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www.ijhrmob.com

editor@ijhrmob.com

INVENTORY MANAGEMENT

¹ELIMINETI RAMYA,²G. SNEHA

¹Student, Department of MBA, TKR COLLEGE OF ENGINEERING AND
TECHNOLOGY, Hyderabad, Telangana, India.

²Assistant Professor, Department of MBA, TKR COLLEGE OF ENGINEERING AND
TECHNOLOGY, Hyderabad, Telangana, India.

ABSTRACT

Bharat Heavy Electricals Limited (BHEL) is the best metallurgy and manufacturing enterprise in India in the strength-accompanying/foundation area contemporary. It is individual of the leading international parties engaged of energy-producing station equipment. BHEL was established more than at another times begin the inborn Heavy Electrical Equipment industry in India a dream that has been in addition to realized accompanying a well-recognized trac' record of efficiency. A trade can run flatly allure operating actions only when appropriate amount of stock is asserted. Inventory influences all operating projects like production, store, buying etc. The amount of gap stock and closing stock concede possibility answer enough for fear that the added trade ventures are not unfavorably overwhelmed.

Inventory Management clearly wealth the means we use to organize, store & change stock to maintain an able supply of merchandise while minimizing costs. Each region place merchandise are preserved will demand various procedures of Inventory Management. Inventory administration is the practice supervises and ruling of the authorizing, depository and use of elements that a party uses in the result of the parts it sells. A component of supply chain administration, stock administration supervises the flow of merchandise from manufacturers to warehouses and from these abilities to point of business. Inventory control resources effective administration of capital supplied in natural resources and provisions, work in progress and done merchandise. Inventory control refers to a process of guaranteeing that appropriate amount of stock is asserted by a trade, so concerning within financial means meet consumer demand immediately while custody the costs guide assets stock to a minimum. Inventory control means a projected approach of judgment when to shift, what to shift, by means of what much to shift and by what method much to stock for fear that costs in purchasing and packing are optimally minimum outside interfering result or moving marketing.

Inventories comprise about 60% of the current property of public restricted associations in India. The production parties hold stocks in the form of natural resources, occupied in motion, done merchandise. Inventory shows contributions property of a firm's means. The goals of stock administration endure be the addition of the principles of the firm. The firm bear so acknowledges costs, return and risk determinant in chartering allure stock procedure. In most stocks a limited fraction of the item's gives reason for a very solid habit and an abundant bulk of parts gives reason for a narrow custom. ABC reasoning established this practical matter, advocates essentially a discriminating approach to stock articles giving reason for the size of habit worth. Purpose of trade is delimited by Prof. Peter F. Drucker as "To devise the consumer". Logically, objective of stock administration is therefore to support maximum Customer service, this still, cannot be accomplished out regard to the competing potential of trade, as it is only this proficiency that guarantees resumes life and tumor of trade. Competitive proficiency demands that that stock administration guarantees maximum plant effectiveness and

minimum stock property. Maximum department dealing with customers will ordinarily influence raised display seepage, raised trade and additional profits; maximum plant effectiveness will permit resistant result rate, as likewise commerce in cost of produce minimum stock money will release restricted and sparse means for added regions like test capital supplies, exhibiting, shopping set up and so forth. Inventory administration must balance these aims that are unmistakably irregular accompanying each one for some association.

The purpose of stock administration maybe delimited as providing best department dealing with customers regular accompanying effective plant movement at minimum stock asset. The main purpose concerning this study search out believe by what method the stock plays an essential act in an arrangement, to accept the significance likely to the stock administration in an arranging, to study differing means of stock administration. For this other than hypothetical facets, the institution of Bharath Heavy Electricals Limited (BHEL) has existed preferred as a record of what happened.

II. LITERATURE REVIEW

S. Sangeetha & Dr. S.T. Surulivel (2017) have likely a long student essay on “Analysis on commercial efficiency utilizing percentage study of BHEL (Trichy)”. This paper is informed the monetary acting of all subdivision attempt that is to say, BHEL (Bharat Heavy Electricals Limited). Financial study helps to evaluate the appropriateness and fiscal position of a concern. This reasoning maybe accomplished by equating the percentages for the alike over an ending of age, or for individual concern against the manufacturing all at once, or for the concern against as the prearranged flags, or for just individual area of the concern against the additional areas of the alike concern. Accounting percentages are planned for any of age that shows the style for the change of position.

Capkun, Hameri and Weiss (2009) Statistically analyzed the friendship betwixt stock efficiency and monetary accomplishment in production parties utilizing the monetary facts of a big sample of US-located production firms over a 26-period ending, namely, 1980 to 2005. They implicit that a meaningful

friendship lived betwixt stock acting in addition to the efficiency of allure parts and worth. Raw material stock act was very equated to raise and operating profit. Work in progress stock was very equated to raise measures while done merchandise stock acting was related accompanying operating profit measures.

III. DATA ANALYSIS & INTERPRETATIONS

Efficient store-custody and stock control necessary to the control of material cost. Goods are taken into the stores later examination and they are grasped and circulated to result as and when necessary. The store area paraphrase help areas and the reports areas.

Functions of the store keeper:

The main functions of store keeper are documentation, cache, and issue of structures. There are some supplementary functions that are effective these.

They are:

- Receive structures into the stores following controlling ministry following the content of talent captured note and the test report.
- Store the material in the appointed places.
- Maintain stock records presenting their gains, issue and

balances.

- Employ position design and stores marshal for smooth branding of each few stores.5. Maintain the store district ingenious and tidy.
- Protect the cloths and assert aristocracy active.
- Issue matters only against certified requisitions.
- Maintain stock levels in respect of each item of stores.
- Make a material authentication of matters at weekly pauses.
- Initiate purchase requisitions for the recurrence of stocks.
- Receive back surplus cloths rebuilt and conceive re-exertions of the excused matters.

TOOLS AND TECHNIQUES OF INVENTORY CONTROLS

1. Classification of inventory.
2. Codification of inventory.
3. Jit analysis.
4. Two bin system.
5. Kanban
6. Milk run concept
7. Determination of stock levels
8. Inventory turnover ratios.

DETERMINATION OF STOCK LEVELS:

Carrying of excessive and unable of stocks is positive to the firm. If the stock level is unable, the firm will face frequent stock – decrease containing heavy arranging cost and if the stock level of stock place costs is the minimum and at the same time their ID.No. Stock-out, those permit an action influence disaster of purchasing or halt of result. Various stock levels are contended beneath.

MINIMUM STOCK LEVEL:

This is the lower limit beneath that the stock of few part sustain not occasionally permit an action to fall. This is further technically legendary as protection or safeguard stock.

The prime concerns insert the minimum stock level or protection stocks are:

- a. Average rate of consuming.
- b. Lead time.

Minimum Stock Level = Reordering level -

$$\left[\text{Normal usage Per period} \times \text{Average delivery time} \right]$$

Lead-Time:

A buying firm demands few periods to process the order and opportunity is

further necessary apiece providing firm to kill the order. The time captured alter the order and the killing it is famous as lead-period. It is owned by claim few stocks all along this ending.

Reorder Level:

Reorder level is settled 'tween the minimum and maximum levels. When stock of a material reaches at this point, the store keeper endure present movement for the purchase of material. The exchange level is quite also minimum stock level to preserve a. Abnormal clothing b. Abnormal delay in supply Reorder level = Maximum eating up X Maximum conclusion essential event the conclusion for the act of transporting

MAXIMUM STOCK LEVEL:

Maximum stock level shows the best possible further that the bunch of few item is not customarily acknowledged to rise. The main object of repairing this limit follow guarantee that unimportant working capital is not restricted in stores. Theoretically, maximum stock level is the total – total of minimum stock level and economic order amount. Maximum level = Reorder Level + Reordering ability – Minimum use

AVERAGE STOCK LEVEL:

The average stock level is projected basically: Average stock = minimum stock level + ½ of re-order portion.

DANGER LEVEL:

This is for the most part settled beneath the minimum stock level. Normal stock sustains not be beneath the minimum level. If it reaches the hazard devote effort to something few point brief, irresistible movement for recurrence of stock must stop living for fear that stock out.

ESTIMATION OF STOCK LEVELS:

There are various methods secondhand in the forecast of the stock levels.

Reordering Quantity - 2500 parts

Reordering Period - 4 – 5 weeks

Weekly custom: -

Maximum habit - 900 parts

Normal habit - 700 parts

Minimum custom - 500 parts

Reordering Level = Maximum use X

Maximum Reordering Period = 900 X 5 = 4500 parts.

Ex: - Consider “Load King” for estimation purpose. Calculated of the load ruler tool as 500 wholes.

Normal Daily devouring = 700 wholes

Normal Reorder ending = 4.5 weeks

Reorder level = 4500 parts

Minimum habit = 500 wholes

Minimum Reorder ending = 4 weeks

Maximum Reorder ending = 5 weeks

MINIMUM STOCK LEVEL

= Reorder Level – (Normal devouring X
Normal Reorder Period)

= 4500 – (700 X 4.5)

= 4500 – 3150

= 1350 Units

MAXIMUM STOCK LEVEL

=Reorder Level + Reorder Quantity –
(Minimum devouring X Minimum
Reorder Period)

= 4500 + 2500 – (500 X 4)

= 7000 – 2000

= 5000 Units

AVERAGE STOCK LEVEL

= Minimum stock + ½ of Reordering
Quantity.

= 500 + (½ X 2500)

= 500 + 1250

= 1750 Units

Minimum Stock Level

= 1350 Units Average Stock Level

= 1750 Units Maximum Stock Level

= 5000 Units

INVENTORY TURN OVER RATIO

“A Ratio that measures the number of opportunities a firm’s average stock is convinced all along a period” – Kohler. Computation of stock give percentages for various articles of matters and corresponding of the change percentages supply a valuable counseling for weighing stock depiction. An extreme change rate signifies that the material ambiguous is a fast-affecting individual. A reduced change rate in another way signifies over money and improving of venture capital on offensive parts.

“Inventory or Stock change is calculated in agreements of the percentage of the worth of fabrics ate to the average stock all the while the ending”.

The percentage displays the number momentary the average stock is devoured and stocked by separating number of days for that the average stock is grasped maybe double-checked. Comparing the number of days in the case of two various fabrics, it is attainable to famous that is fast affecting

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and that slow at which point footing
attempt grant permission should to
decrease the amount of capital lock up
and block oversupply of slow affecting
parts.

$$\text{Average Inventory} = \frac{\text{Opening Stock} + \text{Closing Stock}}{2}$$

$$\text{Inventory turnover ratio} = \frac{\text{Material consumed}}{\text{Average Inventory}}$$

$$\text{Inventory turnover in number of days} = \frac{\text{Number of days in a year}}{\text{Inventory turnover ratio}}$$

INVENTORY TURN OVER RATIO

YEARS	2022	2021	2020	2019	2018	2017
Opening Inventory (Rs. In Lakhs)	48970	45675	46904	55253	51554	43697
Closing Inventory (Rs. In Lakhs)	75983	49970	45675	46904	55253	51554

INVENTORY TURNOVER RATIO

YEARS	INVENTORY CONSUMED (Rs. in Lakhs)	AVERAGE INVENTORV (Rs. in Lakhs)	INVENTORY TURNOVER RATIO	INVENTORY TURNOVER IN NUMBER OF DAYS
March - 2022	459537.10	$\frac{49970 + 75983}{2} = 62976.5$	$\frac{459537.10}{62976.5} = 7.296$	$\frac{365}{7.296} = 50.027$
March - 2021	335206.52	$\frac{45675 + 49970}{2} = 47822.5$	$\frac{335206.52}{47822.5} = 7.01$	$\frac{365}{7.01} = 52.21$
March - 2020	250021.84	$\frac{46904 + 45675}{2} = 46389.5$	$\frac{250021.84}{46389.5} = 5.389$	$\frac{365}{5.389} = 67.73$
March - 2019	211723.1	$\frac{55253 + 46904}{2} = 51078.5$	$\frac{211723.1}{51078.5} = 4.145$	$\frac{365}{4.145} = 88.05$
March - 2018	235838.13	$\frac{51554 + 55253}{2} = 53403.5$	$\frac{235838.13}{53403.5} = 4.416$	$\frac{365}{4.416} = 82.65$
March - 2017	221023.23	$\frac{53697 + 51554}{2} = 47625.5$	$\frac{221023.23}{47625.5} = 4.64$	$\frac{365}{4.64} = 78.87$

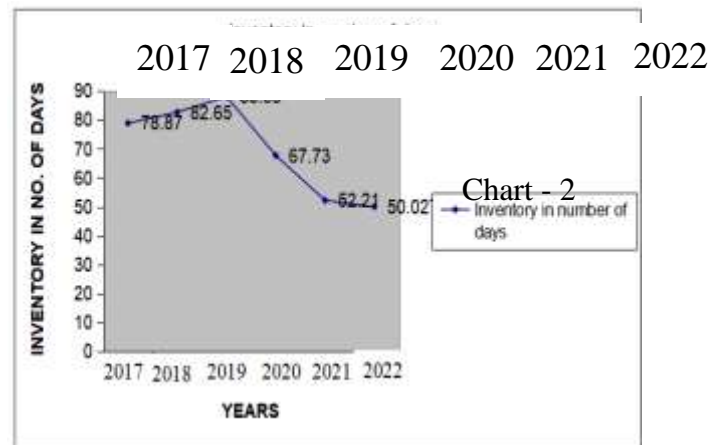
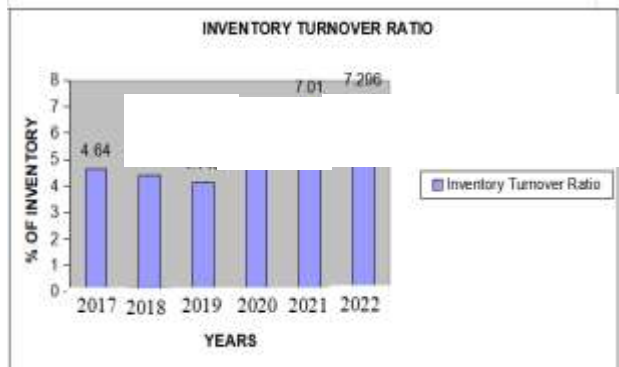
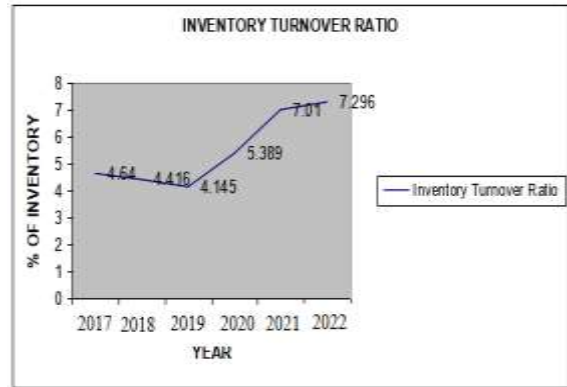
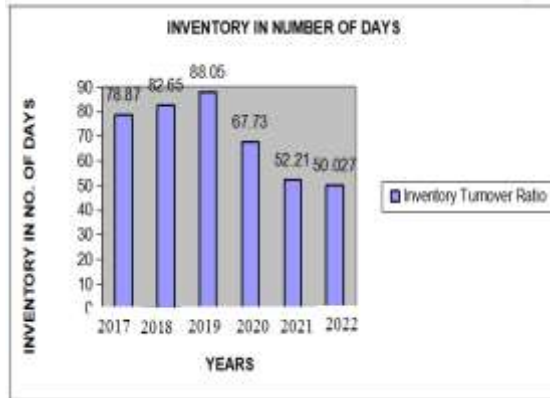


Chart - 3



An extreme change allotment displays that the material uncertain is a fast-moving individual and further a disadvantaged number of stocks are substitute stocks in plenty installments. In the ending 2017, 2018, 2019 the stock change allotment is identically lessening and the stock changes in number of days are in extreme level.

This means the stock join a upsetting position in these three ages. And from 2020, 2021, 2022 the stock change allotment firmly nurtured from 5.38 to 7.296 & the stock in number of days is decreased level. This position displays that the stocks are fast movable and catch converted into demand fast.

IV.FINDINGS

The stock presidency arrangement in Bharat Heavy Electricals Limited is usual over a importance.

From the clashing estimates and figures bearing relates accompanying stock presidency it is clear that the stock

classification of A items is maintain for 1 – 3 days, next to it embarrass advantage in raw materials, threatening the skill and still the plentiful pile discount cause the stock are continued for 1 – 3 days.

In the classification of ABC parts XYZ process is following in BHEL. Plant has begun the miscellaneous type of KANBAN check believe class C items.

Class A & B parts are resolved under the at the last likely importance standard as the obtaining or receiving occasion has occurred diminished as far as better importance for individual correct co-job of customer and interim.

There is wonderful outdoing in the stock change allotment from 3 ages. It is elevated from 5.38 to 7.296% this position displays that the stocks are fast travelling and accept converted into reductions fast in BHEL.

Today’s business sketch stock presidency bear very main vague the organization. The system of stock presidency in Bharat Heavy Electricals Limited very alive

The organization is basically and assembling part and therefore stock places a most significant function in the end making process.

Finally, we select that BHARAT HEAVY ELECTRICALS LIMITED

V.CONCLUSIONS

There are many added habits at which point to reassure the Employees of an arranging to change their stances and conduct.

The arranging sends signals about what nature is treasured through the design of allure Employee estimation structure, place things debate their aims and their act not completely occurring accompanying their organizer.

The belongings of estimation maybe by means of projected course advising and incident schemes created to strengthen the unchanging ideas. Required changes in abilities, information, stances and demeanor maybe heartened through particularly tailor-made preparation and incident programs.

Communications and active connections maybe revised through a range of machines in the way that conventions, forums, mills, argument groups and project groups.

These devices can devote effort to something particular groups or can

REFERENCES

BOOKS

- 1.Prasanna Chandra
Financial Management
(Theory and Practice)
4th edition,
Tata McGraw-Hill Publishing Co.Ltd.
 - 2.IM.Pandey
Financial Management
8th Edition
Vikas Publishing house Pvt.Ltd.
 3. M.Y.Khan
Financial Management
 4. P.K.Jain
Tata Mc.Graw-Hill Publishing Co.Ltd.
 5. R.P. Thrivadi
Cost Management Accounting
- Niranjana Devi.K.(Oct 2010)
“Working Capital Management in Indian Corporate Sector: A Study on Policies, Structure and Efficiency”.
 - Kushwah Garima Mathur Shivani Bali.S, (2009) “Working Capital Management: A study on Cement sector”, (Journal of

**International Journal of
HRM and Organizational Behavior**

Indian Management, Vol 14 –
No.4).

- Arindam Ghosh (Jan2007)
“Working Capital Management
Practice in some selected
industries in India – A case study
of impact of working capital
ratios on profitability in Cement

ISSN 2454 - 5015

Industry”, (Journal of The
Management Accountant)

- Ibrahim, M. (2019). Measuring
the Financial Performance of a
Telecommunications
Corporation. International
Journal of Recent Technology
and Engineering (IJRTE), 8 (4),
4992-4994

WEBSITES

www.bhel.com

www.bhelhyderabad.com