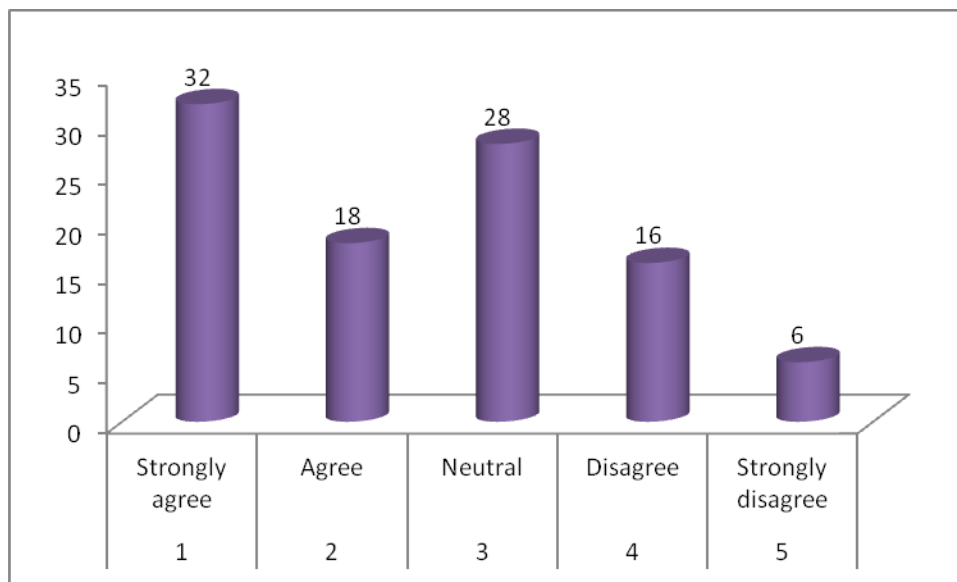
INFERENCE:

From the above table, 54% of the respondents strongly agree that document procedure for stock taking and 18% of the respondents agree that document procedure for stock taking

TABLE 11 RECEIVING, ISSUING, ACCOUNTING AND STORING RESPONSIBILITIES PROPERLY SEGREGATED

S. NO	PARTICULARS	NO. OF RESPONDENTS	PERCENTAGE
1.	Strongly agree	42	32
2.	Agree	23	18
3.	Neutral	36	28
4.	Disagree	21	16
5.	Strongly disagree	8	6
	Total	130	100

CHART 11



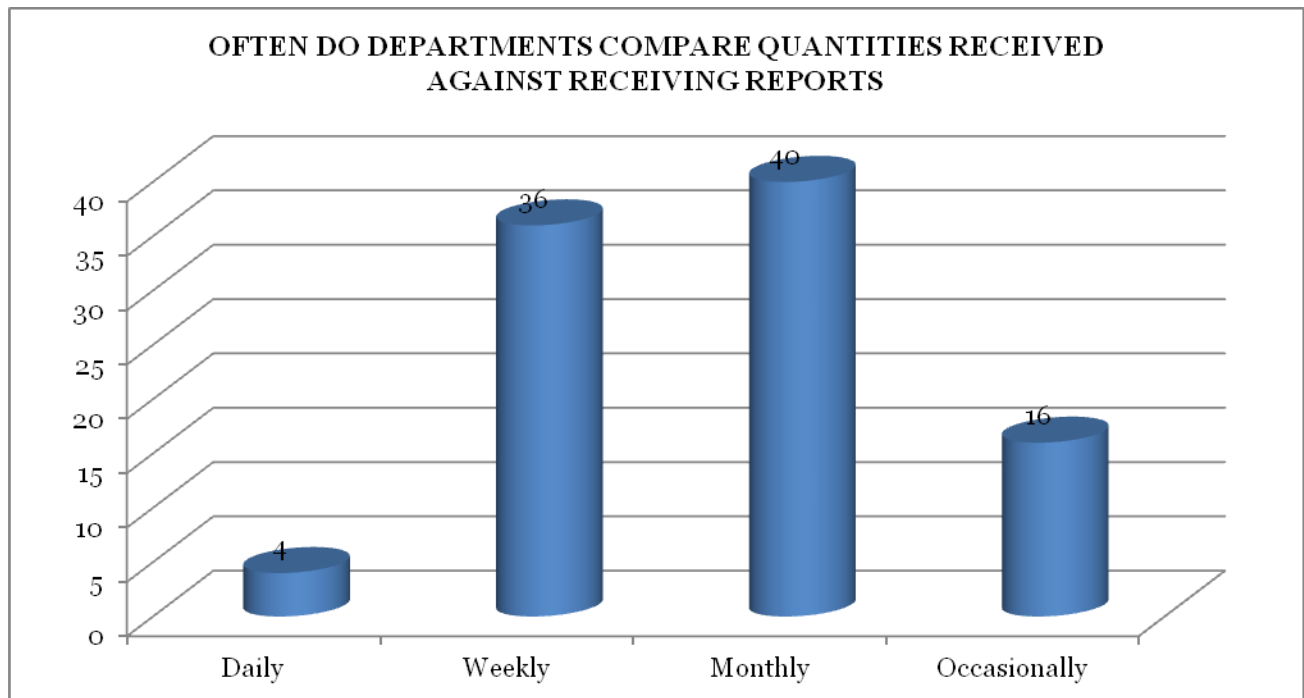
INFERENCE:

From the above table we find that, 32% of the respondents strongly agree that they receiving the information correctly, 16% of the respondents disagree that they receiving the information correctly

TABLE 12 OFTEN DO DEPARTMENTS COMPARE QUANTITIES RECEIVED AGAINST RECEIVING REPORTS

S. No	PARTICULARS	RESPONDENTS	PERCENTAGE
1	Daily	10	8
2	Weekly	47	36
3	Monthly	52	40
4	Occasionally	21	16
	Total	130	100

CHART 12



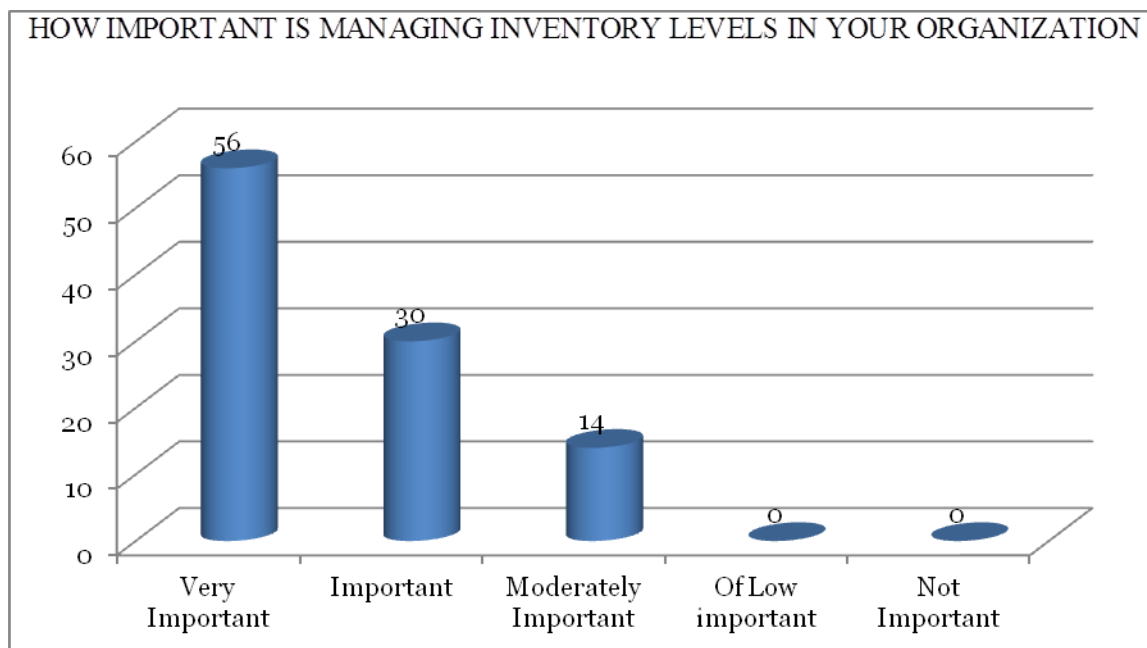
INFERENCE

From the above table, 40% of the respondents are accepting that quality check will done monthly and 36% of the respondents are accepting that it will take weekly.

TABLE 13 HOW IMPORTANT IS MANAGING INVENTORY LEVELS IN YOUR ORGANIZATION

S. No	PARTICULARS	RESPONDENTS	PERCENTAGE
1	Very Important	73	56
2	Important	39	30
3	Moderately Important	18	14
4	Of Low important	0	0
5	Not Important	0	0
	Total	130	100

CHART 13



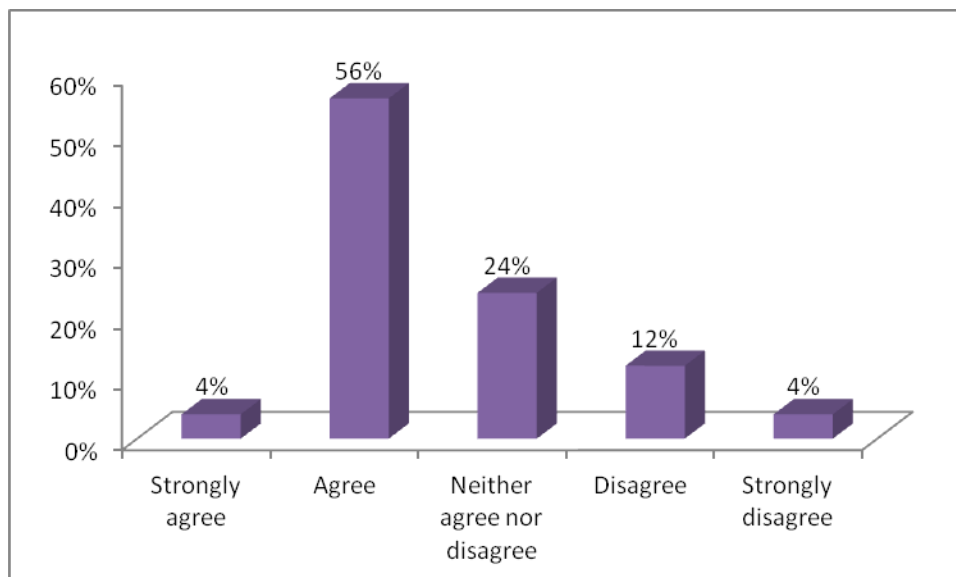
INFERENCE:

From the above table we find that, 56% of the respondents are accepting it's very important to manage inventory levels in the organization and 30% of the respondents are accepting as its important to manage inventory levels in the organization.

TABLE 14 MANAGEMENT MONITOR AND APPROVE THE WRITE-OFFS OF OBSOLETE AND INACTIVE INVENTORIES

S. No	PARTICULARS	RESPONDENTS	PERCENTAGE
1	Strongly agree	5	4%
2	Agree	73	56%
3	Neither agree nor disagree	31	24%
4	Disagree	16	12%
5	Strongly disagree	5	4%
	Total	130	100%

CHART 14



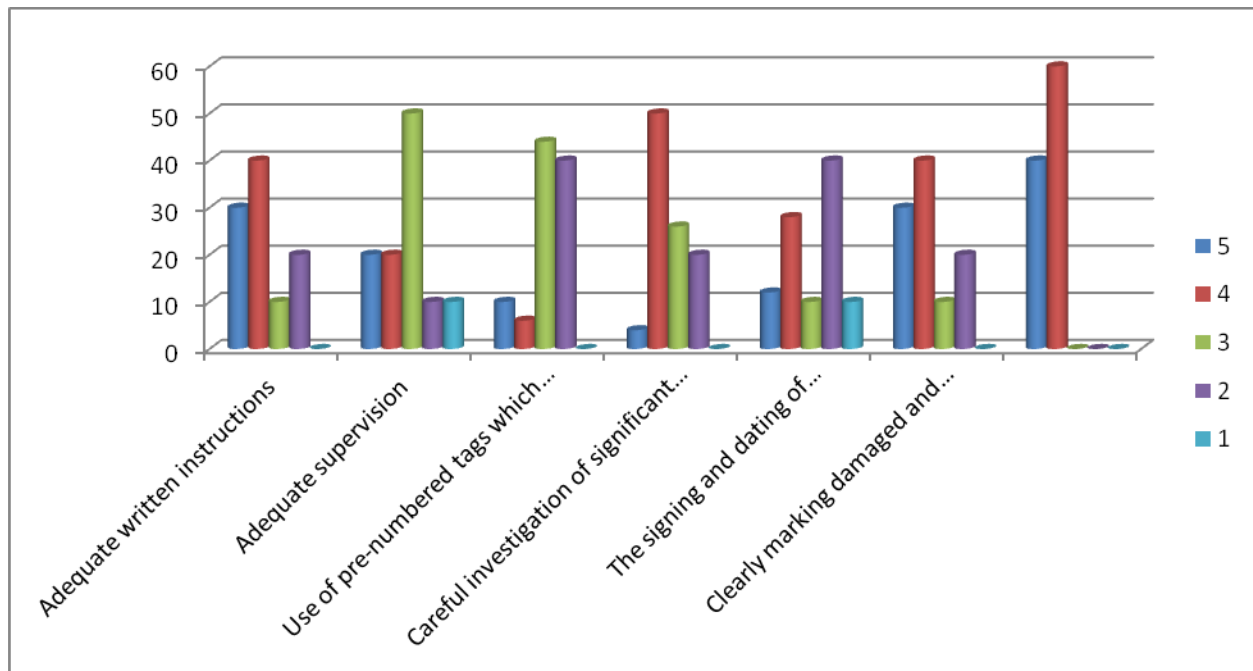
INFERENCE

From the above table we find, 56% of the respondents agree that the management doesn't monitor and approve the write offs and 24% of the respondents neither agree nor disagree that the management doesn't monitor and approve the write offs

TABLE 15 RANK THE FACTOR BY WHICH THE COMPANY SHOULD TAKE NECESSARY STEEPS TO SAFEGUARD THE GOOD FROM THEFT

SL.No	Factors	5	%	4	%	3	%	2	%	1	%	TOTAL
1	Adequate written instructions	39	30	52	40	13	10	26	20	0	0	130
2	Adequate supervision	26	20	26	20	52	40	13	10	13	10	130
3	Use of pre-numbered tags which are accounted for	13	10	8	6	57	44	52	40	0	0	130
4	Careful investigation of significant overages and shortages	5	4	65	50	34	26	26	20	0	0	130
5	The signing and dating of inventory count sheets by the person supervising the count	16	12	36	28	13	10	52	40	13	10	130
6	Clearly marking damaged and obsolete inventory	39	30	52	40	13	10	26	20	0	0	130
7	Prompt adjustment of records for inventory discrepancies after approval by a responsible official other than stores personnel	52	40	78	60	0	0	0	0	0	0	130

CHART 15

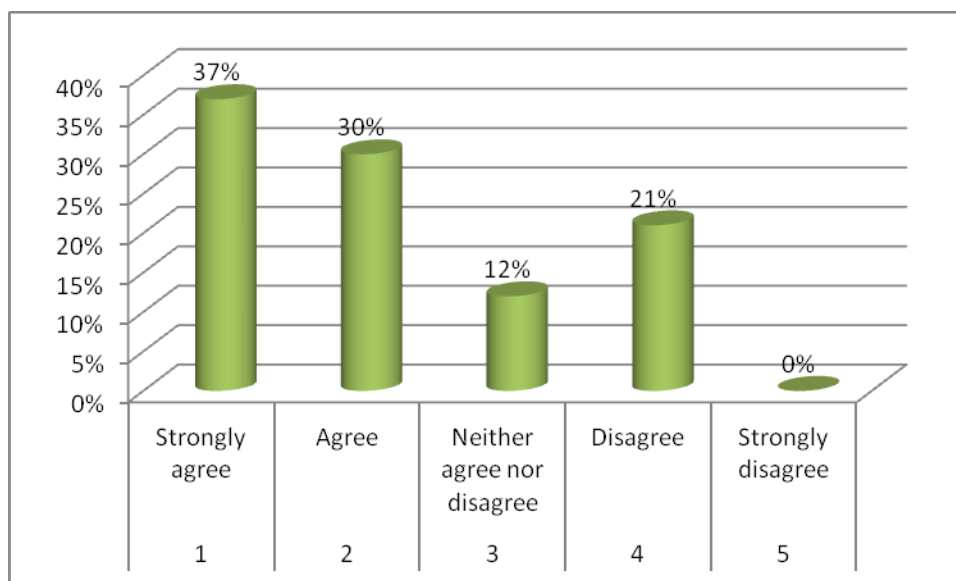


INFERENCE

From the above table we find that, 40% of the respondents give 4th the most preference for the adequate written instructions, 25% of the respondents give the 3rd preference for the adequate supervision, 40% of the respondents give the 4th preference for the clearly marking the damaged and obsolete inventory.

TABLE 16 ADEQUATE INSURANCE COVERAGE PROVIDED IN ALL THE UNITS

S. No	PARTICULARS	RESPONDENTS	PERCENTAGE
1.	Strongly agree	48	37%
2.	Agree	39	30%
3.	Neither agree nor disagree	16	12%
4.	Disagree	27	21%
5.	Strongly disagree	0	0%
	Total	130	100%

CHART 16

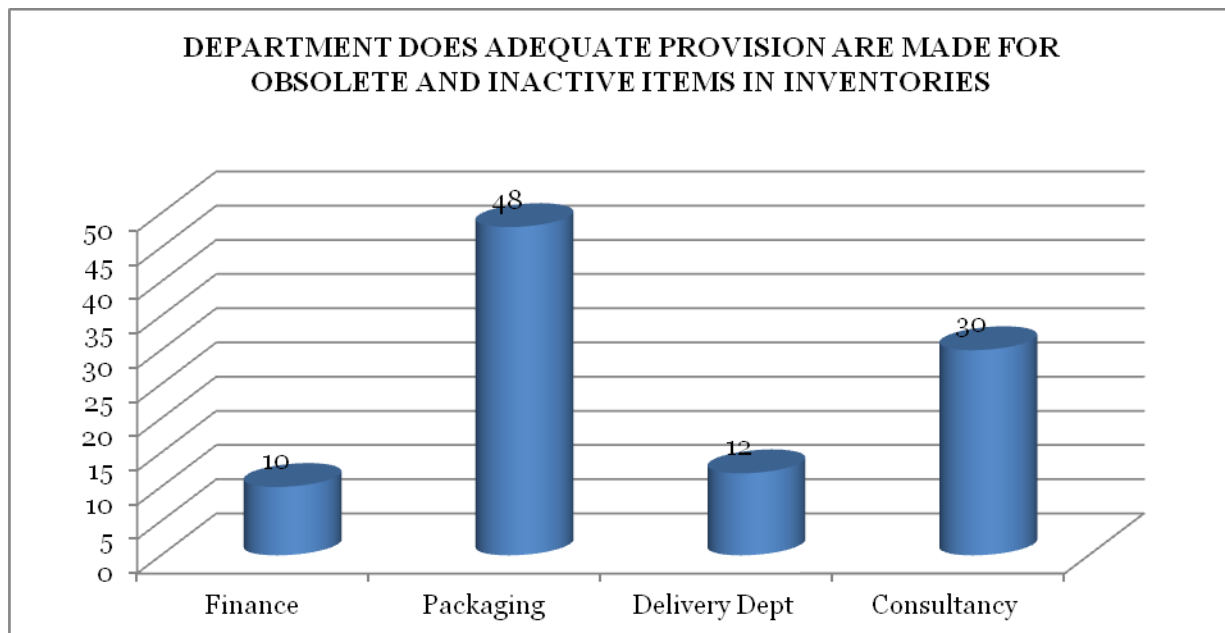
INFERENCE:

From the above table we find, 37% of the respondents strongly agree that they have adequate insurance for all the units, 30% of the respondents agree that they have adequate insurance for all the units

TABLE 17 DEPARTMENT DOES ADEQUATE PROVISION ARE MADE FOR OBSOLETE AND INACTIVE ITEMS IN INVENTORIES

S. No	PARTICULARS	RESPONDENTS	PERCENTAGE
1	Finance	13	10
2	Packaging	62	48
3	Delivery Dept	16	12
4	HR	39	30
	Total	130	100

CHART 17



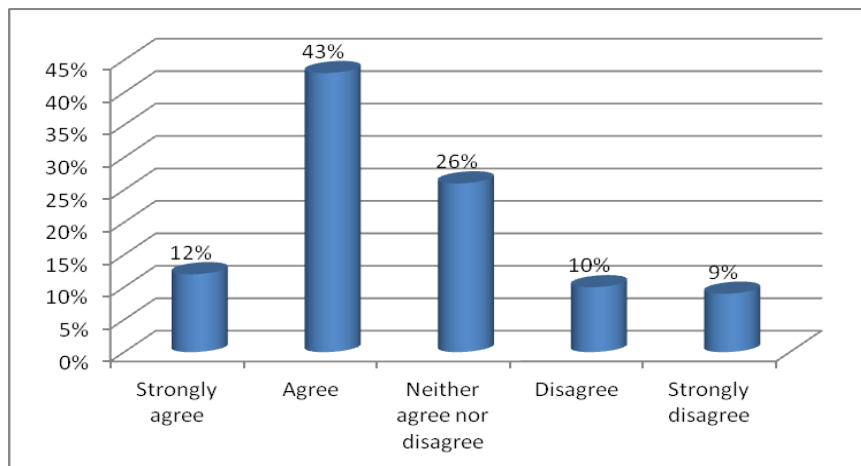
INFERENCE

From the above table we find, 48% of the respondents are saying that Packaging department gives adequate provision for obsolete and inactive items in the inventories and 30% of the respondents are saying that HR department gives adequate provision for obsolete and inactive items in the inventories

TABLE 18 **INVENTORY ITEMS MAINTAINED IN A SECURE LOCATION**

S. No	PARTICULARS	RESPONDENTS	PERCENTAGE
1.	Strongly agree	15	12%
2.	Agree	56	43%
3.	Neither agree nor disagree	34	26%
4.	Disagree	13	10%
5.	Strongly disagree	12	9%
	Total	130	100%

CHART 18



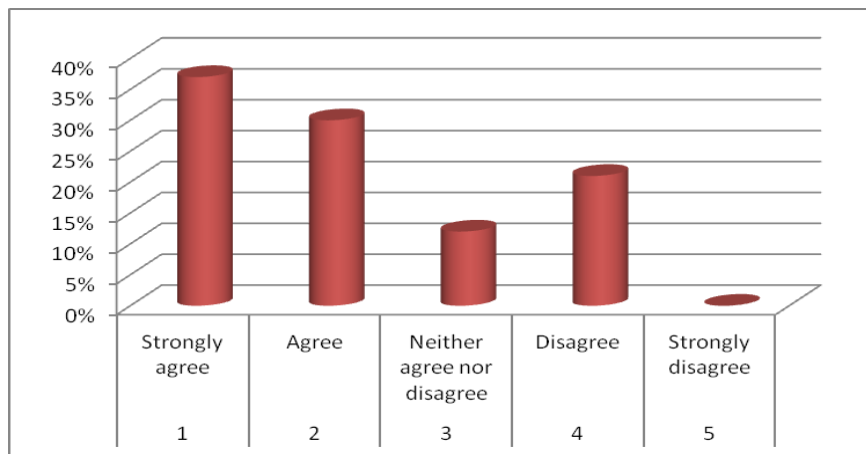
INFERENCE

From the above table we find, 43% of the respondents agree that inventory items are maintained in a secure location and 26% of the respondents neither agree nor disagree that inventory items are maintained in a secure location

TABLE 19 PHYSICAL INVENTORY CONDUCTED AT LEAST ANNUALLY

S. No	PARTICULARS	RESPONDENTS	PERCENTAGE
1.	Strongly agree	48	37%
2.	Agree	39	30%
3.	Neither agree nor disagree	16	12%
4.	Disagree	27	21%
5.	Strongly disagree	0	0%
	Total	130	100%

CHART 19



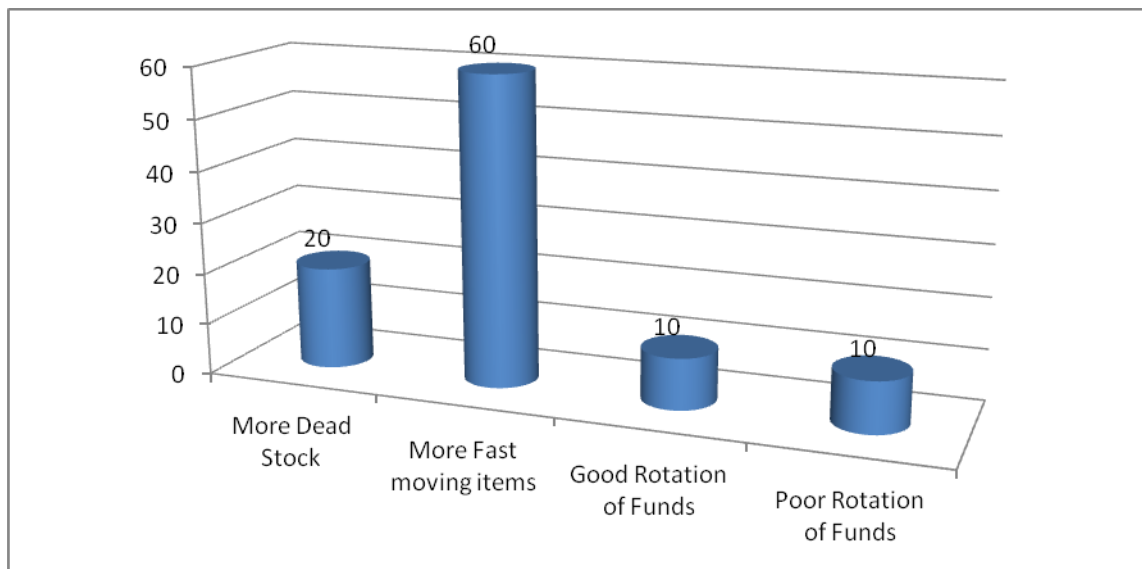
INFERENCE

From the above table, 37% of the respondents strongly agree that they have physical inventory conducted at least annually, 30% of the respondents agree that they have physical inventory conducted at least annually.

TABLE 20 RANK THE FACTOR BY WHICH THE COMPANY HAS A LOW INVENTORY TURNOVER RATIO

S. No	PARTICULARS	RESPONDENTS	PERCENTAGE
1	More Dead Stock	26	20
2	More Fast moving	78	60
3	Good Rotation of Funds	13	10
4	Poor Rotation of Funds	13	10
	Total	130	100

CHART 20



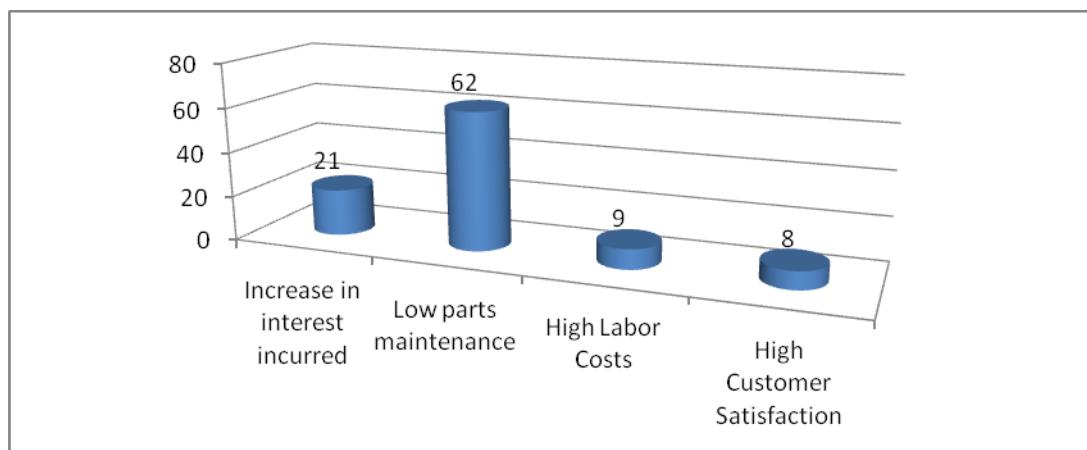
INFERENCE:

From the above table we find, 60% of the respondents gave 1st rank to More Fast moving factor by which the company has a low inventory turnover ratio, 20% of the respondents gave 2nd rank to More Dead Stock factor by which the company has a low inventory turnover ratio.

TABLE 21 RANK THE FACTOR BY WHICH FACTOR HAS EXCESS INVENTORY CAUSES THE ORGANIZATION

S. No	PARTICULARS	RESPONDENTS	PERCENTAGE
1	Increase in interest	27	21
2	Low parts	81	62
3	High Labor Costs	12	9
4	High Customer Satisfaction	10	8
	Total	130	100

CHART 21



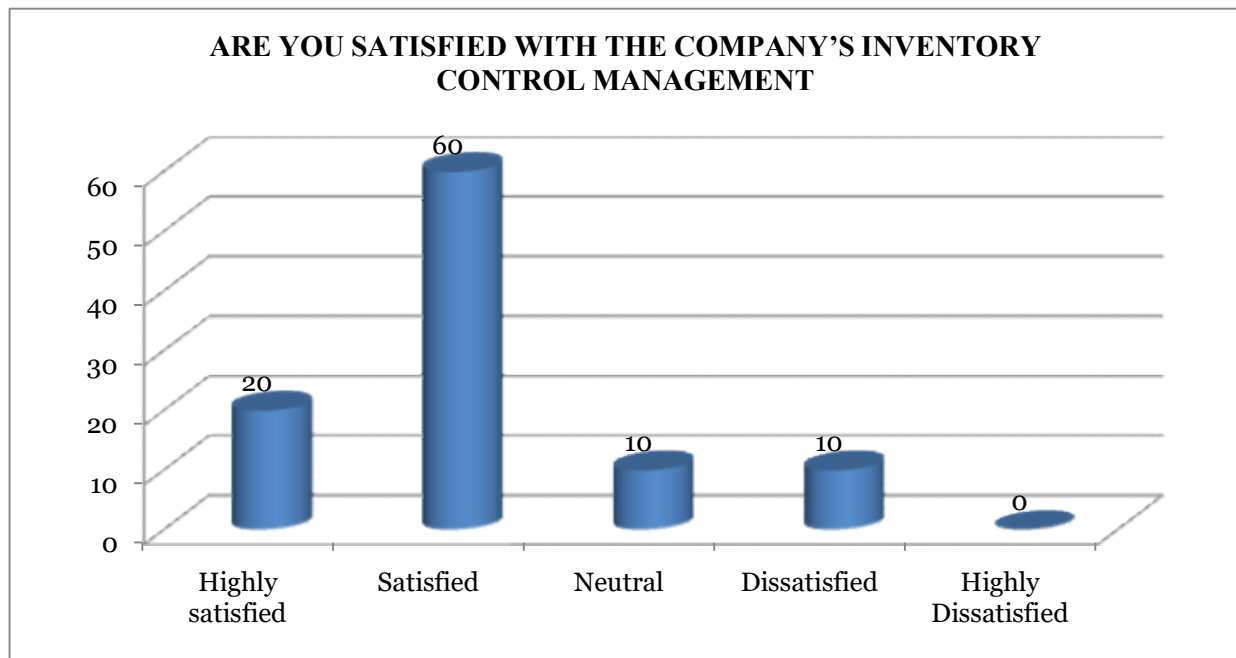
INFERENCE:

From the above table we find, 62% of the respondents gave 1st rank to Low parts factor by which factor has a excess inventory causes the organization, 20% of the respondents gave 2nd rank to Increase in interest factor by which factor has a excess inventory causes the organization.

**TABLE 22 SATISFACTION LEVEL WITH THE COMPANY'S INVENTORY
CONTROL MANAGEMENT**

S. No	PARTICULARS	RESPONDENTS	PERCENTAGE
1	Highly satisfied	26	20
2	Satisfied	78	60
3	Neutral	13	10
4	Dissatisfied	13	10
5	Highly Dissatisfied	0	0
	Total	130	100

CHART 22



INFERENCE:

From the above table we find, 60% of the respondents are satisfied with companies inventory control management, 20% of the respondents are highly satisfied with it.

STATISTICAL CALCULATIONS

5.2 CHI- SQUARE TEST I – (ψ^2)

Chi-square is the sum of the squared difference between observed (o) and the expected (e) data (or the deviation, d), divided by the expected data in all possible categories.

Null hypothesis (H_0):

There is no significant difference between the inventory items maintained in a secured manner and satisfaction level of the company's inventory management.

Alternate hypothesis (H_1):

There is a significant difference between the inventory items maintained in a secured manner and satisfaction level of the company's inventory management.

Expected frequency = Row Total * Column Total

Grand Total

Case Processing Summary

	Cases					
	Valid		Missing		Total	
	N	Percent	N	Percent	N	Percent
INVENTORY ITEMS MAINTAINED IN A SECURE LOCATION * ARE YOU SATISFIED WITH THE COMPANY'S INVENTORY CONTROL MANAGEMENT	130	100.0%	0	0.0%	130	100.0%

**INVENTORY ITEMS MAINTAINED IN A SECURE LOCATION * ARE YOU SATISFIED WITH THE COMPANY'S
INVENTORY CONTROL MANAGEMENT Crosstabulation**

		ARE YOU SATISFIED WITH THE COMPANY'S INVENTORY CONTROL MANAGEMENT				Total
		Highly satisfied	Satisfied	Neutral	Dissatisfied	
INVENTORY ITEMS MAINTAINED IN A SECURE LOCATION	Count	26	73	0	0	99
	% within INVENTORY ITEMS MAINTAINED IN A SECURE LOCATION	26.3%	73.7%	0.0%	0.0%	100.0%

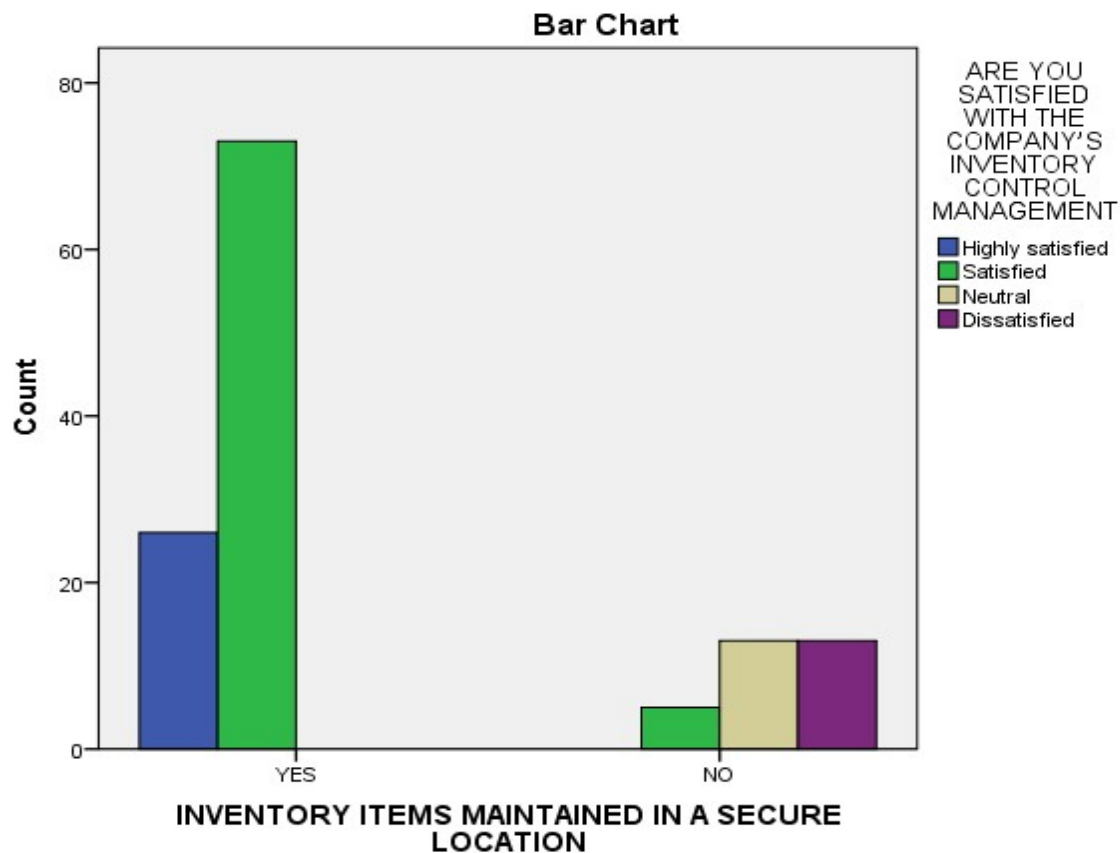
Total	NO	% within ARE YOU SATISFIED WITH THE COMPANY'S INVENTORY CONTROL MANAGEMENT	100.0%	93.6%	0.0%	0.0%	76.2%
		% of Total	20.0%	56.2%	0.0%	0.0%	76.2%
		Count	0	5	13	13	31
		% within INVENTORY ITEMS MAINTAINED IN A SECURE LOCATION	0.0%	16.1%	41.9%	41.9%	100.0%
		% within ARE YOU SATISFIED WITH THE COMPANY'S INVENTORY CONTROL MANAGEMENT	0.0%	6.4%	100.0%	100.0%	23.8%
		% of Total	0.0%	3.8%	10.0%	10.0%	23.8%
		Count	26	78	13	13	130
		% within INVENTORY ITEMS MAINTAINED IN A SECURE LOCATION	20.0%	60.0%	10.0%	10.0%	100.0%
		% within ARE YOU SATISFIED WITH THE COMPANY'S INVENTORY CONTROL MANAGEMENT	100.0%	100.0%	100.0%	100.0%	100.0%
		% of Total	20.0%	60.0%	10.0%	10.0%	100.0%

Chi-Square Tests

	Value	df	Asymp. Sig. (2-sided)
Pearson Chi-Square	104.232 ^a	3	.000
Likelihood Ratio	105.673	3	.000

Linear-by-Linear Association	78.511	1	.000
N of Valid Cases	130		

a. 2 cells (25.0%) have expected count less than 5. The minimum expected count is 3.10.



Degree of Freedom= (r-1) *(c-1)

$$= 1*3= 3$$

Calculated value = 104.232

Tabulated value = 7.815

$$Z = Z_{cal} > Z_{tab} \quad Z=104.232 > 7.815$$

Hence, the Alternate hypothesis [H1] is accepted

INFERENCE:

Since the calculated value is greater than the tabulated value, we reject the null hypothesis and hence there is a significant difference between the inventory items maintained in a secured manner and satisfaction level of the company's inventory management.

5.3 ANALYSIS USING KARL PEARSON'S CORRELATION

Correlation analysis is the statistical tool used to measure the degree to which two variables are linearly related to each other. Correlation measures the degree of association between two variables.

Null hypothesis (H0):

There is positive relationship between the Adequate written instructions and Adequate supervision.

Alternate hypothesis (H1):

There is negative relationship between the Adequate written instructions and Adequate supervision.

Correlations			
		Adequate written instructions	Adequate supervision
Adequate written instructions	Pearson Correlation	1	.907**
	Sig. (2-tailed)		.000
	N	130	130
Adequate supervision	Pearson Correlation	.907**	1
	Sig. (2-tailed)	.000	
	N	130	130

** . Correlation is significant at the 0.01 level (2-tailed).

$$r = \frac{N\sum XY - \sum X \sum Y}{\sqrt{N\sum X^2 - (\sum X)^2} \sqrt{N\sum Y^2 - (\sum Y)^2}}$$

$$r = .907$$

INFERENCE:

Since r is positive, there is Positive relationship between the Adequate written instructions and Adequate supervision.

5.4 T-Test

Null hypothesis (Ho):

There is a significance difference between rank the factor by which factor has a excess inventory causes the organization and rank the factor by which the company has a low inventory turnover ratio.

Alternate hypothesis (H1):

There is no significance difference between rank the factor by which factor has a excess inventory causes the organization and rank the factor by which the company has a low inventory turnover ratio.

Group Statistics					
	RANK THE FACTOR BY WHICH FACTOR HAS A EXCESS INVENTORY CAUSES THE ORGANIZATION	N	Mean	Std. Deviation	Std. Error Mean
RANK THE FACTOR BY WHICH THE COMPANY HAS A LOW INVENTORY TURNOVER RATIO	Increase in interest	27	1.04	.192	.037
	Low parts	81	2.05	.218	.024

Independent Samples Test										
		Levene's Test for Equality of Variances		t-test for Equality of Means						
		F	Sig.	t	df	Sig. (2-tailed)	Mean Difference	Std. Error Difference	95% Confidence Interval of the Difference	
									Lower	Upper
RANK THE FACTOR BY WHICH THE COMPANY HAS A LOW INVENTORY TURNOVER RATIO	Equal variances assumed	.279	.598	-21.485	106	.000	-1.012	.047	-1.106	-.919
	Equal variances not assumed			-22.875	50.027	.000	-1.012	.044	-1.101	-.923

Inference:

In Levene's Test for Equality of Variances significance value is 0.598 which is greater than or equal to 0.05. it means that the variability in the two conditions is about the same

Sig(2-tailed) value

Table value=.000

$0.000 < 0.05$ so there is statistically significant difference between two conditions

5.5 WEIGHTED AVERAGE METHOD

1. RANK THE FACTOR BY WHICH FACTOR HAS A EXCESS INVENTORY CAUSES THE ORGANIZATION

Particulars	No of Respondent's	Weightage Assigned	
Increase in interest incurred	27	2	54
Low parts maintenance	81	1	81
High Labor Costs	12	3	36
High Customer Satisfaction	10	4	40
Total	130		211

$$\text{Weighted Moving Average} = \sum Wx1 / \sum X1$$

$$= 211/130$$

$$= 1.6$$

Inference :

The maximum number of respondents mentioned 1st rank to Increase in interest factor by which factor has a excess inventory causes the organization.

CHAPTER 6: FINDINGS, SUGGESTIONS & CONCLUSION

6.1 FINDINGS

- 44% of the respondents are degree holder
- 30% of the respondents are having 1.1-3 years of experience
- 24% of the respondents are in the Packaging department
- 34% of the respondents are in the age group of 26 to 30 years
- 74% of the respondents are male and 26% of respondents are female
- 36% of the respondents are using EOQ methods
- 74% of the respondents strongly agree that inventories are customizable
- 32% of the respondents are agreeing with management reviews and follow up reports of inventory turnover, ageing and inventory adjustments
- 62% of the respondents strongly agree that proper layout having for inventory storage facilities
- 54% of the respondents strongly agree that document procedure for stock taking
- 32% of the respondents strongly agree that they receiving the information correctly
- 40% of the respondents are accepting that quality check will done monthly
- 56% of the respondents are accepting it's very important to manage inventory levels in the organization
- 56% of the respondents agree that the management doesn't monitor and approve the write offs
- 40% of the respondents give 4th the most preference for the adequate written instructions, 25% of the respondents give the 3rd preference for the adequate supervision, 40% of the respondents give the 4th preference for the clearly marking the damaged and obsolete inventory.
- 37% of the respondents strongly agree that they have adequate insurance for all the units

- 48% of the respondents are saying that Packaging department gives adequate provision for obsolete and inactive items in the inventories
- 43% of the respondents agree that inventory items are maintained in a secure location
- 37% of the respondents strongly agree that they have physical inventory conducted at least annually
- , 60% of the respondents gave 1st rank to More Fast moving factor by which the company has a low inventory turnover ratio
- 62% of the respondents gave 1st rank to Low parts factor by which factor has a excess inventory causes the organization, 20% of the respondents gave 2nd rank to Increase in interest factor by which factor has a excess inventory causes the organization
- 60% of the respondents are satisfied with companies inventory control management

6.2 SUGGESTIONS

- As majority of the respondents are not using XYZ analysis, company can guide them about the effectiveness of XYZ analysis.
- The management can take necessary measures to monitor over the write-offs issues.
- Management can promote the usage of different tools and methods have to be implemented to get a better output.
- Quality check can be done on a regular basis. The interval between the periodical quality check has to be reduced to improve the overall quality.

6.3 CONCLUSION

Stock administration is a science fundamentally about indicating the shape and level of supplied products. It is expected at various areas inside an office or inside numerous areas of an inventory organization to go before the ordinary and arranged course of creation and supply of materials. With this review, the scientist has had the option to figure out the productivity of the stock administration at Alloysys Extrusion Pvt Ltd . It tends to be gathered from that concentrate on that stock administration at Alloysys Extrusion Pvt Ltd is extremely palatable. Organization can proceed with the great work and carry out the ideas got from this review to upgrade their stock administration.

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ANNEXURE 1

QUESTIONNAIRE:

A STUDY ON INVENTORY MANAGEMENT WITH REFERENCE TO ALLOYSYS EXTRUSION PVT LTD

a. Qualification:

- a. +2
- b. Degree Holder
- c. Diploma
- d. PG

b. Experience:

- A. 0-1 years
- B. 1.1-3 years
- C. 3.1-5 years
- D. 5.1-7 years
- E. Above 7 years

c. Department:

- a. Finance
- b. Packaging
- c. Delivery Dept
- d. HR
- e. Sales
- f. Purchase

d. Age

- 1) 21 to 25 years 2) 26 to 30 years 3) 31 to 35 years 4) Above 35 years

e. Gender

- a. Male
- b. Female

1. What type of method does the company use to check inventory?
 - a) JIT
 - b) Kanban
 - c) Pareto Analysis
 - d) EOQ
 - e) Other

2. Inventory locations are customizable?
 - a. Strongly Agree
 - b. Agree
 - c. Neutral
 - d. Disagree
 - e. Strongly Disagree

3. Management review and follow up reports of inventory turnover, ageing and inventory adjustments?
 - a. Strongly Agree
 - b. Agree
 - c. Neutral
 - d. Disagree
 - e. Strongly disagree

4. There is a proper layout plan of the inventory storage facility in your organization?
 - a. Strongly Agree
 - b. Agree
 - c. Neutral
 - d. Disagree
 - e. Strongly disagree

5. There is a document procedure for stock taking?
 - a. Strongly Agree
 - b. Agree
 - c. Neutral
 - d. Disagree
 - e. Strongly disagree

6. Receiving, issuing, accounting and storing responsibilities are properly segregated?
 - a. Strongly Agree
 - b. Agree
 - c. Neutral
 - d. Disagree
 - e. Strongly disagree
7. How often do departments compare quantities received against receiving reports, etc?
 - a. Daily
 - b. Weekly
 - c. Monthly
 - d. Occasionally
8. How important is managing inventory levels in your organization?
 - a. Very important
 - b. Important
 - c. Moderately important
 - d. Of Low important
 - e. Not important
9. Management monitor and approve the write-offs of obsolete and inactive inventories?
 - a. Strongly Agree
 - b. Agree
 - c. Neutral
 - d. Disagree
 - e. Strongly disagree
10. Rank the factor by which the company should take necessary steps to safeguard the good from theft?

SL.No	Factors	5	4	3	2	1
1	Adequate written instructions					
2	Adequate supervision					
3	Use of pre-numbered tags which are accounted for					
4	Careful investigation of significant overages and shortages					
5	The signing and dating of inventory count sheets by the person supervising the count					

6	Clearly marking damaged and obsolete inventory					
7	Prompt adjustment of records for inventory discrepancies after approval by a responsible official other than stores personnel					

11. Adequate insurance coverage is provided in all the units?

- a. Strongly Agree
- b. Agree
- c. Neutral
- d. Disagree
- e. Strongly disagree

12. Mainly in which department does adequate provision are made for obsolete and inactive items in inventories?

- a. Finance
- b. Packaging
- c. Delivery Dept
- d. Consultancy

13. Inventory items are maintained in a secure location?

- a. Strongly Agree
- b. Agree
- c. Neutral
- d. Disagree
- e. Strongly disagree

14. Physical inventory check is conducted at least annually?

- a. Strongly Agree
- b. Agree
- c. Neutral
- d. Disagree
- e. Strongly disagree

15. Rank the factor by which the company has a Low inventory Turnover Ratio?
- a) More Dead Stock
 - b) More Fast moving items
 - c) Good Rotation of Funds
 - d) Poor Rotation of Funds
16. Rank the factor by which factor has a excess Inventory Causes the organization?
- a) Increase in interest incurred
 - b) Low parts maintenance
 - c) High Labor Costs
 - d) High Customer Satisfaction
17. Are you satisfied with the Company's inventory control management?
- a. Highly Satisfied
 - b. Satisfied
 - c. Neutral
 - d. Dissatisfied
 - e. Highly Dissatisfied
18. Suggestions to improve the current inventory management
