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RECENT ADVANCES IN LIFE SCIENCES 4th & 5th February 2015

STATE LEVEL SEMINAR

Organised by

Savitribai Phule Pune University, Pune and

Department of Zoology-

Bharativa Jain Sanghalana's

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ate Level Seminar on "Recent Advances in Life Sciences"

Study on behavioral aspects of Crow Pheasant (Centropus sinensis)

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The present study deals with the behavioural aspects of a crow pheasant (Centropus sinensis). The bird is a terrestrial bird found in Asia region which is of least concern (LC) according to the remational union for conservation of nature (IUCN) nomenclature. The study is based simply on eservation in which five behavior are described. These behaviours are maintenance, locomotion, estive, sexual and vocalization. The unique features of crow pheasant are discussed in comparison sother birds likeKoel (cuckoo) and counter part of its family.

Birds are one of the most beautiful and attractive creatures on this earth. All over world, there are eximately 9743 species of birds. These birds play a vital role in maintaining the ecosystem. They atroduction play an important role in agriculture field. The distinguishing feature is the presence of feathers their body, which makes them different from the other class of vertebrates.Pune district scompasses a large area with varied habitats. University of Pune campus (UoP) abounds in varieties resident birds around the year and migratory visitors. In UoP, 2 types of residential birds can be seen. One type of birds, which live above the ground. And other few birds, which live or spend most of their time on the ground. On the ground normally larger size of bird crow pheasant (Centropus mensis) that belongs to Cuckoo family is commonly sighted bird. The shy, elusive and solitary nature and booming call of this bird is very striking and conspicuously eye catching. In life sciences we look for patterns of behaviour and sequences of movements sufficiently similar from one occasion to the sext.Bird behaviour can be studied from many angles. Bird behavior is governed & controlled by "instincts". These instincts are related to feeding, foraging, care of the exterior of the body, overcoming rivalries. (Excerpts from Mr. S. Rangaswami's Home study course in Ornithology, 2004). However, all these activities can be improved by experience and learning. Keeping all these in background the project dealing with the study of behaviour of bird Centropus sinensis was initiated.

Description of Crow Pheasant: - The study bird crow pheasant belongs to family Cuculidae. Stephen first identified it in 1815. This bird is called by different names in different countries, namely Asia. It is commonly called as Greator coucal or Crow Pheasant. In India it is called as "Mahoka" in North India and in Maharashtra it is known as "Bharadwaj" and also known as "Kumbhaar kawala".It s found in Bangladesh, Bhutan, Cambodia, China, India, Indonesia, Malaysia, Myanmar, Nepal, wikistan, Philippines, Singapore, Sri lanka, Thailand and Vietnam. In India it is distributed all over. Remational union for conservation of nature (IUCN) Red list of threatened species has categorized Centropus sinensis under LC i.e. least concern as assessed in 2004 by Ekstrom and Butchart.

Field study was carried out in the campus of Pune University. The total area of the campus is 6, Materials and methods: 50,000 square meters. Digital camera (Canon) of 4x zoom with 7.1 mega pixel, binocular (8m) and notepad and pen. Whole day was utilized for studying the behaviour. Hourly observations were done with intervals. Notes in codes were entered in the note pad. The notes were later decoded in details.A survey of whole university campus was done for one week at the start of the study, and presence of study bird and the area was located and marked.

The study bird showed the preference for dense forest area near the study sites. The flora Results consisted of mainly Leucena leucocephala, Dalbergia melonoxylon most abundantly found in UoP compus, and Ficus benghalensis trees. The crow pheasant shared its niche with other reptilians, avian

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and mammalian fauna.Severalbehavior were reported which are comfort/maintenance, locomotion.

1) <u>Comfort/maintenance behavior</u>: -The crow pheasant show preening behaviourin which it used its bill to attain the number of the second to remove diff & its bill to straighten the feathers on its breast, neck, tail, and wings. It was observed to remove dirt & parasites by its bill. This act was performed while sitting with eyes open. Other maintenance behaviour observed isSun bathing.During this behaviour crow pheasantwas seensitting on the branch of a tree in the sun light with both the wings spread out horizontal to the branch. Extensive preening always

2) Locomotion: - Crow pheasant show walking behaviour which is a primary mode of locomotion as which it moved at leisurely pace. It shows Running behaviour which was observed to move at a speed similar to or slower than the human adult run. It generally runs to escape a perceived three And also shows flying behaviour.Crow pheasant flight was observed to be slow, clumsy and at low elevation. They were observed to browse lower branches of tree. It was observed to hop from branches to branch to the top of trees, if it flew for long distance. Then gliding downwards before to disappear

3) Ingestive behaviour: Crow pheasant seems to be opportunistic omnivores. Their diet was observed to include caterpillars, bird's eggs etc. it was seen eating Indian wheat bread (rotal Centropus sinensis was observed tosearch for food while walking, looking down at the ground or by extending its neck to and fro and looking right and left.

4) Sexual behaviour: Centropus sinensis showed Mounting behavior during which the male spreads its wings and climbs on to the back of the seated female observed on branch of a tree. It is reported an the paper published by (Lichtenberg and Hallager 2006) that, during this behaviour actual transfer of sperm takes place, which requires only a few seconds. This behaviour was observed in Centropes sinensis during rainy season.

5) Vocalizations:-Two types of vocalizations could be discerned of erow pheasant.

a) "Coop-coop" Crow pheasant produces deep resonating sound like "coop-coop", minimum three times and maximum 19 to 20 times at a stretch. Sound was produced at various tempos and heard many times. It gave out this sound in a typical posture, with head and neck bent towards the chest This call was often uttered in duet, one followed by the other. "Coop-coop" sound can be heard in many variations. Sometimes sound produced was at high pitch and sometimes at low pitch.

b) "Clock-Clock": This type of call was produced by crow pheasant in three situations, before flying after finding the food as if, communicating with its pair and inviting him/her for the food and when pair comes close to each other.

Discussion

Behaviour includes all those processes by which the animal reacts to the external world and the internal state of its body while so reacting. Birds depend to a great extent on innate behaviour. They respond automatically to specific visual and auditory stimuli from the environment and other drives from within, which are physiological like the urge to feed, to mate and reproduce. The bird behaviour in all these activities is of a stereotyped nature. Over all description of the study bird is. length-19 inches. Sexes are alike. Wing chestnut in colour, the remainder of plumage black glossed with green, steel-blue and purple. Iris crimson bill and legs are black. Eyes are deep red in colou. The bill is deep rather curved: the wings are short and rounded; tail long broad and graduated; the feathers of the head, neck and breast are harsh and coarse; the hind toes have a long straight claw. The pattern of the foot is, Zygodactyl.

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Crow pheasant

Centropus sinensis shares its niche with <u>Aves</u>- Jungle crow (Corvus macrorhynchos), common crow (Corvous splendus). Koel (Eudynamys scolopacea). Crow Pheasant also shares its niche with Reptiles- Cobra snake, garden lizard Calotes and also with Mongoose (Helogale parvula) and Dogs Canis lupus familiaris). But no interactions were observed.

For the birds to define its territory to other birds, or while selecting the mate, communication is necessary. A communication among the birds can take place by two ways; sound and sight. Many birds use song and visual displays to establish a territory and to attract a bird. The Crow Pheasant has been found communicating with its own species by sound. "Clock- Clock" kind of call was heard whenever the study bird was foraging, which may probably be passing the message that it has found the food.

A bird song is also a conspicuous sound that is used early in the breeding season to attract a mate; sometimes song also expresses their inner joy. Our study bird was observed and heard to produce two different kinds of calls. Crow pheasant is an early riser it starts calling just before dawn about 5:00 to 5:30 am. It produces a deep resonant call in various tempos. During its breeding season its "coop-coop" call could be heard for maximum about 19 to 20 times. Crow pheasant produces "coop-coop" three to four times when the bird is in joyous mood or in a relaxed mood when no threat perceived. This sound is often uttered in duet one followed by the other and both the pair produces sound "coop-coop" which is in fast tempo.

The most distinguishing character of the birds is "feathers". They use their feather for various purposes such as for flying to escape from its predator, or to locate its prey and also to attract mate. So the feather care and its maintenance is a most important activity in the life of birds. These activities are bathing, drying, oiling, preening, sunning, and dusting. Out of these crow pheasant has shown preening and sun bathing behaviour. While studying the various types of flying encountered in birds two important points are taken into consideration. (Rangaswami 2004) the ratio of wings length to its breadth and the ratio of body weight to wing surface- the surface loading ratio. Crow pheasant showed gliding kind of flight. It is the simplest one because it involves less expenditure of energy. Crow pheasant hops from branch to branch and reaches to the top of tree for flying at longer distance. Its flight is slow and clumsy and it flies at low elevation. During flight it never produces calls.

Availability of food in plenty is required in case of birds because they are warm blooded and have high metabolic rate.Crow pheasant was observed eating caterpillars, piece of Indian wheat bread (roti), bird's egg and snail Thus it can be considered omnivorous. It normally feeds on soft caterpillars. Hairy caterpillars are often rejected by most other types of birds, which find the hairs to be irritating and distasteful.

The breeding season signifies a distinct phase in bird's life. The breeding cycle of a bird involves several stages like establishment of a territory, courting and acquiring a mate, mating nest building, egg laying, incubation and care of the young.Breeding season for crow pheasant was observed from February to September. Both sexes seemed similar in size. Generally breeding takes place in rainy season Nest is built in bushes. The study bird uses green leaves, twigs to build the nest. It lays egg in clutch of 3 to 5 (Ali and Ripley 1987). Mounting behaviour was observed which lasted for about 15

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seconds. As the crow pheasant is non-parasitic species, both parents incubate the eggs and care for the young. (Ali and Riple 1987).

References

- 1. Monga, S. (2003). Birds of Mumbai. India Book House.
- 2. Goel, P., Goel, S., Mahabal, A., Nalavade, S., Sondi, A., Sondhi, S., Tambe, S. (2006).
- 3. Rangaswami S, (2004). Home study course in Ornithology, vol 1 and 2. 4thedition. Rishy

4. Lichtenberg, E. & Hallager, S. (2006). A description of commonly observed behaviours for

- the kori bustard (Ardeotis kori). Japan Ethological Society and Springer. 5. Ali, S. & Ripley, S.D. (1987). Hand of the Birds of India and Pakistan, Compact Edition
- Oxford University Press, Bombay. 6. Niko, T. (1970). Animal Behaviour, Time Inc. in the United States.
- 7. Links; http://www.juenredlist.org/.





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Effect of certain plants on sugar cataract in organ culture

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In the world about 17 million people are blind because of cataract. The eye lenses transparency is Abstract affected by high concentrations of various sugars. The diabetic patients under 60 have three to four times more prevalence of cataractogenesis than that in normal populations. The lens clarity depends on a micro-architecture of fibres, soluble proteins, a lens capsule and epithelium. Ageing is main factor of cataract formation but the important cause of cataractogenesis is diabetes. The high glucose levels in blood causes accumulation of glucose in eye lenses and may cause tissue damage and osmotic changes by aldose reductase mediated polyol pathway. Certain plant extracts may inhibit Aldose reductase production, prevent sorbitol accumulation in the lenses and may be helpful for minimizing lens opacity. AR inhibiting activity of Aegle marmelos, Dolicandron falcata and Vinca rosea were studied with their effects against sugar-induced lens opacity in vitro. The aqueous extracts of these plants showed potential inhibitory activity of AR. Incubation of goat lenses with high concentrations of glucose (100mM) led to the loss of lens transparency because of decreased soluble proteins and increased protein carbonyls. Plant extracts (100ppm) addition to the cultured medium preserved transparency and decrease in soluble protein. These results showed that these plants protect the lens against diabetes induced cataract.

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Madhuri Deshmukh Co-ordinator From Organizers desk

It gives me an immense pleasure to welcome all the participants at the state level seminar on "Recent Advances in Life Sciences". I am sure this conference would provide a platform for students and researchers to exchange information among eminent resource persons, scientists and academicians from far and wide. This would also pave way for taking effective steps to speed up scientific research.

This seminar will provide a platform to researchers to present their research work. It will also help researchers to update themselves with advance trends in Life sciences and sustainable development.

I would like to thank all the members for accepting the invitation to join the team and look forward for their help and cooperation in making this journal a success. I also thank the team which has helped us in making Recent Advances in Life Sciences preceding a possibility.

I am confident and hope that the seminar will be fruitful and will initiate good research output.

I once again extend my hearty welcome to all the participants. I also wish an empowering and enlightening experience for all associated with the seminar.

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Insect pests of Potato crop in the North West Pune District (Maharashtra)

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ABSTRACT:

Satgaon Pathar (seven villages) is a part of Ambegaon Tahashil in the Dist- Pune (Maharashtra). More than 5000 farmers' of this region are taking this crop during the Kharip season only. The potatoes are mainly cultivated for the commercial purposes; especially for potato chips. The major purchasers are IFC Foods Limited, PepsiCo Holdings Private Limited and Parle. We conducted a survey to find out the insect pests of this crop from plantation to post harvesting. We found some serious insect pests in some localities. The major pests we observed in the Kharip season were - several types of beetles, leaf hoppers, army worms, cutworms, aphids, white grubs, carwigs, and wire worms. In some farms we found the army worms, cut worms and the white grubs caused serious damages to the potato plants and underground potatoes. To protect the crop from the attack of the insect pests, the farmers are applying the insecticides continuously; in such farms we could not see any bee, the most important pollinator insects. There is need to give scientific information about the insect pest control, such as the importance of Integrated Pest Management to protect the environmental balance and protection of useful insect

Key words: Potato, Satgaon Pathar, white grub, army worm, insect pests, cut worms

Introduction:

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Potato (Solanum tuberosum L.) ranks as the world's fourth most important food erop after maize, wheat and rice. It is grown in more than 100 countries in world. The edible portion of potato is its tuber which is morphologically an underground stem. Potatoes are consumed by over one billion people world; half of them are in the developing countries alone. Europe and Asia alone accounted for 82% of total potato production in the world. In developing countries, Asia accounts for 83.8% of the 151.24 million tones of potatoes produced. The three largest producers in Asia are China (69.2 million tons). India (23.3 million tons) and Turkey (4.9 million tons). China and India ranked first and third largest potato producing countries in the world. It is one of the main commercial crops grown in India. Potato is cultivated in 23 States in India. Uttar Pradesh ranks first in the crop yield in India. with production of 435.45 lakh tons during 2011-12. Potato (Solamon tuberosum) is one of the most important food crops of the world. Potato is a crop which has always been the poor man's friend-. Potato is being cultivated in India for last more than 300 years. For vegetable purpose, it has become one of the most popular crops in the country. Originally the potato was restricted to the regions of cooler climates, but new varieties have come out that will grow in almost any part of the world. In Ambegaon (Satgaon Pathar, Manchar, Bhavadi, Pargaon Tarphe Khed, Thugaon, Kurvandi etc.), Khed and Junnar Tahashil the climatic conditions are ideal for the potato crop and in most parts of the Tabashil this crop is taken throughout the year.

ashil tins crop is taken mod seven villages- Kurvandi, Kolharwadi, Thugaon, Bhavadi, Karegaon, Satgaon Pathar (a group of seven villages- Kurvandi, Kolharwadi, Thugaon, Bhavadi, Karegaon, Satgaon Panar (a group by Solo acres) in Satgaon Pathar is covered by dealer. Around 90 per Peth and Pargaon) is the part of the bar of the second part of the part of the part of the cultivable land (roughly 8600 acres) in Satgaon Pathar is covered by the potato crop during cent of the cultivable tand trought farmers are potato growers and the varieties selected are mainly. Kharip season. More than 4000 farmers are potato growers and the varieties selected are mainly-Kharip season. More than the 2011-12 about Rs. 70 erores were invested in this crop. The varieties Atlantic and FL 1533. During 2011-12 about Rs. 70 erores were invested in this crop. The varieties Atlantic and FL 1535. During and multinationals like Pepsi Co, ITC food Ltd. and Parle are the major grown are only for potato chips and multinationals like pepsi Co, ITC food Ltd. and Parle are the major grown are only for potate emperation in the potato crop during Kharip, the farmers are the major buyers. Though there is a huge investment in the potato crop during Kharip, the farmers are not sure buyers. Though there is a longe inclusion the crops is affected by late blight (karpa) and armyworms (and about the yield for all the times because the crops is affected by late blight (karpa) and armyworms (and

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some other pests and parasites of the potato) causing serious losses to the investors. To aware the farmers about the pests and parasites of the pests and the parasites of the potato crop of their interest, we conducted survey of the pest and parasites of the crop during Kharip season. The potato crop is mainly damaged (at various stages of its growth and after harvesting) by viruses, hasteria, fungi, permatodes, coveral the various stages of its growth and after harvesting) by viruses, and

bacteria, fungi, nematodes, several types of insects, mites and mice. Common pests, parasites and diseases causing agents are listed in the table, below:

Potato crop is attacked by a number of insects pests, nematodes and diseases. Some of them are very severe in nature and can reduce the yield significantly unless proper control measures are

Some of these such as aphids, cutworms, white grubs, Epilachna beetles, defoliating caterpillars, tuber moth and mites are great enemies of the crop and cause 10-20% loss.

Materials and methods:

Area under study: For Kharip crop of potato- Satgaon Pathar (Seven villages) Survey: Since plantation till harvest of the crop. Photography: Camera- 36 X Optical zoom wide Full HD 12.1 Mega pxl.

Collection and photographs of the Sample: plant material- leaves, stems, flowers, roots and affected potatoes.

We conducted survey and communicated with the farmers in and around the Satgaon Pathar of Ambegaon Taluka. We collected information about the total area under potato crop, varieties chosen, collection of seed, methods and season of the plantation, manuring, pest control methods employed, harvesting, storage and marketing. We also discussed with the farmers, (Ashok Bajare, Mr. Tamboli, Mr. P.B. Kale and Mr. Kailas Erande,), who are investing lakhs of rupees for the crop every year. After plantation we visited the farms from various villages to record the pests, parasites on the crop, in the soil, on the underground potatoes and on the harvested potatoes.

We visited the farms from seven villages during various periods (early in the morning, at noon and late evening) of the day and randomly after a gap of a week.

Observations: Several insect pests were observed on the potato crop from the seedling stage up to harvesting. The most harmful are as below:

1. Aphids

In some seasons, aphids pose serious limitations in the successful cultivation of potatoes. These are small insects either pale yellow or dark in colour. Both nymphs and adults damage the plant by sucking the cell sap from the leaves, tender shoots and stem. The leaves of attacked plant become vellowish and curved. If the population is very high, the affected plant may die. Besides this, the aphid secretes honey dew on leaves on which black mould develops. This interferes in the photosynthesis. The winged aphids also transmit serious viral diseases in this crop.

2. Leaf hoppers

Leaf hoppers are tiny insects having slender bodies usually tapering posteriorly and rest in a position ready for jumping. When disturbed, they leap often several feet. Several species of leaf hoppers cause damage to potato crop by sucking sap from the leaves. The infested leaves turn pale, and die. Some of them are also responsible for transmitting the mycoplasma diseases. 3. Cutworms

utworms The damage is caused by the caterpillars. They cut the stems or leaves of potato plants just above The damage is caused by their growth, vigour and yield. They also feed 'on tubers by boring and ground level and thus affecting their market value. In badly infested fields as bid nibbling into them and affecting their market value. In badly infested fields, as high as about 40% nibbling into them and anecting disting a subject of the second s remain hiding in the soil and in the night they come out to damage the crop. 4. Epilachna beetle and blister beetles:

pilachna beetle and blister beetles. pilachna beetles are important leaf eating pests of potato. Sometimes they become one of the most These beetles are important in successful cultivation of potatoes in many parts of the court These beetles are important lear earlies in potatoes in many parts of the country A severe important limiting factors in successful cultivation of potatoes in many parts of the country. A severe important limiting factors in successful called. Epilachna beetles are small insects of the country A severe infestation may cause up to 15% loss in yield. Epilachna beetles are small insects of yellowish brown infestation may cause up to 15% loss in the hills as well as plains.

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A female beetle lays about 300 cigar shaped eggs in clusters of 10-50 on the under surfaces of A female beene lays about 4 days in to small yellow grubs covered with hairy spines. These grubs start feeding on the foliage. They scrap away the chlorophyll from the leaves leaving only

5. Potato tuber moth

Potato tuber moth is an important pest of potato in the country. Though the infestation generally starts in the field, it does not usually become serious in most places; but it causes heavy damage to the potatoes in stores in the plains. Sometimes the entire stores of potato have been reported to be lost due

The tuber moth is a small insect of dull grey colour having dark brown or black marking on the wings. The pest is active throughout the year in the plains. The caterpillar of this pest feed inside the tuber pulp. The tunnels made by the caterpillars are filled by the excreta. Such tubers generally become unfit for human consumption and seed purposes. 6. White grub

The white grubs are the larvae of cockchafer beetles. They are usually present in all types of soils throughout the year in hilly areas to a depth of. 10 cm to 1 cm. The grubs are fleshy white or light grey in colour with curved bodies. They damage the plant by feeding on the underground portion viz. root, stems and tubers. The grub in early stage feed on the roots with the result the plants-dry up. Later on when tubers are developed, the grubs cut holes in the tubers. The market value of such tubers is very much reduced.

RESULTS AND DISCUSSIONS:

As the farmers are growing the potato crop commercially they take care of their crop at various stages of growing period. Being Kharip season there is no need to irrigate the crop. The crop is manured properly and pesticides applied periodically. In some farms the whole crop was severely damaged by the attack by the armyworms, cutworms keeping only veins of the leaves behind, naturally the yield were very poor with small sized and abnormal potatoes. Wherever the potatoes were exposed due to rain, were found bored by the army worms. During early period of growth insects such as aphids, leaf hoppers, grasshoppers, larvae of several insects, a variety of beetles were recorded. The aphids, leaf hoppers generally seen in the morning and late in the evening. The fully grown larvae were seen on the ground, taking shelter of the litter. A variety of weevils, beetles, wireworms were seen in the early period of the season (July). In some farms the stems were seen collapsed due to attack of stem borers, and other insects. In certain parts where the humidity was more mould was seen on the crop and on the ground. Some farms exhibited the crop with curly, withered, yellow leaves. In some farms the inflorescences was also severely affected by the aphids, leaf hoppers and beetles.

We recorded following pests, parasites of the potato in the area under study. These records are not uniform throughout, but variable. The variations might be due to the farms, farmers, i.e. how they are maintaining their crop?

Insects	Aphids,	beetles,	crickets,	dragon	flies,	carwigs,	grasshoppers,	Blister	beetles,	Leaf
	hoppers	, army w	orms, cut	worms,	white	grubs, wo	eevils, moths,			
1	1 million			1	1 1	Destant				the manual statements

Pests of potato crop

Most of the farms we inspected were quite healthy and with satisfactory yield. This was due to ideal climatic conditions, adequate fertilizers, and use of pesticides to control the pests. This proves the commercial approach of the farmers. The very good flowering was there we could not see any pollinating insect such as bees. There were no earthworms in the soil. This is the indication of the pollinating insect such as useful organisms; this is due to the toxic pesticides. Occurrence of the white killing of these otherwise useful organisms; it is due to the application of killing of these other who are not an eregions; it is due to the application of uncomposed cow dung.

s is the serious problem in section of pests, harms of pesticide about farming, Though the crop is control of pests, harms of pesticides to the environment, integrated pest management, biological control of pests, harms of pesticides to the environment, integrated pest management, and Biofertilizers and modern methods of harvesting, storage and

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ACKNOWLEDGEMENT:

We are thankful to the farmers in Satgaon Pathar who allowed us to visit their farms and for providing

REFERENCES:

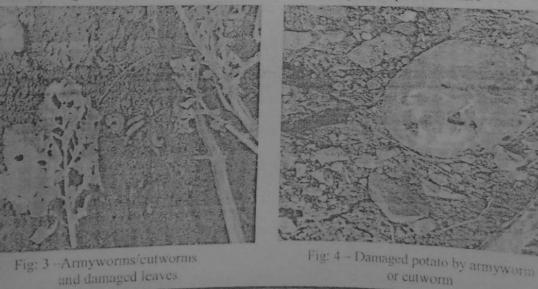
- 1. Andersson, B. and Stromberg, A. 2001. What has happened to potato late blight? 2. Annonymous. 1983. Annual Scientific Report. Pp.93-95. Central Potato Research Institute, Shimla.
- 3. Ditt, B.L. 1979. Bacterial and fungal Diseases of Potato, ICAR, New Delhi, 196pp. 4. Ganguli, A. and Pau, D.K. 1953. Wart disease of potatoes in India.Sci.Cult. 18:605-606
- 5. Jones, F.G.W. 1961. The potato root eelworm, Hetorodera rostochiensis woll. In India. Current.
- 6. Nachmias, A. 1994. Assessing progenies of potato for resistance to early blight. Potato Res.
- 7. Singh, N. and Singh, H. 1981. Irrigation, a cultural practice to control common scab of potato. J.
- 8. Skeen, G. 2000. Chemical control of potato early blight (Alternaria solaní), by using the new fungicide Skeemet 21.5 W.P.Revissta de Protection Vegetal. 15:77-80



Plate - 1

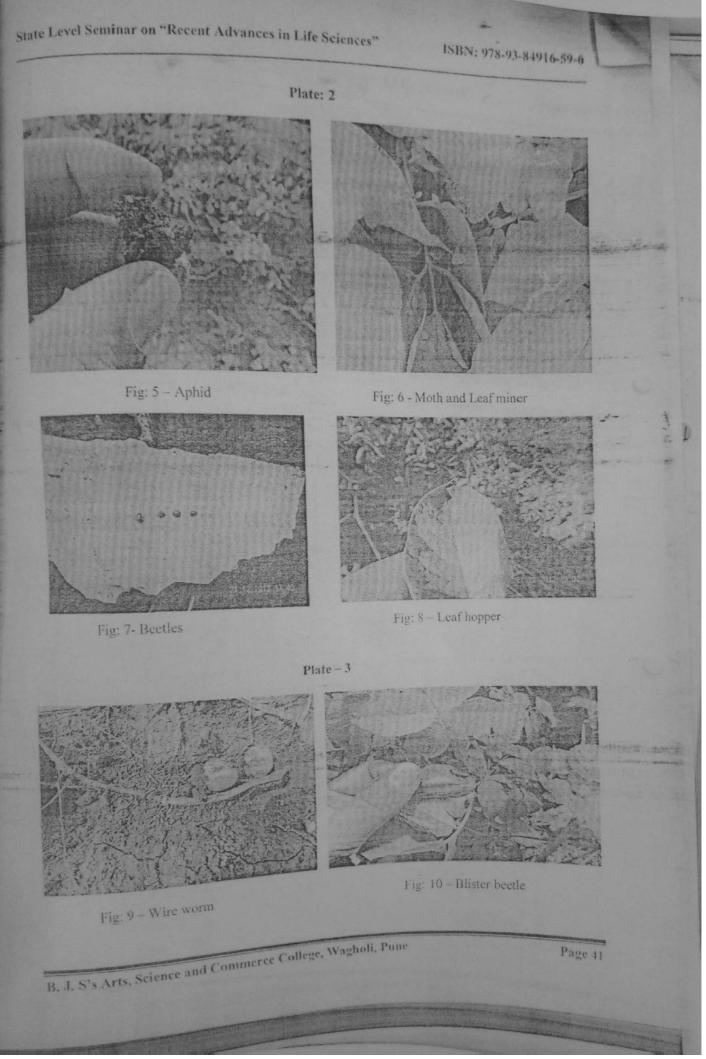


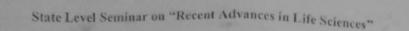
2: Crop inflorescence



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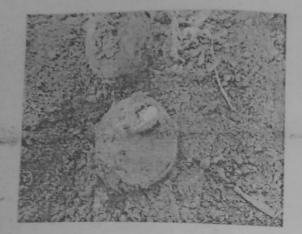


Fig: 11 - White grub



Fig: 12- Potato damaged by mice

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कॅपिटॉल बाँब स्फोट खटला

प्रस्तावना

भारतीय स्वातंच्यलढयात शेवटचे परिणामकारक आंदोलन म्हणजे छोडो भारत आंदोलन होय. या आंदोलनात पुणे जिल्हा अग्रेसर होता. आंदोलनाच्या प्रारंभीच नारायण दाभाइंच्या बलिदानापासून विविध महाविद्यालयातील विद्यार्थ्यांनी प्रेरणा घेऊन आंदोलनास चांगली गती दिलेली होती. आंदोलनाची तीव्रता कमी करण्यासाठी तत्कालीन पुणे जिल्हयाचे जिल्हाधिकारी मि.टी.ई. स्ट्रीटफील्ड यांना कफ्यू ऑर्डर काढण्याशिवाय गत्यांतर राहिले नव्हते. असे असले तरी भूमिगत लोकांनी दिलेला लढा हा म्हत्त्वाचा ठरला आहे. त्याचे नेतृत्व शिरूभाऊ लिमये यांनी केलेले आहे. पुण्यातील भूमिगत आंदोलनाच्या दृष्टीने कॅपिटॉल बाँबस्फोट व खटला, देहूरोड डेपो बाँब केस प्रकरण, काँग्रेस गुप्त रेडिओ केंद्र व महाराष्ट्र कट खटला या घटना महत्त्वाच्या आहेत. या घटनांपैकी कॅपिटॉल बाँबस्फोटाने पुणे शहरच नव्हेतर महाराष्ट्रतील ब्रिटिश सरकारला चांगलाच हदरा बसलेला होता.

कॅपिटॉल व वेस्टएंड चित्रपटगृहाची निवडः

ब्रिदिशांच्या दडपशाहिला धडा शिवण्यासाठी विद्यार्थ्यांनी बाँब तयार करून त्याचा वापर केलेला होता. त्याची क्षमता जरी कमी प्रमाणात असली तरी विद्यार्थ्यांनी केलेले धाडस हे भूमिगत आंदोलनाच्या दृष्टीने महत्त्वाचे होते. '

छोडो भारत आंदोलनकाळात राष्ट्रीय गीत व झेंडावंदनाचे कार्यक्रम नित्याचेच होत होते. त्याचाच भाग म्हणून भूमिगत लोकांनी येथील चित्रपट गृहात राष्ट्रगीत वाजविले पाहिजे अशा अशयाचे पत्रक चित्रपटगृह मालकांना पाठविली होती. काही चित्रपटगृहात शेवटी *गॉड सेव द किंग्ज* गीत वाजवून युनियन जॅक फडविला जात होता.^{*} पुण्यातील अनेक चित्रपटगृह मालकांनी भूमिगत लोकांच्या पत्रकास पाठिंबा दिला. परंतु कॅम्प मधील कॅपिटॉल, वेस्टएंड व एम्पायर या चित्रपट गृहांच्या मालकांनी मात्र

वरील पत्रकास पाठिंबा दिला नाही. त्यामुळे या चित्रपटगृहात स्फोट करण्याचे नियोजन भूमिगत लोकांनी केले.

कॅपिटॉल चित्रपटगसाठी बाबूराव चव्हाण, बापू साळवी, दत्ता जोशी तर व वेस्टएंड चित्रपट गृहासाठी स्फोट हरिभाऊ लिमये, शंकर कुलकर्णी, रामसिंग परदेशी यांची निवड करण्यात आलेली होती. वरील दोन्ही चित्रपट गृहात स्फोट करण्यासाठी २६ जानेवारी १९४३ हा दिवस निवडला होता. परंतु या दिवशी पोलिस यंत्रणा अधिक असल्याने तत्पूर्वीच स्फोट केला पाहिजे यादृष्टीने बाबूराव चव्हाण व बापू साळवी हे दोघेही चित्रपट गृहाची पहाणी करून आलेले होते. २४ जानेवारी रोजी गॅरी कपूरचा नवीन चित्रपट प्रदर्शित होणार होता. त्या दिवशी ब्रिटिश सैन्याची संख्या देखील जास्त असणार होती.

चित्रपट गृहातील पहिल्या काही खुच्यांचा रांगा ह्या ब्रिटिश अधिकारी व लष्करासाठी राखीव ठेवलेल्या होत्या. त्यामुळे या ठिकाणी स्फोट केला तर भारतीय सैनिकांना काहीही होणार नाही. पुढे निश्चित केलेल्या योजनेनुसार २४ जानेवारीच्या रात्री नऊ ते साडेनऊ वाजता कॅपिटॉलमध्ये स्फोट झाला. त्यामध्ये एक ब्रिटिश अधिकारी मृत्यू तर १२ सैनिक जखमी झाले. वेस्टएंड मधील बाँब कचरा असलेल्या बादलीत ठेवला होता. तेथे धूर निघत असल्याचे पाहून पाठीमागील रांगेत बसलेल्या विल्यम रॉबसन यांनी तत्काळ तो बाँब घेऊन पाण्याच्या बादलीत टाकून निकामा केला. त्यामुळे तेथे स्फोट झाला नाही.³

या दोन्ही ठिकाणच्या स्फोटासाठी देहूरोड मधील ऑर्डनन्स डेपोतील हॅंड ग्रेनेडचा वापर केलेला नव्हता. परंतु सरकारी कागदपत्रात मात्र हॅंड ग्रेनेड ३६ या प्रकारातील होता असा उल्लेख आहे. अशाच हॅडग्रेनेडचा वापर अहमदनगर मधील सरोष चित्रपटगृहात देखील झालेला होता. पुण्यात स्वत: तयार केलेल्या टाईम बाँबचा वापर केलेला होता. असे टाईम बाँब तयार करण्यासाठी वापरलेले तंत्रज्ञान हे आंदोलनाच्या वृष्टीने महत्त्वाचे होते. बाँब तयार करण्याचे कार्य प्रथम सदाशिव पेठेतील निळूभाऊ लिमये यांच्या घरी नंतर ते प्रभात रोडवरील माधव पाटील राहत यांच्या दुर्गाकुटीर या इमारतीमध्ये सुरू झाले. पोटॅशियम क्लोराईट, गंधक व पिठी साखर यांचे मिश्रण करुन बाँबचा प्रयोग करत असताना निळूभाऊ लिमये व बापू डोंगरे यांना भाजले होते. पुढे निळूभाऊ लिमयेची जाना बाबूराव चव्हाण व बापू साळवी यांनी घेतली होती. पोटॅशियम क्लोराईट, गंधक व पिठी साखर यांचे मिश्रण करुन बाँबचा प्रयोग करून वॉच बॉक्स मध्ये ठेवून त्यामध्ये डिटोनेटर ठेवून बाहेर रेबीन किंवा अन्य अशा कपड्याने घट्ट बांधून ठेवणे. असा बाँब छोट्या कागदी बॉक्स मध्ये ठेवून त्याला लहानसे छिद्र पाडून तेथे ऑसिड असलेली बाटली उलटी

ठेवणे त्या बाटलीच्या तोंडावर जे बटर पेपर लावले होते त्यावरून वेळेचे नियोजन केले होते. बाटलीच्या तोंडवर लावलेल्या बटर पेपरचा एक थर असेल तर तो पेटून डिटोनेटर पेटण्यास तीन मिनिट लागत होते. वरील दोन्ही ठिकाणी टाईम बाँब वापरलेले होते त्यामधील बाटलीच्या तोंडावर बटर पेपरचे तीन थर दिलेले होते. त्यामुळे बाँबचा वेळ नऊ किंवा दहा मिनिटे असा होऊन त्याच वेळी स्फोट झाला. दोन्ही ठिकाणी स्फोट करण्यासाठी सायकलवरून जात असताना लाल देवळाजवळ अंधारात बाँबच्यावर ऑसिड ठेवलेली बाटली उलटी केलेली होती.⁴ त्यामुळे असा धोकादायक बाँब हातातील पिशवींमध्ये घेऊन जाऊन तेथील खुर्चीखाली ठेवून पलायन होणे एवढे धाडशी कार्य केले असल्याचे कॉपिटॉल बाँबस्फोट खटल्यातील सहभागी आलेले हरिभाऊ लिमये आपल्या मुलाखतीमधून सांगतात.

कॅपिटॉल बाँब स्फोटाने ब्रिटिश सरकारला चांगलाच हदरा बसलेला होता. स्फोटाची चौकशी करण्यासाठी मि. रोच या अधिकाऱ्याची नेमणूक झाली त्याने पुण्यातील धरपकडीचे सत्र सुरू केले. पण या स्फोटासंदर्भात निश्चित असा कोणताही पुरावा पोलिसांना मिळत नसल्याने शेवटी सरकारला या स्फोटाची माहिती देणाऱ्यास पाच हजार रूपयांचे बक्षिस जाहीर करावे लागले होते.⁹ या स्फोटापूर्वी अहमदनगर शहरातील सरोष चित्रपट गृहात देखील २७ डिसेंबर १९४२ रोजी रात्री ११.०० वाजता स्फोट झालेला होता.

स्फोटानंतर बाबूराव चव्हाण व शंकर कुलकर्णी हे भूमिनत होऊन मुंबईस तर बापू साळवी हे नाशिकला गेले. मुंबईतील ब्रेबॉर्न स्टेडियममधील क्रिकेटची मॅच पाहून बाहेर पडत असतानाच बाबूराव चव्हाण यांना पकडले. तेवढ्यात कुलकर्णीनी बाबूरावांचे नाव घेताच त्यांनाही पकडले (२० मार्च १९४३). त्यांच्याकडून पुण्यातील स्फोटाची चौकशी करून दुसऱ्याच दिवशी पुण्यात रामसिंह परदेशी यांना पकडण्यात पोलिसांना यश मिळाले. पुढे दोनच दिवसात दत्ता जोशींना नागनाथ पाराजवळील नाना आगाशे यांच्या क्लासमध्ये पकडले. पुढे हरिभाऊ लिमये, बापू साळवी, बापू डोंगरेंनाही पकडले. अशा पाद्धतीने स्फोटातील मुख्य आरोपींना पकडून येखडा कारागृहात अंडर ट्रायलमध्ये ठेवले.^{*}

कॅपिटॉल बाँब स्फोट खटल्यास प्रारंभ

वरील सर्वांवर केस खटला सुरू झाला तोच कॅपिटॉल बाँब स्फोटला होय. या केस खटल्यात आरोपी नं.१ बाबूराव विठोबा चव्हाण, आरोपी नं.२ बापू उर्फ प्रभाकर शिवराम साळवी, आरोपी नं.३ शंकर त्रिंबक कुलकर्णी, आरोपी नं.४ रामसिंग रतनसिंग परदेशी असे चार मुख्य आरोपी होते. तर हरिभाऊ लिमये, दत्ता जोशी, यशवंत डोंगरे व भालचंद्र वायाळ यांना माफीचे साक्षीदार केले. १९ जुले

१९४३ रोजी वरील पाच मुख्य आरोपींवरील खटला येरवडा तरुंगात सब-डिव्हिजनल मॅजिस्ट्रेट रा. सा. फुले यांच्या पुढे सुरू झाला. कॅपिटॉल चित्रपटगृहात प्रत्यक्ष चित्रपट पाहण्यास उपस्थित असणाऱ्या डी कॉस्टा या स्त्रीची साक्ष झाली. ''एक हिंदी इसम आमच्या शेजारच्या खुर्चीवर येऊन बसला. सिनेमाचा खेळ सुरू झाल्यावर तो सिनेमागृहाच्या बाहेर गेला व काही वेळाने पुन: पहिल्या जागी येऊन वसला. तो बसला असतां त्याचे लक्ष सारखे दरवाजाकडे होते. पुनः तो आपल्या जागेवरुन उठला आणि माइया खुर्ची जवळून दरवाजा बाहेर गेला. इतक्यात मला माइया शेजारी बसलेल्या मि. स्मिथ यांच्या पलीकडे जाळ दिसला व लगेच स्फोट ऐकूं आला.'' अशी साक्ष झाली. त्यानंतर स्फोटात जखमी झालेल्या ट्रूपर रिमथ, भालचंद्र वायाळ, शं. रा. बापट, ब. वि. ढवळे यांच्या साक्षी झाल्या. कॉस्टा व ट्रूपर रिमथ यांची साक्ष ब्रिटिश सरकारला जेवढी महत्त्वाची होती तेवढीच भालचंद्र वायाळ यांची साक्ष महत्त्वाची होती. भालचंद्र वायाळ यांना पोलिसांनी माफीचे साक्षीदार केले होते. शिरुभाऊ लिमये यांच्या विरुद्ध या माफीच्या साक्षीदाराची साक्ष घेऊन महाराष्ट्र कटाचा खटला यशस्वी करून दाखविण्याचा प्रयत्न पोलीस करत होते पण प्रत्यक्ष भालचंद्र वायाळ यांनी 'मी शिरुभाऊंना एक कार्यकर्ता म्हणून ओळखतो, पण ते मला ओळखतात की नाही हे मला माहीत नाही." अशी साक्ष दिली. त्यामुळे खालच्याच कोर्टात शिरुभाऊ लिमये निर्दोष असल्याचे घोषित झाले. या केस खटल्यातील बाबूराव चव्हाण, बापू साळवी, शंकर कुलकर्णी व रामसिंग परदेशी या चार आरोपींवर इं.पि.को कलम ३०२, ३२६, १२० व व स्फोटक द्रन्य कायदा व भारत सरंक्षण कायदचाखाली आरोप ठेवून केस सेशन कर्टात केस पाठविण्यात आली. हरिभाऊ लिमये व दत्ता जोशी यांच्यावरील कॅपिटॉल बाँबस्फोट संदर्भातील गुन्हा माफ करून माफीचे साक्षीदार केले. गुन्हा माफ केल्याने आपनास पाहिजे तशी या दोघांकडून साक्ष घेण्याचा पोलिस प्रयत्न करत होते. त्यासाठी काहीवेळा पोलिसांनी दमबाजी देखील केलेली होती. हे पुढे हरिभाऊ लिमयेंच्या साक्षीतून दिसून येते. ३० डिसेंबर १९४३ रोजी माफीचे पाहिले साक्षीदार हरिभाऊ लिमये यांची पुढीलप्रमाणे साक्ष झाली -

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'माइयावर कोणतेही अटक वॉरंट नसताना सी. आय. डी. पोलिसांनी पकडून लष्कर हद्दीतील पोलिस स्टेशनमध्ये रात्रभर ठेवले. दुसऱ्या दिवशीपासून ते आठ दिवस सिव्हिल लाईन पोलिस स्टेशनमध्ये ठेवले. तेथील सी. आय. डी. पोलिसांनी मारहाण करून आम्हाला जबरदस्तीने खोटा जवाब देण्यास सांगितले. परंतु आता खरा जबाब देत आहे. चार आरोपींपेकी माइया कोणीही ओळखीचे नाही. साळवी व जोशी हे कॅपिटॉलमध्ये गेलेले माहीत नाही. मी व शंकर कुलकर्णी वेस्टएंडमध्ये गेलो नव्हतो.

साळवी हे मला कधीच भेटले नाहीत आमच्या घरात ते कधीच झोपले नाही.^{''} या नंतर दुसरे माफीचे साक्षीदार दत्ता जोशी यांची पुढीलप्रमाणे साक्ष झाली. 'मला २४ मार्चला अटक करण्यात आली. यापूर्वी दिलेले जबाब सर्व खोटे आहेत. आरोपी साळवी हे माझ्याबरोबर कॅपिटॉल मध्ये बाँब ठेवण्यास आले होते हे खोटे आहे. कोर्टापुढे असलेली पन्न्याची पेटी मी साळवी जवळ केव्हाच पाहिली नव्हती. कोणताही आरोपी माझ्या परिचयाचा नाही. आम्ही सांगतो तसा जबाब द्या. नाहीतर तुम्हाला मारहाण करू किंवा फाशी देऊ, असा पोलिसांनी दम दिला होता.

२४ तारखेच्या रात्री कॅन्टोमेंट पोलीस स्टेशमध्ये झालेल्या मारहाणीत रक्ताच्या गुळण्या झालेल्या होत्या. त्यामुळे ते सांगतील तशी मी खालच्या कोर्टात साक्ष दिली. परंतु ती सर्व खोटी आहे.^{'s} या जबानीनंतर मला पोलिसांच्या ताब्यात देऊ नये, अशी कोर्टाला विनंती केल्यामूळे पुढे त्यांना येरवडा मध्यवर्ती कारागृहात ठेवले. या दोन्ही जबानी साक्षीमुळे ही केस सरकारवरच उलटली. मि. रोच यांची कोर्टात साक्ष चालू असताना चिगोपंत दिवेकर यांनी 'ऑगस्ट क्रांतीचा विजय असो' अशी घोषणा देत त्यांच्या पाठीवर चाकूचा हल्ला (८.१.१०४४) केला.^{9°} परंतु ते वाचले. दिवेकर यांना अटक होऊन सहा वर्ष सक्तमजुरीची शिक्षा झाली.

माफीचे साक्षीदार हरिभाऊ लिमये यांनी श्री. गो. हिंगे व वि. र. धामणीकर यांच्या दुकानातून सायकली भाड्याने आणलेल्या होत्या. वरील दोघांच्या साक्षीतून हरिभाऊंना ओळखतो हे स्पष्ट झाले होते.

बी. एच. हॉस्पिटल मध्ये नोकरीस असणारे मि. जॉन डेव्हिडसन यांची साक्ष झाली. त्यांनी सांगितले की, 'रक्ताने ओले झालेले कपडे पोलिसांकडे दिले. सध्या जे कपडे आहेत ते मीच दिलेले आहेत.' उलट तपासणीत सांगितले की, 'हे कपडे कोणत्या सैनिकाचे आहेत हे मला माहीत नाहीत तसेच हे कपडे २४ तारखेला मेलेल्या सैनिकाने घालताना पाहिले नव्हते.'

माफीचे तिसरे साक्षीदार बापूसाहेब डोंगरे होय. पोलिसांच्या दबावामुळेच खालच्या कोर्टात खोटी साक्ष दिली असे डोंगरेंनी सांगून आपणास दुर्गाकुटीर बांगला माहीत नाही. मी सात डेटोनेटर्स आणून आरोपी नं. १ जवळ दिलेले नाहीत असे सांगितले. या साक्षीवरुन पुन्हा पोलिसांचे पितळ उघडे पडले. सी.आय.डी. खात्याचे सब इन्स्पेक्टर मि. वा. ल्यू रणभिसे व पोलिस अधिकारी श्री. पेंडसे यांनी मात्र आपल्या जबानी साक्षीत नमूद केले की, 'या माफीच्या साक्षीदारांना आम्ही केव्हाच मारहाण केलेली नव्हती.'⁹¹

दि. १९.२.१९४४ रोजी बाबूराव चव्हाण यांनी आपल्या जवानीत कोर्टाच्या प्रश्नांना उत्तर देताना सांगितले की, ''मी काँग्रसचा सभासद नाही व त्या चळवळीशी माझा संबंध नाही आरोपी नं २ व ३ यांची माझी ओळख नाही अटक होईपर्यंत मी माझ्या घरातच राहत होतो 'दुर्गाकुटीर' व राष्ट्रसेवादलाची जागा मला माहीत नाही. साक्षीदार डोंगरे माझ्या माहितीचा नाही डेटानेटर्स ही काय वस्तू असते हे मला माहीत नाही. तसेच माफीचे साक्षीदार हरि लिमये यांची माझी ओळख नाही. ते कोठे राहतात हे ही मला ठाऊक नाही. उचालाग्राही द्रव्याचे मिश्रण व टाईम बाँब या पैकी मी काहीच तयार केले नाही तसे करण्याचे मला काही कारण नव्हते.'' आरोपी नं. २ व साक्षीदार जोशी यांची माझी ओळख नाही. त्वांची पेटी देतो असेही सांगितले नाही. साक्षीदार लिमये, जोशी, डोंगरे यांनी सांगितले नाही व टाइम बाँबची पेटी देतो असेही सांगितले नाही. साक्षीदार लिमये, जोशी, डोंगरे यांनी सांगितलेले व आरोपी नं. ४ चा कवुली जबाब हे सर्व खोटे आहे. पोलिसांच्या मारहाणीमुळे व धमकीमुळे त्यांनी तसे सांगितले असेल. १७ एप्रिल रोजी झालेल्या आयडेंटीफिकेशन परेडच्या वेळी ट्रमर स्मिध यांनी आरोपी नं. २ ला प्रथम ओळखले नाही. नंतर ओळखले तीच गोष्ट मिसेस कॉस्टाबाईच्या बावतीत झाली माझा या गुन्ह्याशी काही संबंध वाही.

(dolo)

यानंतर आरोपी नं. २ बापू ऊर्फ प्रभाकर शिवराम साळवी यांनी आपल्या जबानीत असे सांगितले की, ''या कोर्टात माझ्या विरुद्ध आलेले सर्व पुरावे खोटे आहेत. परेडच्या वेळी मि. रोच यांनी खून केल्यामुळेच डी. कॉस्टाबाईना मला ओळखून काढता आले. माझा या गुन्ह्याशी काही सबंध नाही.''

आरोपीनंतर नं. ३ शंकर त्रिंबक कुलकर्णी यांची जबानी साक्ष, ''या कोर्टात माझ्या विरुद्ध आलेला सर्व पुरावा खोटा आहे. आरोपी नं. १ व २ यांच्याबरोबर किंवा इतर कोणाबरोबर 'दुर्गाकुटीर' बंगल्यात राहत नव्हतो आरोपीशी पूर्वीची माझी ओळख नाही दुर्गा कुटीरमधील स्फोटक द्रव्याच्या साठ्याची मला माहिती नाही. हरि लिमये यांच्या घरी हॅंडग्रेनेडस व रसायण आणली आणि टाइम बाँब बगेरे तयारी करण्यास मी मदत केली असे जे सांगण्यात आले ते सर्व खोटे आहे. भोपटकर हे नाव मी धारण केले नव्हते. मी पोलिस लॉकअपमध्ये असता मला रणपिसे, पेंडसे व अंबिके या तीन पोलिस अधिकाऱ्यांनी मारहाण केली. टाइम बाँबची पेटी वेस्टएंड चित्रपट्गृहात मी ठेवली नाही. पंचासमक्ष मी पोलिसांना ट्रंकेतून खाकी रंगाची हातरुमाल काढून दिला नाही. तसेच मी पोलिसांना कोणतेही दुकान दाखविले नाही. लिमये, जोशी, डोंगरे यांचे माझ्याशी वैर नाही. त्यांनी माझ्या विरुद्ध साक्ष दिली याचे

कारण पोलिसांनी केलेली मारहाण हेही असू शकेल, मला तुरुंगात गेले ११ महिने डांबुन टेवण्यात आजे आहे.''

आरोपी नं. ४ रामसिंग स्तनसिंग परदेशी वांनी आपल्या जवाबात असे सांगितले की. "पुण्याच्या अँड. सिटी. मॅजिस्ट्रेटपुढे ९.४.१९४३ रोजी मी जो कबुली जबाब दिला तो खोटा आहे. अटक केल्यानंतर ७-६ दिवसांनी पोलिसांनी मारहाण केली. पोलिसांनी माइया कडून जवरदस्तीने कबुली जबाब घेतला. त्यावर माझी सहीही जबरदस्तीनेच घेण्यात आली. मी कौंग्रेसचा, समासद नाही व चळवळीत कधीही सहमाग घेतला नाही."

वरील सर्व मुख्य आरोपींच्या जवानीनंतर सरकारी वकील रावसाहेब गुप्ते यांचे आषण झाले. त्यांनी कॅपिटॉल व वेस्टएंड चित्रपटगृहातील स्फोटात दोन किंवा त्याहून अधिक लोकांचा त्या मध्ये सहभाग असल्याचे सांगितले. त्यानंतर आरोपींचे मुख्य वकील के. एफ नरिमन यांचे भाषण झाले. त्यांनी प्रथम आरोपींवर लादलेले आरोप कसे चुकीचे आहेत हे सांगितले उदा. शंकर त्रिंवक कुलकर्णी यांच्या पेटीतील कापडावर एस. टी. के. अशी आग्र अक्षरे लिहिलेली होती. म्हणून त्यांना तत्काळ अटक झाली होती. आरोपींपैकी कोणीही लष्करी स्फोटाच्या संदर्भात शास्त्रज्ञ नव्हता किंवा विज्ञान शास्त्रेचे विद्यार्थी नव्हते. त्यामुळे त्यांच्यावर बाँब तयार करण्याचा जो गुन्हा लादला होता त्याला प्रत्यक्ष कोणताही पुरावा नव्हता. शेवटी सरकारी साक्षीदारांनी दिलेल्या साक्षी कशा चुकीच्या आहेत हे सांगितले. कॅपीटॉल चित्रपट गृहात कॉस्टा या स्त्रीने अंधारात साळवींना ओळखणे व पुढे अनेक दिवसांनी ओळख परेड झाली त्यावेळी त्याच माणसाला ओळखने हे शक्य नाही. मि. स्मिथ यांच्या पायात असणारा धातृचा तुकडा तीन चार दिवसानंतर काढला. तोपर्यंत त्यांना तो तुकडा कसा जाणवला नाही. स्फोटात कॉस्टा यांचा झगा जळाला. तो पुराव्यासाठी सादर केला. परंतु त्यावर जळल्यासारखी कोणतीही ही खूण दिसत नाही. 1ª या वरून वरील सरकारी साक्षीदारांनी दिलेल्या साक्षी ह्या द्विधा अवस्थेतील असल्याचे स्पष्ट दिसत आहे. शेवटी एम. एस. पाटील या न्यायधिशांनी योग्य पुराव्याअभावी वावृराव चव्हाण, प्रभाकर साळवी, शंकर कुलकर्णी व रामसिंग परदेशी या मुख्य आरोपींची कॅपिटॉल बाँब स्फोट खटल्यात निर्दोष असल्याचे जाहीर केले." परंतु बाबूराव चव्हाण, प्रभाकर साळवी, शंकर कुलकर्णी हे तिघेही महाराष्ट्र कटाच्या खटल्यातील आरोपी होते. तर रामसिंग परदेशी व माफीचे साक्षीदार हरिभाऊ लिमये, दत्ता जोशी व बापूसाहेब डोंगरे हे कोर्टातून बाहेर पडताच पुन्हा भारत संरक्षण कायद्याखाली अटक केली. पुढे ते एक वर्षभर कच्चे कैदी म्हणून येखडा तुरूंगातच होते.

महाराष्ट्र कट खटला

महाराष्ट्रातील विविध ठिकाणी लोकांनी दळणवळणाची साधने, सरकारी कर्यालयाची (मामलेदार कार्यालय, पोस्ट ऑफीस, रेल्वे कार्यालय, चावडी) मोडतोड, जाळपोळ केलेली होती. युद्धात अडथळा आणणे, स्फोटक द्रव्य सोबत ठेवणे अज्ञा कृत्याच्या आरोपाखाली ४० तरूणांवर खटला भरण्यात आलेला होत. तोच महाराष्ट्र कट खटला होय. या खटल्यात जे ४० आरोपी निवडलेले होते. त्यामध्ये मुख्य आरोपी म्हणून शिरुभाऊ लिमयेंचे नाव घेतलेले होते. ४० पैकी ७ आरोपी सरकारला फरारी म्हणून घोषित करावे लागले होते. या खटल्यातील मुख्य ३३ आरोपींची नावे पुढील प्रमाणे -

१.शिरुआऊ लिमये २.वसंत विञ्चल परांजपे ३.वसंत बापूराव आळेकर ४.चिंतामणी वासुदेव गुप्ते ७.मल्हार रामचंद्र कुलकर्णी ६.अच्युत शंकर आपटे ७.माधव पंठरीनाथ पाटील ८.बाबूराव विठोबा चव्हाण १.शंकर त्रिंबक कुलकर्णी १०.भालचंद्र वायाळ ११.प्रभाकर ऊर्फ बापूसाहेब साळवी १२.नारायण गणेश गोरे १३.माधव पुरुषोत्तम लिमये १४.दिगंबर शांताराम कडू १७.वसंत वामन बापट १६.नरहर महादेव तुंगार ऊर्फ बळवंत बिडकर १७.अनंत वासुदेव ऊर्फ अण्णासाहेब सहस्रबुद्धे १८.माधव गजानन बुद्धिसागर १९.विनायक महादेव ओक २०.वसंत विनायक नगरकर २१.गोविंद मोरेश्वर करमरकर २२.रामचंद्र विञ्चल तेलंग २३.पुंजा बापूजी कडू २४.गोविंदलाल नाथलाल पारेख २७.रामचंद्र पंढरीनाथ वडके २६.सदाशिव शंकर बागाईतकर २७. विष्णु महादेव फणसे २८.श्रीपाद रघुनाथ जोशी २९.शांतीलाल पानाचंद शहा ३०.वामन गोविंद ऊर्फ लालजी कुलकर्णी ३१.जणतप रामचंद्र तेलंग ३२.श्रीकृष्ण बिवलकर ऊर्फ केसकर ३३.गणेश काशीनाथ जोशी इत्यादी.

फरारी म्हणून घोषित केलेले - १.वसंत सरवटे २.जी. एस. ऊर्फ बाळ गोखले ३.पाठक पेंटर ४.विञ्चल पटवर्धन ऊर्फ वासू भट ५.पी. डी. अभ्यंकर ६.कांतीलाल पारेख ७.अनंतराव मेमाणे इत्यादी. या कट खटल्याच्या प्राथमिक सुनावणीकरिता खेडचे रेसिडेंट मॅजिस्ट्रेट एस. जी. देशपांडे यांची मॅजिस्ट्रेट म्हणून नेमणूक झालेली होती.

अशा पद्धतीने पकडलेल्या ३३ लोकांवर महाराष्ट्र कट खटला सुरू करण्याचा विचार पोलीस करत होते. या खटल्याशी कॅपिटॉल बाँब स्फोट खटल्याची सांगड घातलेली होती. त्यामूळे कॅपिटॉल बाँब स्फोट खटल्यातील आरोपींना जास्तीत जास्त कडक शिक्षा देऊन महाराष्ट्र कट खटला यशस्वी करण्यास पोलीस इच्छुक होते. माफीच्या आरोपींकडून आपल्याला पहिजे तशी जबानी साक्ष घेण्यासाठी

पोलीसांनी प्रयत्न केले होते. परंतु प्रत्यक्ष न्यायालयात कवुली जवाब देताना आरोपीना आर्म्ही ओळन्यत नाही असेच सर्वांनी नमूद केले होते. त्यामुळे महाराष्ट्र कट न्यटल्याचे प्रमुख शिरुआरू लिमये यांना तर निर्दोष सोडलेच पण पुढे अनेकजण निर्दोष सुटल्याने महाराष्ट्र कट न्यटला केवळ नायापुरताच राहिलेला होता.

संदर्भ आणि टिपा

- 9. Mumbai Archives, Home Department (special) File No. 1110-(6)
 - (13) 1- 1942, Dailya Report-Poona Dist.From 10.8.1942-28.1.1943.
- हरिमाऊ लिमचे, कारागृहातील पथिक, पुणे, १९८७, पृ. ६ (वेथून पुढे वा ग्रंथाचा उल्लेख कारागृहातील पथिक असा केला आहे.)
- Mumbai Archives, Home Department (special), File No. 1110 (92) 1943- Report of explosion at the Cpital Cinema, Poona.
- मुलाखत, हरिमाऊ वामन लिमवे, पुणे, दि. ७ ऑटॉवर २०१०.
- ७. काराग्रहातील पथिक, पृ. १९.
- ६. कित्ता.
- ७. कारागृहातील पथिक, पृ. ६९.
- ८. पूर्वोक्त, हरिभाऊ वामन लिमवे.
- ९. दैनिक केसरी, पुणे, ३ डिसेंबर १९४३, पृ. ४.
- 10. Mumbai Archives, Home Department (special) File No. 1110- (6)

(13) I- 1942, Dailya Report-Poona Dist.From 1.3.1943-24.2.1943.

- ११. दोनिक केसरी, पुणे, १७ डिसेंवर १९४३, पृ.३.
- १२. दौनिक केसरी, पुणे, २७ फेब्रुवारी १९४४, पृ.४.
- १३. दौनिक केसरी, पुणे, ३ मार्च १९४४, पृ. २.







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दामोदर हेरी चापेकर यांचे न्यायालयातील अप्रकाशित पन

डॉ.भूषण गोविंद फडतरे, इतिहास विभाग प्रमुख, भारतीय जैन संघटनेचे कला,विज्ञान व वाणिज्य महाविद्यालय, वाघोली, पुणे.

१९ व्या शतकाच्या उत्तरार्धात क्रांतीकारी चळवळीतील महत्वाची घटना महणजे चापेकरबंधूनी केलेला मि.रॅंडचा वध, पुण्यातील रेल्वे स्टेशनचा परिसर, रविवार पेठ, भाजी आळी, लोणार आळी, कसबा पेठ व शुक्रवार पेठ इत्यादी परिसरात प्लेगची साथ वेगाने पसरली होती. ही साथ ओटोक्यात आणण्यासाठी माताऱ्यातील उपजिल्हाधिकारी डब्ल्यू.सी.रॅंडची नेमणूक केली, मि.रॅंडने लष्कराच्या मदतीने प्लेगची साथ आटोक्यात आणण्यासाठी प्रयत्न सुरू केले. भारत मंत्री लॉर्ड जॉर्ज हॅमिल्टनने आदेश काढला की, 'साध्या उपायांनी जनता ऐकत नसेल आणि मारकारी उपाय योजनांना दाद देत नसेल तर आता जबरदस्ती करा, पण रोग आटोक्यात आणा.'' अनेकांना मारहाण तर केलीच पण महिलांशीही गैरवर्तन केलेली होती हे वृत्त पुढे पंडिता रमाबाईंनीच ज्ञानप्रकाशमध्ये व्यक्त केलेले होते.

'पुण्यात सध्या चालू असलेला धुमाकूळ' असा अग्रलेख लोकमान्य टिळकांनी समीत लिहिला. या अग्रलेखात ते नमूद करतात की, ''साथीच्या रोगांमुळे यंदा प्रणास शिमगा आठ दहा दिवस आधीच सुरू झाला आहे. ''१२ जून १८९७ पुण्यातील लकडी पुलाजवळील विठ्ठल मंदिरात लोकमान्य टिळकांच्या प्रण्यातील तकडी पुलाजवळील विठ्ठल मंदिरात लोकमान्य टिळकांच्या प्रण्यातील तर प्रा.श्रीधर गणेश जिन्सीवाले यांचे 'स्वदेश व स्वधर्म' या प्रण्यातर भाषण केले तर दुसऱ्या दिवशी प्रा. चिंतामण गंगाधर भानू यांनी प्राण्यावर भाषण केले तर दुसऱ्या दिवशी प्रा. चिंतामण गंगाधर भानू यांनी प्राण्यावराच्या वधाविषयी भाषण केले. ही तिन्ही भाषणे पुण्यातील विक्रिकानच्या देणारी ठरली. सभेच्या अध्यक्षस्थानी असलेल्या टिळकांनी

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शस्त्र हाती घेऊन राज्य उलथून पाडण्याचा प्रयत्न करणारे वासुदेव बळवंत फ डके हे आद्य क्रांतीकारक म्हणून ओळखले जातात ते पुढील काळात चाफे कर बंधू, स्वातंत्र्यवीर सावरकर यांच्या सारख्या क्रांतीकारी देशभक्तांचे स्फुर्तीस्थान बनले फडक्यचांच्या लढतीने भारुन गेलेल्या बंकीमचंद्र चट्टोपाध्याय सारख्या अव्वल दर्जाच्या प्रतिभावंताने फ डक्यांच्या बंडापासून प्रेरणा घेऊन आनंदमठ कांदबरी लिहली. बंकीमचंद्र १८७९ मध्ये इंग्रज सरकारची नोकरी करत होते. उघड उघड फडक्यचांच्या बंडा संबंधी गौरवपर लिहीणे त्यांना शक्य नव्हते म्हणुन १७६८ ते १७६९ सालातल्या दुष्काळाच्या पार्श्वभूमीवर बंगालमध्ये सन्यासांनी केलेल्या बंडाचा विषय त्यांनी निवडला पण आनंद मठ लिहतांना बंकीमबाबु समोर होते वासुदेव बळवंताचे बंड.

वासुदेव बळवंताच्या आधी इंग्रज राजवटीला सशस्त्र प्रतिकार इतर प्रांताप्रमाणे महाराष्ट्रातही झाला होता पण इंग्रजी विद्या घेतलेल्या इंग्रज सरकारची नोकरी करत असलेल्या तरुणांने इंग्रजाचे राज्य बुडविण्याचा केलेला प्रयत्न अभुतपुर्व होता इंग्रज राजवटी विरुध्द इंग्रजी विद्या घेतलेल्यांच्या मनात असंतोष घुमसत होता या असंतोषाला वाट करून देऊन राज्यकर्ते व प्रजाजन यांच्यामध्ये एखादा दुवा असण्याची गरज ॲल्यट्युम व्ह्युम या निवृत्त सनदी अधिकाऱ्याला वाटत होती, लोकांच्या मनातील दु:ख, भय आशा, आकांक्षा जेथे बोलवून दाखवता येतील असे एखादी व्यासपीठ नसेल तर असंतुष्ट माणसे शस्त्र हाती घेऊन १८५७ च्या उठावाच्या वेळी जशी इंग्रज राजवटी विरुध्द लढली तशी पुन्हा निकराने लढतील अशी व्ह्युम साहेबांना तीव्रतेने वाटू लागले, असे त्यांचे चरित्रकार विल्यम एडबर्न यांनी वासुदेव बळवंत फडक्यांच्या बंडाचा निःसंदिग्ध उल्लेख करून व्ह्युम साहेबांनी कांग्रेसची स्थापना करण्याचे कसे नेटाने प्रयत्न केले आहे हे स्पष्ट केले.

सारांश -

महाराष्ट्रातील आद्य क्रांतीकारक वासुदेव बळवंत फडके यांनी भारतीय स्वातंत्र आंदोलनातील सशस्त्र क्रांतीकारी गटाला एक महत्वपुर्ण प्रेरणा देवून स्वतंत्र आंदोलनातील क्रांतीकारी गट आपल्या जीवची पर्वा न करता ब्रिटीश साम्राज्य विरोधात शक्तीचा वापर करण्यास तयार झाला.

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(92)

साहित्य, कला, संशोधन च परिवर्तनवादी पुरोगामी विचाराशी बांधिलकी ठेवणारे त्रैमासिक







AMART, AMAR

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संपादक डॉ.मा.मा. जाधव

संपादन सहाय डॉ. बाबुराव खंदारे डॉ. माधव जाधव

प्रकाशक

अर्चना माधवराव जाधव बळीवंश प्रकाशन, 'बळीवंश', नृसिंह पॅलेसच्या मागे, नरहरनगर, नांदेड – ४३१ ६०५.

मुद्रित तपासणी दत्ता डांगे, ९८९००९९५४१

मुद्रक मुद्रा ऑफसेट प्रिंटर्स ॲन्ड प्रोसेसर्स शारदा टॉकीजजवळ, एम.जी. रोड, नांदेड-०३. □

मुखपृष्ठ, अक्षरमांडणी च सजावट विजयकुमार चित्तरवाड ९४२१९८७८०९

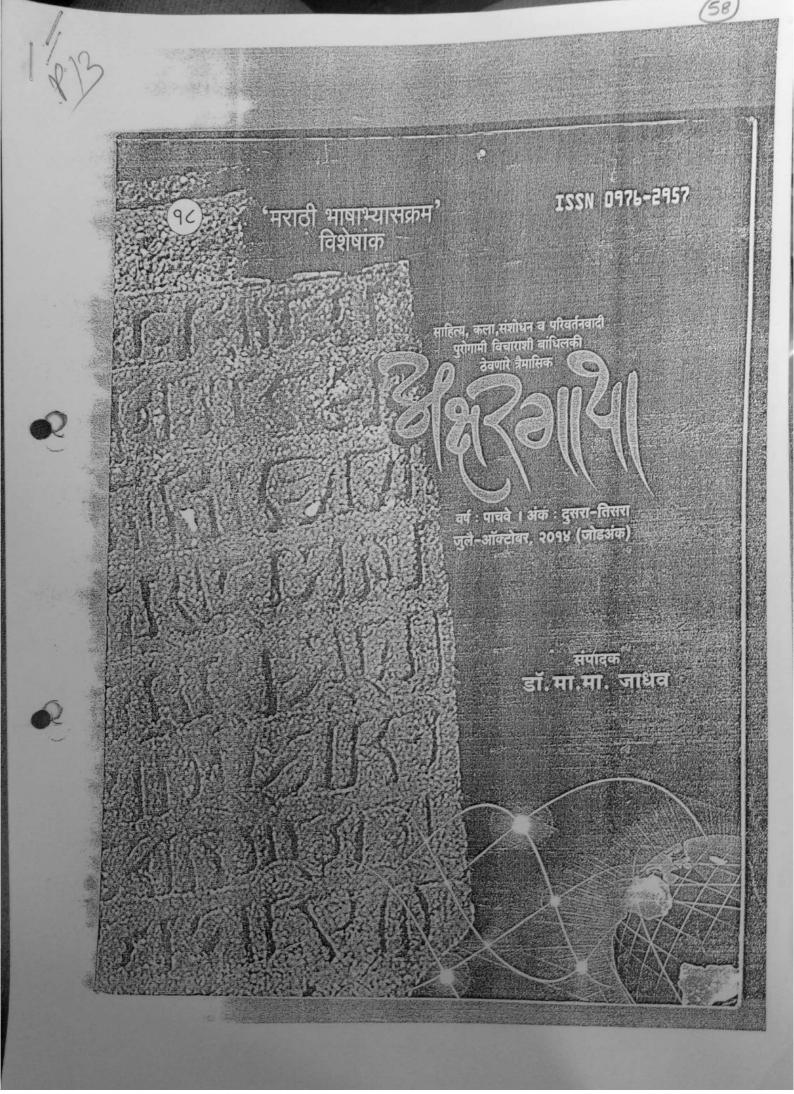
साहित्य व वर्गणी पाठविण्याचा पत्ता प्रा.डॉ. मा.मा. जाधव 'बळीवंश', नृसिंह पॅलेसच्या मागे, नरहरनगर, नांदेड – ४३१ ६०५. भ्र. ९४२२८७४३ँ३६. e-mail: akshargatha@gmail.com

वार्षिक वर्गणी ः ₹ २००/- त्रैवार्षिक वर्गणी ः ₹ ५००/-आजीव व्यक्ती ः ₹ २०००/- संस्था ः ₹ २५००/-या अंकाचे मूल्य ः ₹ १००/-

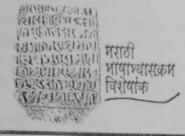
- वार्षिक वर्गणी केवळ मनीऑर्डर/डी.डी./ रोखीने भरावी. त्रैवार्षिक व आजीव वर्गणी मनीऑर्डर/डी.डी./धनादेश/धनाकर्ष 'अक्षरगाथा' या नावाने पाठवावा.
- मनीऑर्डरने वर्गणी पाठवताना संदेशच्या ठिकाणी काळजीपूर्वक पूर्ण पत्ता, पीन कोड, संपर्क क्रमांकासह (फोन/भ्रमणध्वनी) लिहावा.

वर्गणीदार असेही होता येते भारतीय स्टेट बँक (S.B.I.) यशवंतनगर, नांदेड शाखेच्या 'अक्षरगाथा' खाते नं. 32204333102 वर IFC Code SBI No 001922 MICR Code 431002093 वर्गणी रक्षम + ₹ ३० (शाखा विनिमय फीस) भरून रकमेच्या चालानची झेरॉक्स प्रत ब आपला पत्ता आमचे पत्त्यावर पाठवून देऊन आपणास वर्गणीदार होता येते.

महाराष्ट्र राज्य साहित्य आणि संस्कृती मंडळाने या नियतकालिकाच्या प्रकाशनार्थ अनुदान दिले असले तरी, या नियतकालिकातील लेखकांच्या विचारांशी मंडळ व शासन सहमत असेलच असे नाही.



म राठी भाषा भ्या स क्रम विशेषां क



पदवी व पदव्युत्तर स्त्ररावरील मराठीचा अभ्यासक्रम–एक विचार

भारतीय जैन संघटनेचे कला, विज्ञान, वाणिज्य महाविद्यालयात मराठीचे प्राध्यापक. संत तुकोबाचे अभंग. मराठी जैन कथांचा अभ्यास या विषयावर संशोधन. विविध नियतकालिकांतून शोधनिबंध लेखन. प्रा.डॉ. जगदीश आवटे

मराठीचे ज्येष्ठ अभ्यासक, माजी कुलगुरू आणि अखिल भारतीय मराठी साहित्य संमेलनाचे माजी अध्यक्ष डॉ. नागनाथ कोत्तापल्ले यांच्या अध्यक्षतेखाली महाराष्ट्र सरकारने एक भाषा सल्लागार समिती नियुक्त केली होती. महाराष्ट्र राज्याच्या पढील २५ वर्षांसाठीच्या मराठी भाषाविषयक धोरणाचा मसुदा तयार करण्या' ची जबाबदारी या समितीवर सोपविण्यात आली होती. या समितीने नोव्हेंबर २०१४ मध्ये आपला यासंदर्भातला मसुदा राज्य सरकारला सादर केला. या मसुद्याच्या माध्यमातून डॉ. कोत्तापल्ले समितीने अनेक महत्त्वाच्या शिफारशी केल्या आहेत. यातील काही शिफारशी पढीलप्रमाणे -राज्यातील सर्व अमराठी माध्यमांच्या शाळांमधून दहावी परीक्षेपर्यंत मराठी भाषा सक्तीची करावी. प्रत्येक विद्यापीठात 'मराठी भाषाभ्यास आणि भाषाविज्ञान' असा स्वतंत्र विभाग स्थापन करावा. स्वतंत्र मराठी भाषा विद्यापीठ स्थापन केले जावे. येत्या पाच वर्षांमध्ये उच्च शिक्षणातील वैद्यकीय, कृषी, विधी, उन्मियांत्रिकी, औषधनिर्माण, वास्तुरचनाशास्त्र वगैरे सर्व विषयांचे शिक्षण भराठीतून देण्याची व्यवस्था करावी.

वरीलपैकी शेवटची शिफारस ही गांभीर्याने समजून घेण्याची गरज आहे. कारण ही शिफारस केवळ कविकल्पना ठरेल. की काय, अशी शंका येण्यासारखीच सध्याची स्थिती आहे. किंबहुना अशी शिफारस करणे किंवा अपेक्षा बाळगणे हेच मुळी हास्यास्पद ठरण्याची शक्यता अधिक आहे. त्याचे कारण म्हणजे आज मराठी भाषेबाबत,

५०१, बी, विशालदीप रेसिडेन्सी, चंदननगर, पुणे- ४११०१४. फोन- ९४०३१३६३६२.

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'अक्षरगाथा' ISSN 0976-2957⊠। वर्षः पाचवे । अंकः दुसरा-तिसरा । जुलै-ऑक्टो.२०१४ (अंक १८)

मराठी भाषेच्या उपयोजनाबाबत वेगाने वाढत असलेला त्र्यूनगंड! (सबंध महाराष्ट्रातील मराठी माध्यमाच्या शाळा बंद पडत आहेत किंवा या शाळांतील विद्यार्थी संख्या कमी होत आहे आणि याच्या व्यस्त प्रमाणात इंग्रजी माध्यमाच्या शाळा अगदी खेडोपाडीसुद्धा सुरू होत आहेत. मराठी शिकवणाऱ्या शिक्षकांचीच नव्हे तर गावाकडील शेतमजुरांची व शहरातील रिक्षावाल्यांची, हातावर पोट असणाऱ्या छोट्या व्याबसायिकांची मुलेसुद्धा मोठच्या ऐटीत इंग्रजी माध्यमातून शिकू लागली आहेत. अर्थात इंग्रजी माध्यमातून शिकून त्यांचे कोटकल्याण होणार आहे, असे नव्हे.)

मराठीतून ज्ञाननिर्मिती करू शकणारे, तांत्रिक विषयांचे ज्ञान मराठीत आणणारे सक्षम मनुष्यवळ आपल्याकडे आहे का, हा खरा प्रश्न आहे. असे मनुष्यवळ तयार करण्याची आपल्याकडे काही ना काही व्यवस्था तरी आहे का, हाही प्रश्न आहे. जगातील सर्व ज्ञानशाखांतील उच्च शिक्षण येत्या पाच-सात वर्षांत मराठीतून देण्यासाठी, त्या बेताने मनुष्यवळ घडविण्यासाठी आपले सध्याचे पदवी व पदव्युत्तर स्तरावरील मराठीचे अभ्यासक्रम सक्षम व समर्थ आहेत काय, याची तपशिलातून जाऊन चिकित्सा करणे नितांत गरजेचे आहे. यासंदर्भातील काही निरीक्षणे खालीलप्रमाणे-

१) महाराष्ट्रातील सर्व विद्यापीठांमधून आणि संलग्न महाविद्यालयातून प्रामुख्याने मराठी साहित्याचाच अभ्यास होतो. मराठी भाषेच्या भाषा म्हणून अभ्यासाला, भाषेच्या भाषिक उपयोजनाला मुळात अभ्यासक्रमातच फार कमी स्थान आहे. (महाराष्ट्राबाहेर मराठीचे ज्या ज्या ठिकाणी अध्ययन-अध्यापन चालते त्या त्या ठिकाणीसुद्धा अशीच स्थिती आहे.)

२) साधारणतः दर तीन वर्षांनी अभ्यासक्रम
 बदलावा/ सुधारित करावा, अशी तरतूद महाराष्ट्र

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विद्यापीठ कायद्यामध्ये आहे. मात्र काही ना काही कारणांमुळे हे बदल/ सुधारणा लांबणीवर पडतात. यातील चिंताजनक बाब म्हणजे अभ्यासक्रम फक्त बदलले जातात. त्यात कालबद्ध, कालोचित सुधारणा आढळत नाही.

३) अभ्यासक्रंम ठरविणारी अभ्यासमंडळे दर पाच वर्षांनी बदलली/ निवडली जातात. या अभ्यासमंडळातील प्रतिनिधींच्या परिपक्वतेनुसार, एकूणच वकुबानुसार अभ्यासक्रमांची रचना होते. (प्रतिनिधी निवडणुकीतील राजकारणाचा, अभ्यासमंडळातील गटबाजीचा, प्रतिनिधींच्या विशिष्ट वैचारिक बांधिलकीचा प्रभाव अभ्यासक्रमाच्या निवडीवर पडतो.)

४) इयता १० वीनंतर उच्च गुणवत्ताधारक विद्यार्थी भरपूर, मोठ्या पगारांच्या अपेक्षेने विज्ञान वा तत्सम शाखांकडे बळतात. त्यामुळे पदवीसाठी कला शाखेकडे येणाऱ्या विद्यार्थ्यांची संख्यात्मक टक्केवारी अधिक असली तरी गुणात्मक टक्केवारी सुमार आहे.

५) हल्ली इ. ११ वी व १२ वीतून किमान कौशल्यावर आधारित (एमसीव्हीसी) प्रशिक्षण घेतलेले विद्यार्थीसुद्धा स्वयंरोजगाराकडे न वळता पदवी मिळवण्याच्या हेतूने कला शाखेकडे येतात.

६) कला शाखेमध्ये प्रवेश घेतलेले विद्यार्थी विविध निकषांनुसार पदवी स्तरावरील आपला विशेष अभ्यासाचा (स्पेशल) विषय निवडतात. ह्या विषयनिवडीमध्ये विद्यार्थ्यांच्या आवडीपेक्षा प्राध्यापकाच्या पोटापाण्याचा मुद्दाच अधिक प्रभावी ठरतो. (एखाद्या विषयाला विशिष्ट विद्यार्थीसंख्या नसेल तर संबंधित प्राध्यापक अतिरिक्त ठरून नोकरी घोक्यात येण्याची शक्यता असते.)

७) एखाद्या विषयासाठी विद्यार्थ्यांनी प्रवेश घेतला तरी वर्गातील उपस्थितीचे प्रमाण हे विविध कारणांमुळे अतिशय चिंताजनक असल्याचे दिसून येते.

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म राठी भाषा भ्या स क्रम विशेषां क

८) या सर्व अडथळ्यांवर मात करीत जर विद्यार्थी खरोखरच वर्गात नियमित बसू लागला तर अशा विद्यार्थ्यांला आपण असे कोणते जगावेगळे ज्ञानामृत देतो की ज्यामुळे तो उद्याच्या जगात टिकू शकेल? (मराठी विषयातील पदव्युत्तर पदवी उच्च श्रेणीमध्ये मिळवून, सेट व नेट या पात्रता परीक्षा उत्तीर्ण, होऊन, एम.फिल. तसेच पीएच.डी. पदवी धारण/ दे. 'सकाळ'च्या दि. २१ सप्टेंबर २०१४ च्या 'सप्तरंग' पुरवणीतील उत्तम कांबळे यांच्या 'मोठ्या पदव्या, छोट्या नोकऱ्या' या लेखातील याबाबतची उदाहरणे पुरेशी बोलकी आहेत.)

मराठीतून ज्ञान देण्यासाठी अत्यंत गांभीयनि आणि तातडीने मराठीच्या सध्याच्या अभ्यासक्रमाचा चेहरामोहरा बदलणे अतिशय निकडीचे आहे. तातडीने एवढ्याचसाठी, कारण आता सुरुवात केली तर येत्या दोन-पाच वर्षांत त्यावर पुरेसे विचारमंथन होऊन निश्चित, ठोस स्वरूपाचा आराखडा आकाराला यईल. मराठीच्या पदवी व पदव्युत्तर स्तरावरील अभ्यासक्रमाबाबत खालील मुद्दे विचारात घ्यावेत-

१) महाराष्ट्रातील सर्व विद्यापीठांच्या व संलग्न महाविद्यालयांच्या पदवी व पदव्युत्तार स्तरावरील अभ्यासक्रमात एकवाक्यता व एकसमानता आणावी. त्यासाठी महाराष्ट्र विद्यापीठ कायद्यात आवश्यक ती दुरूस्ती करण्यात यावी.

२) परीक्षापद्धतीमध्ये योग्य ते बदल करावेत. वर्षातून एकदा किंवा दोनदा परीक्षांचे कर्मकांड करण्याऐवजी प्रात्यक्षिक ज्ञानावर, शोधनिबंधलेखनावर भर द्यावा. विद्यार्थ्यांकडून प्रकल्प करवून घ्यावेत. अभ्यासक्रमातील मुद्दचावर आधारित अशा केवळ विद्यार्थ्यांच्याच चर्चासत्रांचे आयोजन करावे. ओपन बुक टेस्ट पद्धतीचा वापर करावा. सध्या परीक्षाविषयक कारभाराचा केंद्रबिंदू विद्यापीठ हा आहे. त्याऐवजी महाविद्यालय स्तरावर परीक्षाविषयक आयोजनाचे स्वातंत्र्य द्यावे. मूल्यमापनाची सर्वस्वी जबाबदारी

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संबंधित प्राध्यापकावर सोपवावी.

३) मराठीचा अभ्यासक्रम दर तीन वर्षांनी
 न बदलता दर पाच वर्षांनी बदलावा.

४) इ. १० वी व इ. १२ वीच्या धर्तीनुसार संपूर्ण राज्य स्तरावर एकच एक अभ्यासक्रम निर्मिती मंडळ असावे.

५) पदवी स्तरावर एखाद्या विषयाचा किंवा मराठी विषयाचा विशेष स्तरावर अभ्यास करीत असताना इतर विषयांचे किंवा सक्तीच्या इंग्रजी विषयाचे ओझे नसावे.

६) मराठीच्या पदवी स्तरावरील अभ्यासक्रमासाठी केवळ साहित्यकृतीवर भर न देता संपादित साहित्यावर भर द्यावा किंवा संपादित साहित्याचे प्रमाण वाढवावे. उदा. विशिष्ट लेखकाचा कथासंग्रह, कवितासंग्रह, चरित्र, आत्मचरित्र नेमण्यापेक्षा विशिष्ट विषयावरील, आशयावरील साहित्याचे संपादन करावे. (उदा. शेतकऱ्यांची दुःखे मांडणाऱ्या कविता, सुशिक्षित बेरोजगारांच्या व्यथा मांडणाऱ्या कथा वगैरे.)

७) पदव्युत्तर स्तरावर मात्र विशिष्ट साहित्यकृतींचा, विशिष्ट साहित्यकारांच्या समग्र साहित्याचा अभ्यासक्रम नेमण्यात यावा. तसेच पदव्युत्तर स्तरांवर भारतीय व बिगरभारतीय (पाश्चात्य व पौर्वोत्य) अनुवादित साहित्याचा समावेश करावा.

८) सध्या पदवी स्तरावरील मराठीच्या अभ्यासक्रमांमध्ये आधुनिक साहित्य, प्राचीन साहित्य, आधुनिक मराठी वाङ्मयाचा इतिहास, प्राचीन मराठी वाङ्मयाचा इतिहास, मराठीचा भाषिक अभ्यास आणि व्यावहारिक मराठी या घटकांचा समावेश आहे. यापैकी व्यावहारिक मराठीचा अभ्यासक्रम ५० टक्क्यांपर्यंत वाढवावा. यामध्ये अर्जलेखन, पत्रलेखन, निबंध-लेखन, टिप्पणीलेखन, इतिवृत्तलेखन, सूचनालेखन, माहितीपत्रकलेखन, जाहिरातलेखन, जाहीर निवेदनलेखन, निविदालेखन,

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अद्सरगाथा / जुलै - ऑक्टो २०१४ / पुष्ठ ९१ / मराठी भाषाभ्या सक्रम विशेषां क

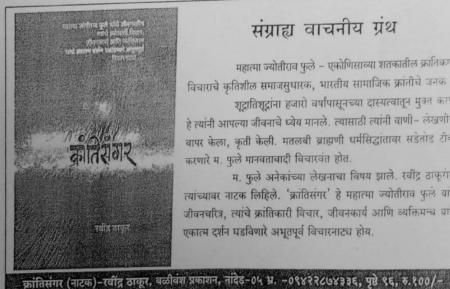
घोषवाक्यलेखन. घोषणापत्रक-लेखन. मुलाखतलेखन, सारांशलेखन, संवादलेखन, म्हणीवरून गोष्टलेखन, मुद्यावरून गोष्टलेखन, कल्पनाविस्तार, एखाद्या चित्राचे वर्णन करणे/ लेखन, मुद्रितशोधन या मुद्यांचा समावेश करावा.

पदवी स्तरापर्यंत विद्यार्थ्यांला कथाकथन, सुत्रसंचालन, वक्तुत्व, वादविवाद वगैरे कौशल्यांचे शिक्षण द्यावे. प्रत्यक्ष मुलाखत घेणे, स्मरणिका संपादन, नियतकालिक संपादन, परिसरातील लोकसाहित्याचे संपादन, टोपणनावाच्या साहित्यिकांचा परिचय, ज्ञानपीठ विजेत्या साहित्यिकांचा परिचय, नोबेल व साहित्य अकादमी पुरस्कार विजेत्या साहित्यिकांचा परिचय, शब्दकोडी तयार करणे; यासारख्या प्रकल्पांचा, प्रात्यक्षिक कार्याचा समावेश करावा. वरील सर्व घटकांची पदवी स्तरावरील तीन वर्षांच्या अभ्यासक्रमात विभागणी करावी.

सध्या महाराष्ट्रातील कोणत्याही विद्यापीठाच्या अभ्यासमंडळे, अधिसभा, व्यवस्थापन परिषद वगैरे अधिकारमंडळावरील सदस्य हे

विद्यापीठावरील वर्चस्व राखण्यात, हितसंबंध जोपासण्यात, व्यग्र आहेत. आपल्या पंगारात वाढ व्हाची, आपला एपीआय सुधाराबा या एकमेव हेतूने आयोजित केल्या जाणाऱ्या राष्ट्रीय, राज्य, बिद्यापीठस्तरीय चर्चा (?) सत्रांना ऊत आला आहे. दरवर्षी केवळ १५ ऑगस्ट व २६ जानेवारी ह्या राष्ट्रीय सणांनाच वेळेवर कॉलेजमध्ये येणारे परंतु आपल्या बाट्याची लेक्चर्स न घेणारे कितीतरी प्राचार्य ह्या महाराष्ट्रात; ह्या देशात आहेत. ह्या परिच्छेदातील विधाने खोटी असती तर आज देशातील कितीतरी विद्यापीठे जगातील नामवंत विद्यापीठांच्या यादीत झळकली असती.

देशाचाच नव्हे तर जगाचा संवेदनशील, सहृदयी, सुजाण नागरिक घडवण्यासाठी साहित्याचा अभ्यासक्रम तितकाच दमदार, कसदार असणे अत्यावश्यक आहे. सुरुवात मराठीच्या अभ्यासक्रमापासून झाले तर किमान महाराष्ट्रान तरी ज्ञानक्रांती होईल, हे नक्की. - प्रा. डॉ. जगदीश आवटे



संग्राह्य वाचनीय ग्रंथ

महात्मा ज्योतीराव फुले - एकोणिसाव्या शतकातील क्रांतिकएक विचाराचे कृतिशील समाजसुधारक, भारतीय सामाजिक क्रांतीचे जनक

शूद्रातिशूद्रांना हजारो वर्षांपासूनच्या दास्यत्वातून मुक्त करणे. हे त्यांनी आपल्या जीवनाचे ध्येय मानले. त्यासाठी त्यांनी वाणी– लेखणीचा वापर केला, कृती केली. मतलबी ब्राह्मणी धर्मसिद्धांतावर सडेतोड टीका करणारे म. फुले मानवतावादी विचारवंत होत.

म. फुले अनेकांच्या लेखनाचा विषय झाले. रवींट्र ठाकुंगनी त्यांच्यावर नाटक लिहिले. 'क्रांतिसंगर' हे महात्मा ज्योतीराव फुल याचे जीवनचरित्र, त्यांचे क्रांतिकारी विचार, जीवनकार्य आणि व्यक्तिमन्व यांच एकात्म दर्शन घडविणारे अभूतपूर्व विचारनाट्य होय.

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Legal Environment in Lottery Business

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<u>ABSTRACT</u>

While the debate about what gambling is legal and what isn't continues among gambling experts, in India courts, and between States and the Central government, one things is for certain – Indians love to gamble. Although a good percentage is wagered legally on horse racing and lottery, a large amount is wagered on cricket and other sports via illegal and "technically illegal" channels. The central Act permits only state-organised lotteries to be run in the country. Many state governments including Maharashtra run lotteries for raking in extra revenue. However, lotteries are banned in some states. There are a number of instances where one state has banned lotteries run by another as they compete with each other for a share in the lottery market.

Key words: Lottery, Legal Gambling, Lottery market, Revenue.

Introduction

Betting in India, whether it be lottery, rummy, poker, horse racing or other forms of sports betting is a controversial subject. The central government of India does have an official stance on gambling, which is that according to laws where the central government has jurisdiction, it finds gambling to be illegal. Gambling is loosely defined as any game of chance, however, the Supreme Court has found that activities like Rummy and Horse Racing are games of skill, and therefore, not considered 'gambling' by the National law. Some also argue that poker and other activities are games of skill; however, an official stance has not yet been determined.

The largest caveat here is that where the activity remains within the borders of a give state. According to Entry No. 34 of List II of the 7th Schedule of the Indian Constitution, The individual States have the full right and legitimate authority to make laws with respect to gambling and betting. Furthermore, entry No. 62 confers authority to the States to tax gambling and betting events or activities. Thirteen states have legalized lottery, while the States of Goa and Sikkim have legalized and regulated other forms of gambling.

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The finance ministry list includes 17 lotteries run in traditional format and 241 online The finance managed and Bhutan's seven traditional lotteries figure in the list. Among the ones. Maharashtra's 168 and Sikkim's 63 lotteries. The government and 141 online ones. Maharashira on and Sikkim's 63 lotteries. The government resolution (GR) online ones and government resolut featuring the list of these lotteries is available on Maharashtra government's website

Objective

To know the Indian legal environment in Lottery Business. To know the Lottery Business in Various States of India.

Research Methology

This study based on secondary data. The data has been collected from various published sources books, journal & websites etc.

Maharashtra State

The State of Maharashtra is moderately friendly to betting. Horse betting and lottery are the only forms of legalized betting within the State. Online Gambling is addressed in the State of Maharashtra with the Bombay Wager Act which specifies that it is illegal within the State; however, the authority of the State to make such declarations with regard to online activity has been questioned. Most laws within the State regarding betting focus on running

It was reported in 2008 that Ladbrokes pushed to become a licensed operate a form of legalized online horse betting within the State, but their efforts fell flat.

Under The Lotteries (Regulation) Act of 1998 that allows only State governments to print or authorize lottery sales, Maharashtra authorizes Playwin to operate within the State. Some smaller cities and districts such as Buldana have tried to run their own lotteries, but the State government has taken legal action against them.

The game of Matka, which is similar to lottery, originated within the State of Maharashtra **Andhra** Pradesh

Under the Andhra Pradesh Gaming Act of 1974, most forms of gambling are illegal within the State. However, horse racing, rummy and state run lottery is allowed within Andhra Pradesh. There does remain quite a bit of illegal gambling activity. If you search the news, you will find the State come up in several cases of arrest and/or fines, but the fines tend to be small and typically only repeat offenders of those who run gambling houses receive more serious punishment.

Goa

Goa and Sikkim are well known gambling destinations within India. Goa in particular allows land based casinos and casino boats to operate off its shores which have many table games not allowed on the mainland. There are 7 land based casinos and several casino boats in Goa as of October 2011. Gambling within the region is governed largely under the Goa, Daman and Diu Public Gambling Act of 1976 which states:

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26[13A. Authorised Game.- (1) Notwithstanding anything contained in this Act, the Government may authorised any game of electronic amusement/slot machines in Five Star Hotels 27{and such table games and gaming on board in vessels offshore as may be notified] subject to such conditions, including payment of such recurring and non-recurring fees, as may be prescribed.

Karnataka

Karnataka used to allow Playwin to operate within the State, but like most States it maintained a ban on single digit lotteries as well as lotteries that draw more than once a week. However, Playwin is no longer allowed to operate within the State.

The State of Karnataka was involved in the landmark case MJ Shivani v. State of Karnataka (1995) where the Supreme Court found that Rummy was not gambling, but a game of skill.

The government of Karnataka has recently become unfriendly to gambling in general, trying to ban or severely limit lotteries, horse racing and other betting activities as early as 2007.

Horse racing was legalized in the 1970's in Karnataka and its popularity rose quite rapidly since. Even though recent efforts to limit and even get rid of horse race betting in the State have been pursued, the activity remains legal within Karnataka.

Sikkim

Sikkim is the first state to attempt to legalize and license online gambling. It began accepting applications to license online gambling. One stipulation is that the servers reside within the State of Sikkim. The license would include many forms of betting, including betting on cricket, football, rugby, etc.

Playwin is the most popular lottery game in India which is run by the government of Sikkim.

Tamil Nadu

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Gambling has long been a part of the local culture within Tamil Nadu, where cock fighting is a famous pastime. The event usually consists of 3, 20 minute rounds where male chickens (cocks) fight. It is a brutal sport which is very much illegal according to local law. Laws that address the sport are related to both gambling but also animal cruelty.

Other games which are very popular within Tamil Nadu are Rummy and Teen Patti, both of which are very traditional games of India.

Tamil was in the news over its regulation of prize schemes prohibiting companies from giving away prizes as a promotion for the sale of their product. Pepsi Co. was prohibited from operating a recent promotion within Tamil Nadu under the Tamil Nadu Prize Schme Act (1979).

Tamil Nadu also hosts two race tracks, Madras Racecourse (Guindy Racecourse) and Ooty Racecourse.

Madras is the oldest racecourse in India, built in 1777. It has an interesting history with some turbulence during the first 100 years. The club was restored in 1887 and has seen racing

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events throughout the 20th century till present day. Race season at Madras is between the Waior event: Hyderabad Race Club Cup.

vember and March. Major event. Hy second the most beautiful in India. It is a highland track at an The Ooty Racecourse is said to be the most beautiful in India. It is a highland track at an The Ooty Racecourse is said to be and a level. The Main event at Ooty is known as The Nilgini

Uttar Pradesh

tar Pradesn Uttar Pradesh has the largest population among all Indian States. Cricket betting is known to be quite popular even though it is not legal. Illegal betting rings are quite common in Uttar Pradesh. Many argue that legalizing gambling would be the best way to deal with the issue. The government of Uttar Pradesh has expressed some interest in brining legalized casinos to the State. One proposal back in 2005 was to open a Casino near the TajMahal, but nothing has come of it as of now.

West Bengal

Gambling is not legal in West Bengal, however, like many States within India, it remains quite popular. Cricket and Football are the primary betting interests in West Bengal.

Conclusion

The Constitution of India explicitly gives states the right to legislate and make policies related to "gambling and betting". It is quite clear in the Seventh Schedule Entry 34 List II that states could legalize gambling should they choose to do so. As stated before, thirteen states have created laws and regulations allowing lottery within their States, including Goa and Maharashtra. Playwin is the primary provider of lottery services authorized by individual States. Players are allowed to make bets at physical locations within Goa and Maharashtra. Many players also play within India at the Playwin website. The legality of which is subject to the laws of the state with which you reside.

Reference

- 1. Lottery NasibaPalikade- P. H. Jain
- 2. finmin.nic.in
- 3. www.lottery.maharashtra.gov.in
- 4. www.goastatelotteries.gov.in
- 5. www.sikkimlotteries.com
- 6. www.finance.maharashtra.gov.in
- 7. en.wikipedia.org/wiki/Lottery
- 8. www.apfinance.gov.in
- 9. www.tn.gov.in/department/9
- 10. finance.kerala.gov.in
- 11. www.wbfin.nic.in/
- 12. finance.up.nic.in
- 13. www.finance.kar.nic.in

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"Commerce and Management in 21st Century"

Lottery Business – A Case Study of Maharashatra State Lottery

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ABSTRACT:

A lottery is a form of gambling which involves the drawing of lots for a prize. Lotteries outlawed by some a are outlawed by some governments, while others endorse it to the extent of organizing a national or state low national or state lottery. It is common to find some degree of regulation of rupees and governments. The lotter governments. The lottery business is a promising one, involving billions of rupees and employing countless and in the lottery business is a promising one, involving billions of rupees and that take place in India, all of employing countless people. There are many lottery games that take place in India, all of which are run by state which are run by state government organisations under the rules and regulations of the federal government. State and Sikkim, run government. State government organisations under the rules and regulations of the state governments such as those of Maharashtra, Punjab, Goa and Sikkim, run their own lottery down their own lottery departments and conduct lucky draws daily or weekly. The Maharashtra State run lottery is to the State run lottery is totally trustworthy and provides an opportunity to the citizens to win a large prize amount of large prize amount from a very small investment and fulfill their dreams. The revenue generated from the lottery sales also helps the State to improve the infrastructure, provide health and odward health and education facilities, enhance the status of women and child welfare, for agriculture sector etc.

Key words: Lottery Business, Revenue generation, Infrastructure Development.

Introduction

Lottery Trade in India is legislated under Lotteries Act, 1998. Only Federal and State Governments are authorized to operate Lottery Business and usually operated through its private agencies under the sole distributor arrangement. Instant Lotteries are prohibited by Legislation. Though the estimates of the total lottery market size in India vary quite widely, the current market size of the Indian lottery market is estimated at around Rs. 50,000 Crores. Some States have banned the sale of lottery tickets in their respective states. The Supreme Court of India has observed that a State Government cannot ban lotteries organized by other State Governments if it operates its own lotteries. The lotteries in India are not permitted to have more than one draw in a week. Further, the number of bumper draws of a lottery is required to be not more than six in a calendar year.

Currently, the lottery market in India is dominated by passive ticket lottery market, although eight online lottery companies are currently operative in India. Kerala State Lotteries, established in 1967, under the lottery department by the Government of Kerala was the first of its kind in India. The Lottery department was successful and has grown throughout the state of Kerala by contributing to the needful and became the role model for other states for starting their own lotteries.

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The lottery business is a promising one, involving billions of rupees and employing countless people. Though individual opinions regarding lottery is biased, a study states that most of the people acceptable it. Lottery is a form of gambling where payment has to be made for entry into the game. The games themselves are of various types such as tombola . The simplest games make use of the scratch card that contains a set of characters. In every game, the only deciding factor is luck.

Globally, lotteries are seen as an effective way of raising money for charity and other benefaction schemes. Some forms of lottery or the other is practiced in every region of the globe. Lotteries allow funding of various social projects. The Govt. education receives the benefit of the lottery scheme.

The future prospects of the industry look bright, with the business promising an almost assured return. However, problems persist that needs adequate correction mechanisms.

- Illegal status: In many regions around the world lotteries are not in the realm of law. In India, the illegal lottery business is set at INR 7200 crores, a whopping \$1.3 billion. Worldwide, the amount may run into exorbitant figures. Regulatory mechanisms require stricter stance, but the problem is not restricted to lottery alone.
- **Problem gambling**: This is a challenge even in the states where gambling is well regulated. The risk of addiction to gambling activities threatens to stall regulation approaches in other states. A mechanism needs to be put in place where early identification and adequate mitigation are provided. The problem is magnified when we throw into the basket the picture of underage gambling. As many as 66% of gamblers accept placing the first bets while still being at school.
- Ensuring fairness of the game: The simplest game is a lottery that involves a scratch ticket. For such games to sustain, it is essential to ensure that the drawing of lots is non influential.

Objectives:

- 1. To study the overall online lottery business in India
- 2. To study the lottery business in Maharashtra state.

Research Methodology:

This study based on secondary data. The data has been collected from various published sources books, journal & websites etc.

Legal Gambling in India

Betting on games of chance is legal only in two places in India—Sikkim and Goa. While Sikkim has one casino called the Sikkim Casino in Royal Plaza Hotel, Goa has seven brickand-mortar casinos and five cruise ship casinos offering a wide range of slots and table games.

Betting on the online lottery, known as Playwin, is also legalized and regulated in India. The only other form of betting that is heavily regulated in India is the horse betting industry.

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All this simply illustrates that gambling in India has a long way to go. Although the government of Sikkim attempted to issue licenses to online gambling companies in Sikkim, it did not work out, as a result of which so that the second did not work out, as a result of which gamblers in India do not have any Indian online betting site with its servers and offices based site with its servers and offices based on Indian soil. However, some offshore online casinos service the Indian market. service the Indian market.

Indian Online Lottery

Betting on the online lottery is considered illegal in several Indian states while it is feetly legal in some states. This is legalize or perfectly legal in some states. This is because states have the power to either legalize or criminalize online betting activity criminalize online betting activities within their jurisdiction. Fortunately for Indian bettors, online lottery is perfectly local in an intervention on the states of the online lottery is perfectly legal in Sikkim, which operates playwin.com, an online lottery game that enjoys a great deal of popularity in all Indian states that permit online betting.

Indian players who want to bet on this lottery must be more than 18 years of age and uld reside in Siletim Mal should reside in Sikkim, Maharashtra, Arunachal Pradesh, Goa, and West Bengal.

Legal Online Lottery India

Although India is not exactly a gambling friendly country, the people of India are fond of gambling and lottery is defined as being a legal activity. In fact, around half the bets placed in India on a wide range of games of chance and sporting activities are believed to be illegal, but are not. Many prominent citizens of India are in favor of further legalizing and regulating the gambling industry in India.

Maharashtra State Lottery

Maharashtra State Lottery has been in existence from 12th April 1969. The Finance Department of the State initiated the lottery to prevent cheating of the common people by miscreants through illegal gambling schemes like Matka. The State run lottery is totally trustworthy and provides an opportunity to the citizens to win a large prize amount from a very small investment and fulfill their dreams. The revenue generated from the lottery sales also helps the State to improve the infrastructure, provide health and education facilities, enhance the status of women and child welfare, for agriculture sector etc. Simultaneously many unemployed persons are engaged in sale of lottery tickets and provide them with full time or part time employment.

Alarmed over proliferation of illegal lotteries in the Maharashtra, the state finance ministry has issued a list of 258 legal lotteries, whose results will be declared time to time. It has decided to regularly issue of list of official lotteries. Due to sale of illegal lotteries government is not only losing revenue but the credibility of the lottery department is also at stake.

The official lotteries are registered with deputy commissioner (lottery tax) and have paid tax to the government. The ministry has warned strict action against promoters and distributors of illegal lotteries under Sections 14 (1), 17 and 18 of Maharashtra Tax on

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Lotteries Act, 2006. A case would also be registered under central government's Lotteries Regulations Act, 1998.

The central Act permits only state-organised lotteries to be run in the country. Many state vernments including Maharester governments including Maharashtra run lotteries for raking in extra revenue. However, lotteries are banned in some state lotteries are banned in some states. There are a number of instances where one state has banned lotteries run by another banned lotteries run by another as they compete with each other for a share in the lottery market.

The finance ministry list includes 17 lotteries run in traditional format and 241 online s. Maharashtra's ten and Di ones. Maharashtra's ten and Bhutan's seven traditional lotteries figure in the list. Among the online ones are Goo's 169 and 50 online ones are Goa's 168 and Sikkim's 63 lotteries. The government resolution (GR) featuring the list of these last featuring the list of these lotteries is available on Maharashtra government's website.

Achievements so far

Maharashtra State Lottery has produced many happy winners and more than 2327 persons have become Lakhpatis in last 5 years.

The prize money has helped them to invest in their business or agriculture activities, buy a vehicle or a tractor or to purchase house or for the education of their children. Each draw is conducted publicly before a panel of Judges. The draw is done either by an electric machine or by selecting numbers from drums. The draws are completely transparent and trustworthy. In the transition of 42 years, Maharashtra State Lottery proved its motto 'Reputed and Trustworthy'.

Weekly Lottery Schedule

Maharashtra government conducts a draw on all the week days except on Sunday and the three national holidays. From the month of October there shall be total 10 draws every week. This includes 6 weekly draws and 4 Mini Lottery.

List of Maharashtra Rajya Lottery

The results of Lottery tickets declare after few days or at the end of the week for weekly lotto or monthly basis lottery. Akshaya Weekly

Akshaya (Weekly) Pushkaraj (Weekly) Sagarlaxmi (Weekly) Dassera Bumper Lottery Maharashtralaxmi (Weekly) Vaibhavlaxmi (Weekly) Maharashtra Bhushan Aakarshak Pushkaraj (Monthly) Akshaya (Weekly)

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Conclusion

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The future of the lottery business can be expected to be driven by the regions where it has been regulated yet. The Mahamutan been regulated yet. not been regulated yet. The Maharashtra illegal gambling industry amounts to over a billion rupees. Bringing these institution rupees. Bringing these institutions under the jurisdictions of the state can provide a much needed boost to the respective state exchequers.

References-

- 1. Lottery Nasiba Palikade- P. H. Jain
- 2. www.lottery.maharashtra.gov.in
- 3. www.goastatelotteries.gov.in
- 4. www.sikkimlotteries.com
- 5. www.finance.maharashtra.gov.in
- 6. en.wikipedia.org/wiki/Lottery
- 7. www.lotterymexico.com
- 8. www. finmin.nic.in

in the UGC Sponsored National Conference on BUSINESS ENTREPRENEURSHIP : ISSUES AND CHALLENGES on 30th & 31st January 2015 organized by the Faculty of Commerce, Jaysingpur has participated as a College, Jaysingpur. He / She has presented a paper entitled, Еңтергеценгіа (ицейніоц Dr. M. M. Gandhi Business Entrepreneurship : Issues And Challenges Principal torow JAYSINGPUR COLLEGE, JAYSINGPUR TWO DAY NATIONAL CONFERENCE Lertificate 30th & 31st January 2015 This is to certify that Dr. / Prof. / Mr. / Mrs./Miks. Ashok V. Giri Dr. N. L. Kadam Anekant Education Society's, MES Garware College of Commerce, Purle. Tal. Shirol, Dist. Kolhapur **JGC SPONSORED** Coordinator NO in Globalizing World. **Organising Secretrary** Dr. P. T. Mane 2 have <u>ଅନେକୁ ଜନନାର ଜନ୍ମ ଅନ୍ତି ହେଇଥିବା ହେଇଥିବା ହେଇ</u> delegate 50 years of dedicated service

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Entrepreneurial Innovation in Globalizing World

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Abstract

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No entrepreneur or enterprise, however successful and big, can continue to hold a place of leadership unless it recognizes that modern business operates in a world of galloping change which creates new problems, risk and opportunities and for which they have to mobilize the enterprise's resources before changes make their impact felt. To do successfully, the entrepreneur and enterprise should know where this firm is going and how the firm will get there. This is turn requires a clear definition of the company's business which will enable it to continually adopt operations to the realities of the market place, the very corner stone of survival and growth" Innovation is defined as adding something new to an existing product or process. The key words are adding and existing. The product or process has already been created from scratch and has worked reasonably well. When it is changed so that it works better or fulfils a different need, then there is innovation on what already exists. Innovation is the successful exploitation of new ideas.

According to Deucker F. Peter Entrepreneurship is neither a science nor an act. It is a practice. But as in all practices. Medicine or engineering for instance knowledge in entrepreneurship is a means to an end. It is not a 'Flash of genius' but purposeful tasks that can be organized in to systematic work.Entrepreneurs are the real heroes of economic life. They are the ones who have shown that genius is sweat and toil and sacrifice and that natural resource gain value only by the ingenuity and labour of man for their knowledge of failure, they forge success. In accepting risk, they achieve security for all. In embracing change, they ensure social and economic stability Etymologically, the term entrepreneur has been drived from the French word Entreprendre' which connotes "Undertaker".

Keywords: entreprenuer, globalization, entrepreneurship development, multidimensional aspects, industrilization.

Introduction

According to Francis. A. Walker, the true entrepreneur is one who is endowed with more than average capacities in the task of organizing and co-organizing the various other factors of production. He should be a pioneer, captain of Industry. The supply of such entrepreneurship is however quite limited and enterprise in general consists of several grades of organizational skill and capability. The more efficient entrepreneur receives a surplus reward over and above the managerial wages and this sum constitutes trade profit ascribed to superior talent.

The above definitions specified by different thinkers stress only selected aspects of entrepreneurship. In modern times an attempt is made generate a comprehensive definition that tries to high light all facts and aspects of entrepreneurial activity. These multidimensional aspects may be stated as follows.

Higgins stated that Entrepreneurship is meant the function of seeing investment and production opportunities, organizing an enterprise to undertake to new production process, raising capital, hiring labour, arranging for a supply of raw materials and finding site and combining these factors of production into going concern, introducing new techniques and commodities discovering new sources of natural resources and selecting top managers for day today operation of the enterprise.

An entrepreneur is a person who adds value to a particular niche or market sector by providing innovative products or services that are in demand. Innovation entrepreneurship can be defined as the effective combination of labour, capital and property utilized to create innovative products in keeping with the changing demands of the market. A good entrepreneur accepts all responsibilities and accountability pertaining to his/her venture's performance and risks. A dynamic entrepreneur gets into top gear the moment he/she identifies demand for a particular product or service in the market. They get all resources together and invest time, creativity and enterprise to innovate and achieve their goal. In the process, they may take quite a bit of financial, personal and professional risk. Innovative entrepreneurship requires entrepreneurs to

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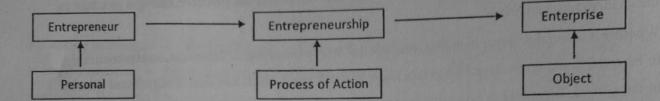
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be equipped with various qualities such as capacity to build an effective team, strong leadership, management ability and a strong drive and leaning towards innovation and creativity. In order to ensure success of any venture, it is important to see that innovation and entrepreneurship complement each other in the most effective manner. A dynamic framework of integrative interaction must be put firmly in place which can fuel competent and positive changes to adapt to the changing societal needs.

Whether it is social entrepreneurship, educational entrepreneurship or business entrepreneurship, to be creative and innovative brings in a lease of fresh input which can fuel a significant change in the system. The world is constantly changing, so are the needs and requirements of people. It is the responsibility of every business, organization and individual to keep pace with the societal demands and needs and provide dynamic solutions. The importance of innovative entrepreneurship is recognized by many companies today. Not only new ventures but also existing corporate invests time and money training their employees and management in particular on effectively utilizing the power of dynamic innovation. This is in fact, one of the most important pre-requisites for sustained survival of companies in today's competitive business environment. Innovation entrepreneurship requires entrepreneurs to be strong and creative. Good entrepreneurs will not think twice about taking calculated risks and they are trained to see every situation from a different perspective. They are non conformists who do not depend on any pre determined organizational structure. They believe in breaking traditional rules and constantly bringing in innovative thinking into practice. They focus on initiating value added products, system or ideas much beyond the traditional idea of adapting to changes that are linear. Innovative entrepreneurship is also about being skilled at identifying problem areas and provides immediate solutions to remove any hindrance towards fruition of their vision. Dynamic entrepreneurs also believe in investing money and effort in a potent R&D stream. They keep their customers interested, guessing and curious with a constant release of improved and new

Innovation and entrepreneurship therefore cannot be viewed separately in the context of any business, whether small, medium or large. A strong and sustained presence amidst stiff global competition is possible only through development focused innovation.

Entrepreneurship refers to a process of action an entrepreneur undertakes to establish the enterprise.



The entrepreneurs, in the modern sense, are the self starters and doers of a business, who have organized and built their own enterprise or enterprises. In common parlance, almost anyone who starts an enterprise, industry, and shop is called an entrepreneur.

Characteristics of an entrepreneur

- A successful exhibits certain typical qualities. Some of these are given below: An entrepreneur is a risk taker. In fact, several experts have contributed entire profits to risk taking. For e.g., according to Howtey, profits are rewards for risk taking which is what an entrepreneur does.
- 2. An entrepreneur is a highly motivated person. He does not sit complaining about banks, government officials, bribes, difficulties, etc. he is a committed person determined to achieve success in his business.
- 3. An entrepreneur is an efficient organizer, effective coordinator and a successful manger. He brings together all factors of production, combines them and co-ordinates them for production and business.
- 4. An entrepreneur is a risk taker. In fact, several experts have contributed entire profits to risk taking. For e.g., according to Howtey, profits are rewards for risk taking which is what an entrepreneur does.
- 5. An entrepreneur is an ambitious person. Great entrepreneurs like Tata, Birla, Ford, Rockfeller were ambitious to build business empire. It does not mean that they were unscrupulous and were obsessed with a greed for money. It only shows that they envision what they propose to achieve and go on to achieve it with full force.

6. An entrepreneur is a discoverer, inventor and innovator. Entrepreneurs are dynamic and original. According to Schumpeter, an entrepreneur is constantly discovering new projects, new markets, new uses for his products, new sources of raw material and new organizations of production. An entrepreneur goes out of the beaten part and charts new course.

Globalization refers to the multiplicity of linkages and interconnections between the states and societies, which make up the present world system. It describes the process by which events decisions and activities in one part of the world can have significant consequences for individuals and communities in quite distant part of the global. The phenomenon of globalization is simply characterized as a worldwide economy, the process of technological revolution, freedom of capital movements and relocation.

From the social and macroeconomic prospective it is held that the economic development of any action is a direct function of the number of high quality innovators and entrepreneurs it supplies. This intern is dependent upon the desire for new and better products that society demand and accepts.

Following liberalization and global competition, wealth creation is assuming paramount importance. As a result the concept of entrepreneurship is receiving closed attention.

Economic Development and the role of Entrepreneurship

21^a century is the century of Entrepreneurship and every individual can be an agent for innovation and change, various examples in the present day times indicate where a country has growth in spite of scarcity of inputs i.e. Japan.

Realizing the effective role of entrepreneurship in the process of industrialization India made planned efforts to develop entrepreneurship Indian Govt. wanted to develop achieve balanced regional development, dispersal of economic power and provide better employment opportunities.

Industrial development of any economy is utmost essential as it accelerates the rate of Economic growth; it creates a larger and more favourable market for agriculture and industrial products and tends to break up the relatively stagnant and traditional type of agriculture. It also makes available to the masses a far range of consumer and industrial goods.

The need of industrialization also lies in the fact that at all levels of production process, other than the final demand level, industrial investment have more forward and backward linkages with various industries.

Gunnar Myrdal, while describing the relationship of industrialization and economic development, writes that the manufacturing industries represent, in a sense, a higher stage of production in advanced countries. The development of Mfg. industry has been concomitant in these countries with spectacular economic progress and rise in the level of living; not least in the under-developed countries, the productivity in industry tends to be considerably greater than in traditional agricultural pursuits. Economic development through industrialization is sought, therefore, "not only as a means of bringing about a shift in power within the under developed nations".

Growth of Entrepreneurship in India

A sound understanding of the entrepreneurship development in India must evolve itself within the context to the economic development of India. The India society is divided into religious and regional sections. Therefore caste groups were rigidly separated from each other on functional basis, a feature which perpetuated the practice of following the family occupation leaving little scope for mobility between one occupation and another. There was a clearly divided workforce based mainly upon castes.

The beginning of the modern factory in Indian can be traced to the second half of the 19th century. Before 1850 there were some story attempts of setting up factories in India. These were the pioneering efforts, mostly by the Europeans and they got success because of political privileges and control over organized money market.

By the middle of the 19th century India had a fairly developed business community i.e. Hindu Jain Muslim and Vaishyas. In Oct. 1905, the Swadeshi Company was launched and this movement definitely had a positive contribution to make in including Indian investment in Industrial activities. During the First World War many industries established i.e. Steel, Paper etc. After the independence, the Govt. of India supported industrialization to providing financial and infrastructure support system to industrial revolution started. Special community like cheltis Kumatis, Syrian Christian, Hindu, Jain, Marwari and Muslim community developed their own.

Process/stages of entrepreneurship development

The promotion of entrepreneurship in a society can be set to follow a three-phase or stage process. These are the stimulatory phase, the support phase and the sustaining phase. In the last and sustaining phase entrepreneurs are helped in overcoming 'teething problems' in their business and are helped in carrying forward the growth of their business. In this phase support is provided for full capacity utilization, expansion, diversification, modernization and full development of the potential business. In this phase, support is also given to sick industries and those facing difficulties in expanding. In this phase, facilities like quality testing, quality promotion, industrial assets, etc. are also provided to the entrepreneurs.

In the stimulatory phase, on the one side infrastructural facilities, database and publicity for the promotion of entrepreneurship is undertaken, while on the other active steps are taken to stimulate the development of an entrepreneurial class in society. These include locating, selecting and motivating potential entrepreneurs; creating an awareness in them and arousing their interest in entrepreneurship by 'achievement motivation training'; giving them knowledge about business and its various management aspects; and finally helping potential entrepreneurs to prepare viable projects. In the second 'support phase', the entrepreneurs are provided with practical guidance and support for the establishment of the business provision of finance, purchase of raw material, plant and machinery, procurement of land and setting up of a factory and other related matters. Simultaneously, they are also supported with facilities like tax relief, subsidy support and similar facilities.

It should be borne in mind that adequate emphasis must be placed on all these phases for the harmonious development of entrepreneurship in the country. It should also be noted that these stages are not water-tight compartments and there should be an harmonious mix of all these activities.

Factors of entrepreneurship development

The emergence, growth and development of entrepreneurship depend upon a number of micro and micro level factors.

At the macro level, the creation of an entrepreneurial class depends upon the creation of an environment that fosters private initiative, business innovation and free enterprise. Such an environment can be treated by ensuring an appropriate economic, industrial fiscal, monetary, foreign trade and foreign exchange policies. The present economic policy of market-friendly

approach; fiscal policy of low deposits, taxes and tariffs; industrial policy of delicensing; more reliance on private sector and encouragement of foreign collaboration; monetary policy of lowering and freeing of inter states and ensuring adequate availability of credit and finance; foreign trade policy of liberalization and globalization with the integration of domestic economy into the world of economy; and exchange policy of convertibility of rupee and liberal exchange state mechanism – all these are bound to stimulating the growth of an entrepreneurship in India.

Impact of Globalization on Trade, Commerce and industries: - Challenges and Opportunities

Globalization offers opportunities on the one side and challenges on the other side. It has offered opportunities in the area of investment, industrial growth, technology and competition and on the other hand it has created threats in the area of small scale industries, traditional industries and competition.

Globalization and investment: Our economy is interacting with the rest of the world with the grow of globalization and economic liberalization i.e. The opening of the capital markets offers opportunities for us to increase our investment beyond the rate of domestic saving. India should take full advantage of these opportunities of an increasingly globalized Economy. In India from 1992 to 2005 Rs. 3, 25,000 crores are invested in the Form of Foreign direct investment.

Direct Foreign Investment may be made through the acquisition of an existing entity or the establishment of a new enterprise.

Mergers and Acquisitions (M and A) M and A are very important market entry as well as growth strategy. It may be used to acquire new technology. It may also help in reducing coast and reducing competition. One great advantage of M and A is that it provides instant access to markets and distribution net work.

Globalization and industrial growth

Globalization creates opportunities if it is genuinely free, and India's labour intensive product can find markets abroad that will help to get new jobs in our country. Globalization has created more employment, boosted industrial production and promoted exports. The information technology is one of the areas of industrial growth. The IT industry's basic input is skilled man power and India has the largest pool of skilled and semi skilled works force that will help to relieve poverty also.

Conclusion

Opportunities for global entrepreneur have been increasing day by day under the changing environment. Whether an entrepreneur is currently a global entrepreneur or dream of becoming one embracing the Authemtic Entrepreneur traits has many advantages. He should remove the traditional entrepreneurial stigmas and allow himself more room for growth. So if the entrepreneur is ready to step forward and declare that he/she desire to live a meaningful and wealthy life, then it is time to make himself move. The entrepreneur has to shift the perspective and become an Authentic global entrepreneur. The making of such authentic global entrepreneur would reward the individuals themselves, the firms the industry the economy and the society as a whole.

Fortunately even in India, we now have many role models who have created business empires that only compete but also operate globally. There is famous saying. "Any one can count the seed in an apple, but only God can count the number of apples in a seed". The seed of entrepreneurship is already placed in India. Only God knows, how many more uncountable herosand entrepreneurs will emerge in the future scenario. Though one things is clear they are going to be much more than what we see today.

Fortunately there are numerous right paths for entrepreneur to create wealth. Provided these paths are journised well.

References

- 1. Peter Drucker, "Innovation and Entrepreneurship", 1985, Elsevier Ltd., UK, pp 69-75.
- John Bessant, Joe Tidd, "Innovation and Entrepreneurship", 2011, John Wiley & Sons Ltd., pp 15-23.
- 3. Adam Szirmai, Wim Naudé, Micheline Goedhuys, "Entrepreneurship, Innovation, and Economic Development", Oxford Press, 2011, pp 147-155.
- 4. Kjell Skogen, Jarle Sjovoll, "Creativity and Innovation", 2010, AIT, pp 210-215.

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- Michael J. C. Martin, "Managing Innovation and Entrepreneurship", John Wiley & Sons Ltd., pp 67-73.
- 6. Lans, T., Hulsink, W., Baert, H. & Mulder, M. (2008). Entrepreneurship education and training in a small business context: Insights from the competence-based approach. Journal of Enterprising Culture, 16 (4), 363-383.

- 7. Majumdar, S. (2008). Modelling growth strategy in small entrepreneurial business organizations. The Journal of Entrepreneurship, 17 (2), 157-168.
- 8. Shane, S. (2003). A general theory of entrepreneurship: The individual-opportunity nexus.

17

9. Lans, T., Hulsink, W., Baert, H. & Mulder, M. (2008). Entrepreneurship education and training in a small business context: Insights from the competence-based approach. Journal of Enterprising Culture, 16 (4), 363-383.

24 Snehavardhan Research Institute, Aspects of Folk-Culture in Literature Dr. Snehal Tawre at National and International Level International Interdicipilnary Conference वर्णावट्यातील लाकसंस्कृत REFERENCES 2012 andress annight andress annight the डा. स्नहत्व नाव Pune, India. Director, has X Snehavardhan Research Institute Pune, India 25th & 26th November 2015 at Bangkok, Thailand. Participated and Presented the Research Paper on in International Interdisciplinary Conference on Aspects of Folk-Culture in Literature देशविदेशातील लोकसंस्कृतीचे साहित्यातील दर्शन at National and International Level Arya Samaj, Bangkok, Thailand has jointly organised International 'बहभाषिक जैन साहित्याचे पैलु' डॉ. जगदीश आवटे Interdisciplinary Conference on Certificate This is to certify that the Contraction Arya Samaj, Bangkok, Mr. S. P. Singh President, Thailand. 310

बहुभाषिक जैन साहित्याचे पैलू

(मध्ययुगीन कालखंडासंदर्भात)

- डॉ. जगदीश आवटे

कोट्यवधी वर्षांपूर्वी अवकाशात सातत्याने विविध घडामोडी घडत होत्या. या घडामोर्डीतून पृथ्वीची निर्मिती झाली. लाखो वर्षांपूर्वी आपल्या पृथ्वीवर अत्यंत सूक्ष्म अशा सजीवाचा जन्म झाला. या सजीवाचा जन्म होण्यासाठीसुद्धा विशिष्ट प्रकारच्या घडामोडीच कारण ठरल्या. पृथ्वीवर अस्तित्वात आलेल्या या पहिल्या सजीवापासूनच आजची, सध्याची सर्व सजीवसृष्टी उत्क्रांत झाली असल्याचे वैज्ञानिक सत्य साऱ्या जगाने स्वीकारले आले. आजचा मानवसमाज हे पृथ्वीवरील सजीवसृष्टीतील सर्वांत सुंदर, अधिक परिपूर्ण असे अपत्य आहे. मात्र ह्या अपत्याची जडणघडण होण्यासाठी कित्येक वर्षे खर्ची पडली. अगदी सुरुवातीला गुहेत राहणारा मानवप्राणी सुरक्षिततेच्या गरजेपोटी टोळ्यांटोळ्यांनी राहू लागला. अत्र पाण्याच्या गरजेपोटी त्याने नदीकिनारी, पाण्याच्या ठिकाणी वस्ती केली. काळाच्या ओघात त्याला अग्नीचा शोध लागला. अग्नीमुळे त्याला अन्न शिजवून खाणे शक्य झाले. आपले श्रम हलके करण्यासाठी मानवाने चाकाचा शोध लावला. शेतातून धान्य पिकवण्याचे तंत्र गवसल्यामुळे मानवाचे जीवन आणखी सुखी झाले. काहीशी उसंत मिळू लागलेल्या या मानवी समाजाला, आपल्या सामूहिक जीवनाला काही एक शिस्त असावी, असे वाटू लागले. ही शिस्त लावण्याच्या गरजेपोटी मानवी समाजाने विविध संस्थांची निर्मिती केली. विवाहसंस्था, कुटुंबसंस्था, राज्यसंस्था, धर्मसंस्था ह्या त्या प्रमुख संस्था आहेत.

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धर्म किंवा धर्मसंस्था म्हणजे तरी काय ? तर वैयक्तिक व सामूहिक जगण्याविषयीचे नीतिनियम. सध्याच्या जगात ख़िश्चन, मुस्लिम, हिंदू, बौद्ध, जैन, शीख, ज्यू, बहाई, पारशी या धर्मांचे लोक राहतात. या धर्माच्या संस्थापकांनी अखिल मानवजातीच्या सुखी व समाधानी जीवनासाठी काही नीतिनियम ठरवले. नंतरच्या काळात त्या त्या धर्मातील अनुयायांनी कालानुरुप आणखी काही नीतितत्त्वांची भर टाकली. पुढे काळाच्या, परिस्थितीच्या गरजेनुसार ही नीतितत्त्वे लेखनबद्ध झाली. ह्या नीतिनियमांना, नीतितत्त्वांना ग्रंथरुप लाभले. ग्रंथरुपातील ह्या नीतिनियमांना वाट पुसत पुसतच पुढील काळात विविधांगी स्वरुपाची साहित्यनिर्मिती होऊ लागली. जगातील सर्वच साहित्य वर उल्लेख केलेल्या विविध धर्मांच्या, धर्मतत्त्वांच्या प्रेरणेतून अस्तित्वात आल्याचे दिसते. जैन धर्माचे साहित्यसुद्धा याला अपवाद नाही.

जैन धर्म हा भारतीय भूमीत उदयाला आलेला प्राचीन धर्म आहे. जैन मतानुसार जैन धर्मांमध्ये चोवीस मार्गदर्शक म्हणजेच तीर्थंकर होऊन गेले. ऋषभनाथ हे पहिले तीर्थंकर मानले जातात. सुमारे अडीच हजार वर्षांपूर्वी ऋषभनाथांपासून जैन धर्माचा प्रारंभ झाला, असे मानले जाते. त्यांनतर बावीस तीर्थंकर झाले. भगवान महावीर हे चोविसावे तीर्थंकर. भगवान महावीरांचा जन्म ख़िस्तपूर्व ५९९ साली १३ मार्च रोजी म्हणजेच चैत्र शुद्ध त्रयोदशी रोजी झाला', असे मानले जाते. भगवान महावीरांनी जैन धर्माला नवी चेतना दिली, नवी प्रेरणा दिली. भगवान महावीरांनी जैन धर्माला खळाळते, सळसळते रुप प्राप्त करुन दिले. अगोदरच्या तेवीस तीर्थंकरांनी ठरवून दिलेल्या नीतिनियमांना ग्रंथरुप प्राप्त करुन दिले. भगवान महावीरांच्या अनुयायांनी पूर्वसूरींच्या ज्ञानाला ग्रंथरुप दिले. या ग्रंथरुपालाच आगम साहित्य असे म्हटले जाते.

जैन आगम साहित्य हे जैन संस्कृती आणि इतिहास यांचा आधारस्तंभ आहे. या साहित्यात जैन मुनींचे आचार, विचार, भिक्षाग्रहण, व्रत, नियम, सिद्धांत, परमतखंडन, स्वमतप्रतिपादन इ. विषयांचे विवेचन केले आहे. प्रसंगानुरुप त्यासाठी कथा, चरित्र, उपमा, रुपक, दृष्टांत यांचाही वापर केला आहे. जैन आगम साहित्य हे जैन धर्मरुपी वृक्षाचे मूळ आहे. या आगमज्ञानाशिवाय जैन धर्मांचे सांगोपांग ज्ञान होऊ शकणार नाही, आणि म्हणूनच आगम साहित्याला जैन साहित्यामध्ये महत्त्वाचे आणि मानाचे स्थान आहे.

जैन धर्माची दृष्टी विश्वव्यापी व अनेकान्तात्मक आहे. या धर्माने निर्माण केलेले साहित्य विविधांगी स्वरुपाचे आहे. हे साहित्य केवळ पारमार्थिक किंवा धार्मिक नसून लौकिक व व्यावहारिक बाबींनी नटलेले आहे. साहित्याचे असे एकही क्षेत्र नाही की ज्या क्षेत्रांत किंवा प्रकारांत जैन साहित्य निर्माण झालेले नाही. विविध विषयांनी परिपूर्ण असलेल्या या जैन साहित्यात न्याय, दर्शन, योग, आचार, पुराण, इतिहास, कथा, नीतिशास्त्र, व्याकरण, भूगोल, ज्योतिष, गणित, आयुर्वेद, प्राणिविद्या, वनस्पतिविद्या, कृषिविद्या, वास्तुकला, मूर्तिकला, चित्रकला, संगीत इ. विषयांचा समावेश आहे. जैन साहित्याने गाथा, श्लोक, सूत्र तसेच इतर तत्कालीन लेखन प्रकारांचा अंगीकार केलेला आहे.

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साहित्यनिर्मितीसाठी जैन धर्माने एखाद्या विशिष्ट भाषेचा आग्रह कधीच धरलेला नाही. कोणत्याही एका विशिष्ट प्रदेशातील भाषेचा किंवा विशिष्ट मानवसमूहाच्या भाषेचा स्वीकार करुन त्याव्यतिरिक्त इतर समाजाला ज्ञानदानापासून वंचित ठेवणे, हा मार्ग जैन साहित्याने कधीच स्वीकारला नाही. याउलट ज्ञानाची सर्व क्षेत्रे सर्वांना खुली ठेवण्याचे आदर्श धोरण जैन साहित्याने स्वीकारले. जनसामान्यांच्या बोली भाषेलाच आपल्या संदेशाचे माध्यम बनविले. परिणामी यातूनच काही भाषांची जडणघडण आणि विकास झाला. परंतु याहीपेक्षा सर्वात महत्त्वाचे म्हणजे संस्कृत, प्राकृत, मागधी, अर्धमागधी, शौरसेनी, महाराष्ट्री, गुजराती, राजस्थानी, हिंदी, तमिळी, तेलुगू, कानडी वगैरे भारताच्या विविध प्रदेशात बोलल्या जाणाऱ्या व पूर्वी बोलल्या जात असलेल्या भाषांमधून जैन साहित्याची विपुल प्रमाणात निर्मिती झाली. अशाप्रकारे जैन साहित्याची परंपरा ही प्राचीन असल्याचे दिसून येते. या साहित्याने आदर्श जीवनमूल्ये, आदर्श तत्त्वज्ञान जगासमोर ठेवले. त्याचा प्रभाव भारतीय तत्त्वज्ञ, विचारवंत, संत, महंत यांच्यावर पडला. याच प्रभावातून देशाची सांस्कृतिक परंपरा अधिक श्रेष्ठ आणि संपन्न होण्यास मदत झाली. म्हणूनच केवळ भारतीय साहित्यातच नव्हे तर भारतीय संस्कृतीत जैन साहित्याला मोलाचे स्थान आहे. जैन साहित्य म्हणजे जैन आचार, विचार, तत्त्वे यांचे प्रतिबिंब असलेले साहित्य. अशा या जैन साहित्याचे विविध भारतीय भाषांतील योगदान, पैलू खालीलप्रमाणे -

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हिंदी जैन साहित्य :- हिंदी साहित्याचा प्रारंभकाळ हा इ.स. ११८४ पासून १३५० पर्यंत असल्याचे मानले जाते. शालिभद्रसूरीच्या 'भरतेश्वर बाहुबली रास' (इ.स. ११८४) या ग्रंथापासून हिंदी साहित्याचा प्रारंभ झाल्याचे मानले जाते. यानंतर प्रामुख्याने 'चंदनबाला-रास', 'जीवदया-रास', 'स्थूलिभद्र-रास', 'नेमिनाथ-रास' वगैरे ग्रंथांची रचना झाल्याचे दिसते. या सर्व ग्रंथांचे कर्ते जैन मुनी असल्याचे सांगितले जाते. हिंदी जैन साहित्याचे विभाजन चार भागात केले जाते, ते असे - सैद्धांतिक ग्रंथ, पुराण चरित्रादी ग्रंथ, पूजा-पाठविषयक ग्रंथ आणि भजन-पद्यविषयक ग्रंथ. तत्कालीन भक्तिकालाच्या प्रभावामुळे हिंदी जैन साहित्यामध्ये पूजा-पाठविषयक ग्रंथांचे प्राधान्य जास्त प्रमाणात दिसून येते. हिंदी जैन साहित्यात आध्यात्मिक ग्रंथरचना करणारे कवी देखील अनेक आहेत. या आध्यात्मिक कर्वीमध्ये छीहल, पं. रुपचंद, पं. बनारसीदास, दयानतराय, भूदरदास, हेमराज या प्रमुख कर्वीच्या समावेश होतो.

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श्वेतांबर पंथीयांच्या हिंदी जैन साहित्यामध्ये कथाग्रंथांची संख्या अधिक आहे तर दिगंबरपंथीयांच्या हिंदी जैन साहित्यामध्ये कथाग्रंथांबरोबरच सैद्धांतिक ग्रंथही मोठ्या संख्येने आढळतात. हिंदी जैन साहित्याचा प्रसार गुजरात व उत्तर भारतात मोठ्या प्रमाणावर झाला. अशाप्रकारे हिंदी जैन साहित्य समृद्ध करण्यामध्ये विविध जैन साहित्यिकांनी महत्त्वपूर्ण योगदान दिले आहे.

- २. तेलुगू जैन साहित्य :- विशाल व विस्तृत अशा तेलुगू साहित्यात जैन साहित्याचे प्रमाण कमी आहे. दक्षिण भारतात जैन धर्माचा प्रवेश आणि प्रसार हा साधारणपणे नवव्या-दहाव्या शतकाच्या सुमारास झाला असल्याचे विद्वांचे मत आहे. दक्षिण भारतातील तमिळ व कन्नड भाषेतील साहित्य हे जैन धर्माने प्रभावित झाल्याचे आढळते. परंतु तेलुगू जैन साहित्य मात्र अगदी त्रोटक प्रमाणात असून त्याची कारणे ऐतिहासिक स्वरुपाची आहेत. सुमारे ११ व्या शतकाच्या मध्यभागात आंध्र प्रदेशात हिंदू धर्माच्या समर्थनासाठी मोठे आंदोलन झाले आणि त्यामुळेच तेथील जैन धर्माचे आणि पर्यायाने जैन साहित्याचे पतन झाले. परंतु असे असले तरी तत्कालीन हिंदू धर्मीय साहित्यिकांच्या लेखनशैलीवर जैन लेखनशैलीची छाप आढळून येते.
- ३. तमिळ जैन साहित्य :- उपलब्ध ऐतिहासिक साधनावरुन उत्तर हिंदुस्थानात पडलेल्या मोठ्या दुष्काळाच्यावेळी अंतिम श्रुतकेवली भद्रबाहू हे आपला शिष्य चंद्रगुप्त मौर्य व मुनिसंघासह दक्षिण भारतात आले आणि दक्षिण भारतात जैन धर्माचा प्रसार केला. तमिळ भाषेत जैन आचार्यांनी अनेक महत्त्वाच्या ग्रंथांची रचना करुन ठेवली. यापैकी काही महत्त्वाच्या ग्रंथांची महिती पुढीलप्रमाणे १) तोलकाप्पियम हा एक व्याकरणग्रंथ असून यामध्ये सामाजिक चालीरीतींचे दर्शनही घडते. २) कुरल हा एक नीती ग्रंथ असून आचार्य कुंदकुंद उर्फ एलाचार्य यांनी हा ग्रंथ रचला असल्याचे मानले जाते. या संपूर्ण ग्रंथामध्ये अहिंसा या सर्वोच्च तत्त्वाची स्तुती करण्यात आली आहे. ३) चिंतामणी या ग्रंथाची रचना तिरुतक देव यांनी केली असून यामध्ये जैन धर्मातील प्रमुख सिद्धांतांचे वर्णन आले आहे. ४) चूलामणी या ग्रंथांची रचना जैन कवी ताला मोलित्तेवर यांनी केली असून जिनसेन यांनी रचलेल्या महापुराणातील एका कथेच्या आधारे या ग्रंथाची रचना करण्यात आली आहे. ५) नेमिनाथम् हा तमिळ व्याकरणग्रंथ असून याची रचना करण्यात आली आहे. ५) नेमिनाथम् हा तमिळ व्याकरणग्रंथ असून याची रचना करण्यात आली आहे. ५) नेमिनाथम् हा तमिळ व्याकरणग्रंथ असून याची रचना करण्यात आली आहे. भ्रे नेकिताल प्रमुख सिद्धांतां वांनी केली असून जिनसेन यांनी रचलेल्या महापुराणातील एका कथेच्या आधारे या ग्रंथाची रचना करण्यात आली आहे. ५) नेमिनाथम् हा तमिळ काथेच्या आधारे या ग्रंथाची रचना गुणवर पंडिताने मलयपूर येथे केली आहे. मलयपूर

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येथे नेमिनाथाचे मंदिर असल्यामुळे या ग्रंथाला नेमिनाथम् हे नाव दिले असावे. या व्यतिरिक्त तमिळ भाषेत इतर अनेक जैन साहित्यविषयक ग्रंथ असून तमिळ प्रदेशातील चालीरुढी, परंपरा, सामाजिकता आणि संस्कृती तसेच तमिळ प्रदेशाचा इतिहास समजावून घेण्यासाठी तमिळ जैन साहित्याचे योगदान खूपच मोलाचे आहे.

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कन्नड जैन साहित्य - कन्नड जैन साहित्याचा प्रारंभ साधारणपणे नवव्या शतकात झाला आहे. अनेक कन्नड जैन कवींनी महाकाव्याबरोबरच खंडकाव्यांचीही रचना केली आहे. इसवी सनाचे दहावे शतक हे कन्नड जैन साहित्याचे सुवर्णयुग मानले जाते. महान कन्नड जैन की पंप हे जैन धर्माचे उपासक होते. त्यांचा जन्म इ.स. ९०२ मध्ये झाला. आदिपुराण व विक्रमार्जुनविजय या दोन महाकाव्यांची रचना त्यांनी इ.स. ९४१ मध्ये पूर्ण केली. आदिपुराणात त्यांनी प्रथम तीर्थंकर ऋषभदेव व त्यांचे पुत्र भरत आणि बाहुबली यांची कथा वर्णन केली आहे. कन्नड साहित्यातील दुसरे महान कवी पोन्न यांनी 'शांतिपुराण' या प्रसिद्ध महाकाव्याची निर्मिती केली. सोळावे तीर्थंकर शांतिनाथ यांनी चक्रवर्ती पद प्राप्त करण्यासाठी केलेल्या दिग्विजयाचे आणि नंतर मोक्षलक्ष्मीच्या प्राप्तीसाठी केलेल्या तपश्चर्येचे वर्णन या काव्यात केले आहे. याशिवाय 'जिनाक्षरमाला' नावाच्या स्तोत्र ग्रंथाची रचनासुद्धा कवी पोन्न याने केली आहे. इतिहासकारांच्यामते इ.स. ९५० हा कवी पोन्न यांचा काळ मानला जातो. आणखी एक कन्नड जैन महाकवी रन्न यांनी इ. ९३३ मध्ये 'अजितपुराण' हे काव्य लिहिले. दुसरे तीर्थंकर अजितनाथ व दुसरा चक्रवर्ती सगर यांची कथा या ग्रंथात वर्णन केली आहे. या ग्रंथाचे महत्त्व जाणून त्यावेळच्या राणी अत्तिमब्बे यांनी या ग्रंथाच्या एक हजार प्रती ताडपत्रावर लिहून घेऊन त्यांचे वितरण केले. यानंतरच्या काळातही अनेक कन्नड जैन कवींनी जैन साहित्याचे दालन समृद्ध केले. मराठी वळणाचे पहिले वाक्य, 'श्री चामुंडराये करवियले । श्री गंगराजसुत्ताले करवियेले' हे श्रवणबेळगोळ येथे आढळते. हे श्रवणबेळगोळ ठिकाण कर्नाटक राज्यात आहे.

संस्कृत जैन साहित्य - आचार्य समंतभद्र हे पहिले जैन संस्कृत कवी असून इ.स. च्या 4. द्सऱ्या शतकात त्यांनी जैन संस्कृत काव्याचा श्रीगणेशा केला. त्यानंतर आचार्य वीरनंदी यांनी चंद्रप्रभचरित या महाकाव्याची रचना इ.स. च्या दहाव्या शतकात केली. मधल्या काळात अनेक जैन कवींनी संस्कृत भाषेतून विविध प्रकारच्या काव्यरचना केल्या आहेत. महाकवी महासेन यांनी प्रदुम्नचरित या महाकाव्याची रचना इ.स. ९७४ च्या सुमारास केली. महाकवी असग यांनी वर्धमानचरितम् हा ग्रंथ रचला असून त्यात भगवान महावीरांचे जीवन वर्णिले आहे. जैन संस्कृत काव्यनिर्मितीची ही परंपरा अठराव्या शतकांपर्यंत चालत आल्याचे आढळते. जैन संस्कृत काव्यामधून वर्णाश्रम धर्माला विरोध दिसून येतो. जैन आचार्यांनी संस्कृत भाषेमध्ये विपुल अशी कथासाहित्य निर्मितीसुद्धा केली आहे. कथारत्नाकर (रचनाकार हेमविजयगणी), व्रतकथाकोश (रचनाकार श्रुतसागर), अघटकुमारकथा (रचनाकार जिनकीर्ती), कथाकोश (रचनाकार हरिषेण) या तसेच इतर काही कथाकाव्यांनी जैन संस्कृत कथासाहित्य समृद्ध झाले आहे.

मराठी जैन साहित्य - मराठी वळणाचे पहिले वाक्य सध्याच्या कर्नाटकातील श्रवणबेळगोळ येथील इ.स. ९८३ मधील शिलालेखात आढळते. 'श्री चामुंडराय करवियले | श्री गंगराजसुत्ताले करवियले' हे ते वाक्य होय. यातील चामुंडराय व गंगराय हे दोघेही जैन होते. या संदर्भात रा. चिं. ढेरे म्हणतात - ''खरे म्हणजे जैनांनी मराठी माध्यमातून आपले विचार पेरावे अथवा हृदय ओतावे, हे नवलाईचे नाही. कारण मराठीच्या जन्मापूर्वीपासूनच जैनांचा महाराष्ट्राशी आणि मराठीशी जिव्हाळ्याचा संबंध आहे. महाराष्ट्रापासून दूर असलेल्या श्रवणबेळगोळला गगनस्पर्शी गोमटेश्वराच्या चरणांशी मराठीच्या जयन्तीचे अभिलेख जैनांनीच कोरले.'' परंतु असे असले तरी मराठी जैन साहित्य पंधराव्या शतकांपूर्वी जास्त प्रमाणात उपलब्ध असल्याचे दिसून येत नाही. याचे कारण सांगताना डॉ. यू. म. पठाण म्हणतात -''भागवत संप्रदायाने स्वीकारलेल्या मराठीचा प्रभाव तत्कालीन सर्वसाधारण जनतेवर पडलेला होता. जे मराठी जैन लेखक होते त्यांच्यावरही या संप्रदायाचा प्रभाव सहजासहजी पडला आणि या सर्व गोर्ष्टीचे पर्यवसान मराठी जैन साहित्य कमी प्रमाणात उपलब्ध होण्यावर झाला.'' परंतु असे असले तरी पंधराव्या शतकापासून पुढे मात्र मराठी जैन साहित्याची सरिता प्रवाहित झालेली दिसते.

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मराठी जैन साहित्याच्या उपलब्ध इतिहासात ब्रम्हगुणदास हा पहिला मराठी जैन ग्रंथकार मानला जातो. याचा कालखंड इ.स. १४५१ ते १४६४ पर्यंत असल्याचे संशोधकांचे मत आहे. ब्रम्हगुणदासाचे 'श्रेणिक चरित्र' अतिशय प्रसिद्ध आहे. या ग्रंथाच्या मोठेपणाविषयी

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डॉ. सुभाषचंद्र अक्कोळे म्हणतात - ''ब्रम्हगुणदासाची ही रचना अस्सल मराठी वाटते. तत्कालीन मराठीतील कित्येक शब्द तसेच वाक्प्रचार या ग्रंथात सहजपणे उपयोगात आणले आहेत. इ.स. १४५० च्या सुमारास आचार्य गुणकीर्ती यांनी 'धर्मामृत' हा महत्त्वाचा ग्रंथ लिहिला. हा ग्रंथ म्हणजे जैन धर्मियांच्या आदर्श आचार-विचारांचा एक वस्तुपाठच आहे. गुणकीर्ती यांनी 'फाग' नावाचा गुजराती काव्यप्रकार मराठीत आणला. इ.स. च्या सोळाव्या शतकात पं. सूरिजन यांनी 'परमहंस कथा' नावाचे चंपूकाव्य रचले. याच शतकात गुणनंदी या मराठी जैन कवीने 'जसोधरपुराण' हा ग्रंथ रचला. सतराव्या शतकात अभयकीर्ती यांनी 'अनंतव्रत कथा' हा ग्रंथ रचला. वीरदास यांनी 'मुदर्शनचरित्र' हा काव्यग्रंथ रचला. याच शतकात दामापंडित, चिमनापंडित, भानकीर्ती, ब्रम्हपुण्यसागर तसेच इतर अनेक जैन कवींनी मराठी साहित्य समृद्ध केले. अठराव्या शतकाच्या सुरुवातीला देवेंद्रकीर्ती यांनी लिहिलेला 'कालिकापुराण' हा ग्रंथ मध्ययुगीन जैन समाजाच्या स्थित्यंतराचा इतिहास मानला जातो. या ग्रंथाविषयी डॉ. सुभाषचंद्र अक्कोळे म्हणतात - ''तत्कालीन धार्मिक, सामाजिक, राजकीय इतिहास समजून घेण्यास कालिकापुराण हे एक महत्त्वाचे साधन आहे. मुसलमान राज्यकर्त्यांनी दक्षिणदेश जिंकला आणि इकडील धर्म बुडविला. याचा परिणाम जैन समाजावर कोणता झाला हे या पुराणात चांगलेच दिसून येते.''

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अर्वाचीन मराठी वाङ्मयाची सुरुवात ही इ.स. १८०० पासून झाल्याचे ढोबळमानाने मानले जांते. परंतु मराठी जैन साहित्यावर मात्र इ.स. १८५० पर्यंत प्राचीन साहित्याचीच छाया दिसून येते. इ.स. १४५० ते इ.स. १८५० मधील सुमारे ४०० वर्षांच्या कालखंडात जवळजवळ दिसून येते. इ.स. १४५० ते इ.स. १८५० मधील सुमारे ४०० वर्षांच्या कालखंडात जवळजवळ पन्नासपेक्षा जास्त जैन साहित्यिक होऊन गेले. त्यांनी मराठीत रचलेल्या रचनांची संख्या एकशे पन्नासपेक्षा जास्त आहे. मात्र विशेष म्हणजे एकाही ग्रंथकाराचे चरित्र या जैन लेखकांनी पन्नासपेक्षा जास्त जाही. थोडक्यात सांगायचे तर जैन ग्रंथकार ग्रंथ रचत होते, जैन समाज ग्रंथ स्वीकारत होता पण जैन ग्रंथकारांची माहिती किंवा चरित्र मात्र उपलब्ध होताना दिसत नाही, हा एक मध्ययुगीन मराठी जैन साहित्याचा पैलू या सर्व साहित्यसंपदेवरुन लक्षात येतो.

वर उल्लेख केलेल्या भाषांमधील जैन साहित्यावरुन जैन साहित्याची राष्ट्रीय पातळीवरील विविधता, समृद्धी याविषयीच्या काही पैलूंचे दर्शन घडते. जैन धर्म हा भारतीय भूमीत उदयाला आलेला धर्म आहे. जैन धर्माचे साहित्य हे श्रमण साहित्य म्हणून ओळखले जाते. आज जरी जैन धर्म हा अल्पसंख्याक म्हणून ओळखला जात असला तरी मध्ययुगीन

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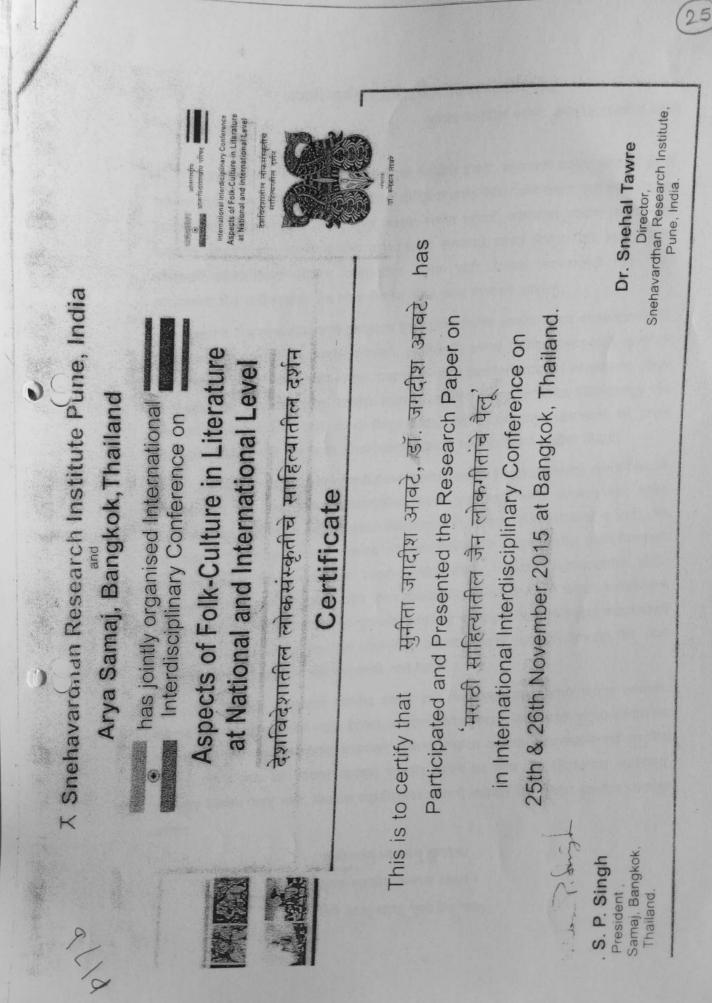
भारतामध्ये जैनांनी वैदिक परंपरेच्या बरोबरीने स्वतःचे स्वतंत्र स्थान, तत्त्वज्ञान, आचारविचार, साहित्य यांची विविधांगी स्वरुपाची निर्मिती केली आहे. जैन धर्मातील अहिंसात्मक भाव आणि अनेकान्त तत्त्वज्ञान यांनी हे साहित्य ओतप्रोत ओथंबलेले आहे. जैन साहित्यातील ह्या पैलूंची आज एकविसाव्या शतकाला नितांत गरज आहे. जैन साहित्यातील ह्या विविध पैलूंमुळेच हे जग, हे अवकाश सुखी, समाधानी, आनंदी आणि सुंदर होईल; असा विश्वास वाटतो.

संदर्भ :-

- शहा सुमतिबाई, पूर्णार्घ्य, पूर्णार्घ्य प्रकाशन, सोलापूर, द्वि.आ., १९९९. 8.
- ढेरे रा.चिं., प्राचीन मराठीच्या नवधारा, मोघे प्रकाशन, कोल्हापूर, प.आ., १९७२. 2.
- पठाण यू. म., मुसलमान संतांचे मराठी साहित्य, महाराष्ट्र राज्य साहित्य आणि э. संस्कृती मंडळ, मुंबई, प. आ. २००१.
- अक्कोळे सुभाषचंद्र, प्राचीन मराठी जैन साहित्य, सुविचार प्रकाशन मंडळ, नागपूर, ٧. प. आ. १९६८.
- संगवे विलास, जैन साहित्य आणि संस्कृती, शिवाजी विद्यापीठ प्रकाशन, कोल्हापूर, 4. प.आ. इ.स. २०००.

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मुनि मधुकर, तीर्थंकर महावीर, काँटिनेटल प्रकाशन, पुणे, प.आ., १९७७. ε.



मराठी साहित्यातील जैन लोकगीतांचे पैलू

- सुनिता जगदीश आवटे, जगदीश सदाशिव आवटे

हजारो वर्षांपूर्वी पृथ्वीवर मानव प्राण्याची निर्मिती झाली. मानवाची हळूहळू उत्क्रांती झाली. मानवाच्या विकासामध्ये शारीरिक, भावनिक, बौद्धिक अशी विविध अंगे येतात. त्यामध्ये भावनिक विकासासाठी मानवाने चित्र, शिल्प, नृत्य, नाट्य, संगीत इत्यादी साधनांचा उपयोग केला. संगीत कलेमध्ये लोकगीतांचा प्रभाव ग्रामीण तसेच शहरी समाजात जास्त दिसून येतो. मराठी भाषेत ज्याप्रमाणे लोकगीतांचा उपयोग समाजातील अनेक रूढी, परंपरा जपण्यासाठी केला जातो त्याप्रमाणेच जैन साहित्यातही जैन लोकगीतांचा वापर केला गेल्याचे आढळते.

मराठी जैन लोकगीतांमधून आपणाला समाजाच्या विविध अंगांचे स्वरूप पाहावयास मिळते. खेड्यापाड्यातून भगवान जिनेंद्राच्या पूजेसाठी, भक्तीसाठी, अनेक धार्मिक उत्सवासाठी, कौटुंबिक कार्यक्रमासाठी, जैन समाजातील अनेक ज्ञात कवी तसेच कवयित्रींच्याकडून लोकगीतांचे लेखन झाले आहे. जैन लोकगीते पूर्णतः धार्मिक तत्त्वावर आधारित नसून या विविध लोकगीतांतून जैन समाजाचे रीतिरीवाज, चाली रुढी, परंपरा दिसून येतात. काही लोकगीतांतून आचारधर्म, पर्व, उत्सव यांचे वर्णन आढळून येते, तर काही लोकगीतांतून तीर्थक्षेत्रे यात्रा याविषयी माहिती मिळते.

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लोकगीतांतून जास्तीत जास्त स्त्रीजीवनाविषयीची माहिती मिळते. लोकगीते म्हणजे स्त्रियांचे एक अनमोल धन आहे. कारण लोकगीतांचा वारसा पुरूषांपेक्षा जास्त प्रमाणात नव्हे पूर्णतः स्त्रियांकडूनच चालत आला आहे. भारतीय स्त्रीजीवनाचे वैशिष्ट्य काही आगळेवेगळेच आहे. इतर स्त्रीजीवनाशी त्याची तुलना करता भारतीय स्त्रीजीवन निश्चितपणे अतिश्रद्धाशील आणि निष्ठावान असल्याचे दिसून येईल. कारण या भारतीय स्त्रीच्यासमोर रामायण, महाभारतातील सीता, द्रौपदीसारख्या शीलवान स्त्रियांची चरित्रे सतत डोळ्यासमोर असलेली दिसून येतात. स्त्रीजीवनाचे विविध पैलू घडविण्याचे महान कार्य या पुराणादि साहित्याने पार पाडले आहे. तरीसुद्धा स्त्रीजीवनाचे खरेखुरे प्रतिबिंब या सर्व साहित्यापेक्षा लोकगीतांत अधिक स्पष्टपणे उमटलेले आढळून येते. अशा आदर्श भारतीय जीवनात जैन स्त्री तरी कशी मागे राहील ?

स्त्री जीवनात मातृत्वाला परमोच्च स्थान आहे. बाळाच्या आगमनाची चाहूल लागताच स्त्रीच्या अंगावर मूठभर मांस चढते. तिच्या आनंदाला पारावर राहत नाही. सर्व कुटुंबीय बाळाच्या आगमनाकडे डोळे लावून बसतात. बाळाच्या जन्माचे स्वागत आनंदाने, उत्साहाने सर्व कुटुंबिय करतात. पण ते बाळ जर साक्षात भगवान महावीर असेल तर मात्र जैन स्त्रियांच्या आनंदाला, उत्साहाला सीमाच राहत नाही. भगवान महावीरांच्या जन्माचे स्वागत जैन स्त्रिया खालील गीतातून करतात.

> कशी सांगु मी सांगु तुम्हाला आज महावीर जन्मास आला । रत्ने उधळू चला, फुले वेचू चला,

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भगवंताचा महिमा अपार आहे. महान आहे. तो गाता गाता विद्वानदेखील कसे थकून गेले आहेत ते खालील गीतातून आपल्याला दिसते.

वीराच्या रे वीरा, रवीच्या रे रविराजा माझा नमस्कार तुला त्रिलोकाच्या त्रिलोकराजा । मोठ मोठे पंडित, गुण गाता थकलेलं इंदु म्हणे तुज वीरा गुण गाऊ वाटयेलं ।। (इंदुमति मोतीलाल परबत (करकंब) यांनी हे गीत रचलेले आहे.)

जैन मंदिरात सगळीकडे स्वच्छता, टापटीप दिसून येते. प्रभू चरणावर वाहिलेल्या जाई-जुई तथा मोगरा, गुलाब आदि फुलांचा वास दरवळत आहे. उदबत्ती, कापराच्या सुगंधाने अवघे वातावरण सुगंधित, मोहक, आल्हाददायक झाले आहे. घंटानाद होत आहे. तरी सकाळची वेळ धर्मकार्य करण्यास अत्यंत महत्वाची असून स्त्रियांनी मंदिर परिसरात वावरताना कोणती दक्षता घ्यावी याचेही सुंदर विवेचन खालील लोकगीतातून करण्यात आले आहे.

मंदिराले जाता कुणाशी बोलू नये वेळ धरमाची आहे । मंदिराले जाता कुणाशी बोलू नये मनाचे सोडू नये णमोकर मंत्र ।।

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जैन धर्मामध्ये णमोकार मंत्राला अत्यंत महत्त्वाचे स्थान आहे. णमोकार मंत्राची महती सर्व जैन धार्मिकोच्याकडून गायिली जाते. परंतु स्त्रीच्या दृष्टीने तो णमोकार मंत्र म्हणजे अमूल्य ठेवा असून आत्मा शुद्धीचे रामबाण औषध आहे. ती म्हणते,

पंच न णमोकार साखरीचा रवा । वाने माझा जिव्हाळा शुद्ध झाला । पंच न णमोकार साखरीची पुडी । वाने माझी कुडी शुद्ध झाली ।।

णमोकार मंत्राचे चिंतन केले असता, संकटाचे निवारण होते तसेच आत्मशुद्धीची महान देणगी देखील या णमोकार मंत्राने प्राप्त होते. स्वर्गप्राप्ती सहज सुलभ होते.

सर्वच धर्मामध्ये नामस्मरणाला पराकोटीचे महत्त्व दिले आहे. जैन धर्मात भगवान महावीरांचे नाव घेताच पापाचा भार हलका घेऊन आत्मा मुक्तिपदास कसा जातो, तसेच सम्यग्ज्ञान, सम्यग्दर्शन व सम्यक्चरित्र या तीन रत्नांचा मार्ग त्यांनी कसा दाखवला आहे, त्याचे सुंदर विवेचन खालील गीतात दिसून येते.

महावीरांचे नाव घेता पापभार हलका होई । आत्मा तुमचा हलका होऊनी मुक्ती पदाला ग जाई रूरव्रवतावर बेडगी पान नवरी दिसते छान पण नवरदेव दिसतो ध्यान । आला आला रुखवत, रूखवतावर दोऱ्याची आटी नवरदेव रूसला फटफटीसाठी । आला आला रुखवत रुखवतावर तुरी नवरी दिसते बरी

पण नांदल तवा खरी।

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लंग्नाच्यावेळी या रूखवत प्रकरणावरून एकमेकांची उणीदुणी काढण्याची संधी नवरा-नवरीच्या दोन्ही बाजूंना मिळते. अर्थात गोड शब्दांनी कानउघडणी करण्याचा प्रयत्न यातून केलेला दिसतो. कधी कधी रुखवताच्यावेळी दोन्ही पक्षात भांडणे होण्याचाही संभव असतो. तरी या जुन्या चालीरुढीला आता बाजूला ठेवून फाटा देऊन नवीन व चांगल्या रुढींचे स्वागत करणे, आज काळाची गरज झाली आहे.

नुकतेच लञ्न झाल्यावर प्रथमच सासरी पाठविताना मातापित्यांच्या हृदयाला अतिशय वेदना होतात. यातना होतात. त्यांचे आंतरमन टोहो फोडत असते. पोटचा गोळा दुसऱ्याच्या पदरात टाकून देताना त्यांना कित अपार दुःख होत असेल ? पण मातापिता आपले हे अपार दुःख कोणालाही न दाखवता आपल्या लाडक्या लेकीला आनंदाने निरोप देतात व ती डोळ्याआड होताच आपल्या डोळ्यातील अश्रूंना वाट करून देतात. माहेरावरून सासरी जाणाऱ्या आपल्या मुलीला ते अनेक गोष्टी समजावून सांगतात तसेच उपदेश करतात. त्यांचा हा उपदेश खालील गीतातून दिसून येतो.

कोकरू वेडे माजे कालची सात पोर मांडवात झाली थोर कुलवधू। माइया लाडक्या ग लेकी धरू नको फार हेका संसार हा बहू बाका ।। रणांगण ।। तसेच - कामधान करताना तुझी विसर पदवी

नको माजवू यादवी स्वप्नातही ।

वडील आपल्या लाडक्या लेकीला समजावून सांगतात की, संसार करणे अवघड गोष्ट आहे. संसार हा एक प्रकारचे रणांगण आहे. पण या रणांगणावर यादवी न माजवता, भांडणतंटा न करता, प्रेमाने ही लढाई तुला जिंकायची आहे. जगाचे भयाण स्वरूप लेकीला समजावून सांगताना ती माता म्हणते

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मंगळसूत्राच्या जोडीला । फुलामंदी फूल, फूल जाईच चांगलं पतिदेव म्हणूनि, मला ते ग लाभलं । अखंड सौभाग्याचा ठेवा, जपीन मी पती माझा जपण्यासाठी अरिहंता,

आशीर्वाद हवा मला तुझा ।।

पती-पत्नीच्या नात्यात एक प्रकारचा गोडवा आहे. स्वतःचा पती आयुष्यमान व्हावा, त्याचे सान्न्ध्य सतत आपल्याला मिळावे तसेच सौभाग्याचा हा अखंड ठेवा सांभाळण्यासाठी ती खटपट करते. परमेश्वराजवळ पतीच्या आयुष्यासाठी आशीर्वाद मागत आहे. केवढा हा निःस्वार्थीपणा, उदारपणा व केवढा त्याग ! हे भारतीय संस्कृतीचे मोठे वैशिष्ट्य आहे.

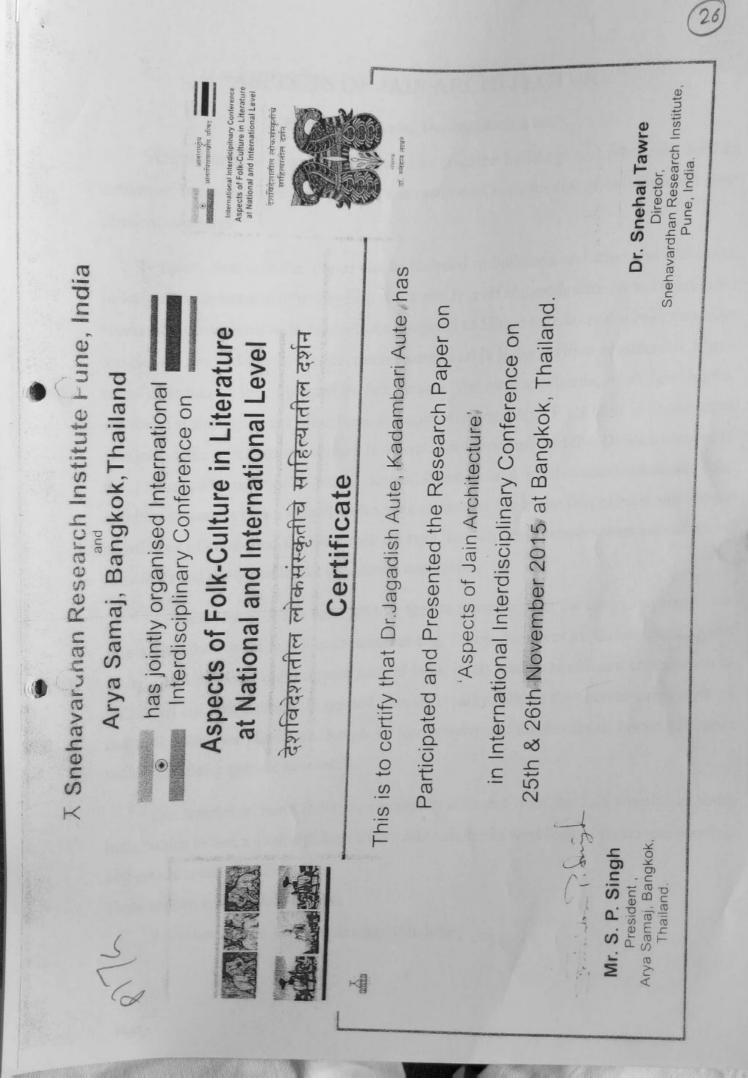
अशाप्रकारे जैन लोकगीतांतून प्रामुख्याने धार्मिक, सामाजिक तथा नैतिक स्थितीचे वर्णन केलेले दिसते. जैन लोकगीतांत धार्मिकता अधिक प्रभावीपणे दिसून येते.

लोकगीते म्हणजे समाजाचा जणू आरसा आहे. या लोकगीतांतून जैन समाजाची धार्मिकता, नीतिमत्ता, सामाजिक रुढी, परंपरा, इ. पैलू लक्षात येण्यास मदत होते. या लोकगीतरूपी आरशात पाहताच समाज जीवनाचे मुख दृष्टीस पडते.

पूर्णार्घ्य, संपा. सुमतिबाई शहा, प्रकाशक - रतनचंद सखाराम शहा, सोलापूर, पहिली आवृत्ती, सन 9996.

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"ASPECTS OF JAIN ARCHITECTURE"

Kadambari Aute, Dr. Jagadish Aute* "Architecture" is a general term used to describe buildings and other non building structures. It can be the style of design and method of construction of buildings and other physical structures.

Temples, chaityagruha, stupas can be included in buildings and structures like caves, pillars can be included in other physical structures. Jain art and architecture refers to religious works of art associated with Jainism. As compared to Hindu temples and monuments, Jain temples are few and spaced out. But the mainstream art in India has been considerable. Every phase of Indian art is represented by Jain version. The most spectacular of all Jain temples are found at Ranakpur and Mount abu in Rajsthan. Deogarh(U. P.), Ellora in Maharashtra also have some specimens of Jain art. In a perticular the complex of five Dilwara temples of the 11th to 13th centuries at mount abu in Rajsthan is a much visited attraction. Jain architecture cannot be accredited with a style of its own, for in the first place it was almost an offshoot of Hindu and Buddhist rock cut style. Initially these temples were carved out of rock faces and the use of bricks was almost negligible.

At some places, it has been become hard to recognize that the caves and stupas are Jain or Buddhist and it is still undecided. For e. g. Dharashiv caves in Maharashtra. Even though Jainism spread only in some parts of India, it has made a significant contribution to Indian Art and Architecture. In general, Jain art broadly follows the contemporary style of Indian Buddhist and Hindu art, though the iconography and the functional layout of temple buildings reflects specific Jain needs.

Jain temples in north India are completely different from the Jain temples in south India, which in turn are quite different from Jain temples in west India. Jain temple which is 100 yrs old is called a 'Tirtha'.

There are two types of Jain temples

.

1.Shikhar-bandhi Jain temple (one with dome)

2. Ghar- Jain temple (home temple without dome)

Plan of main temple building consist of Verandah, Sabhagriha, Garbhagriha. The buffering space between Sabhagriha and Garbhagriha is known as Antaral surrounded by cell. All Shikhar-bandhi Jain temples have many marble pillars which are carved beautifully with Demi-god posture. There is always a main deity also known as Mulnayak in each temple. The main part of Jain temple is called "Gabhara" (Garbha-griha) in which there is the stone carved God idol. Yaksha and Yakshini (Demi-gods), attendants, Spirits who guard Tirthankara are usually shown with them. These sculptures or images are usually depicted in either the lotus position (padmasan-the seating position) or kayotsarga (the standing position).Manstambha (column of honor) is a pillar that is often constructed in front of Jain temples.

In early stages of evolution, structures like caves came into existence and in later years Jain started building temple cities on hills based on the concept of mountains of immortality. Compared to Hindu temples in India Jain temples are few and spaced out. The latter used to tear down their older, decaying temples and build new ones at the same site. On the other hand Jain temples had a certain militant aura around them, probably because of plunderers who may have carried away riches. The reason being that Jain temples are the richest temples in the world, surpassing even *Mughal* buildings in terms of grandeur and material wealth.

The temple cities were not built on a specific plan; instead they were the result of sporadic construction. Natural level of the hill on which city was built accommodated various levels so that effect of architecture and grandeur goes on increase. Each temple of followed a set pattern, styles, designed on principles of architecture in use during the period. The only variation was in form of frequent *chaumukhas* or four faced temples. In these the image of a *'Tirthankar'* would face four cardinal points or four *Tirthankaras* would be placed back to back to face four cardinal points. Entry into this temple would be from four doors. If temple is dedicated to *Chaturmukha* image, its *Garbhagriha* is also opened to all four directions,

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thus provides *Mandapa*, which represent a place of both worship and teaching in front of each side.

In the temples with multiple columns, the leading idea of the plan is that of a number of columns arranged in squares. Wherever it was intended to have a dome pillars were omitted, so as to leave spaces in the form of octagons. By corbelling over the pendentives in level courses the dome was gradually formed.

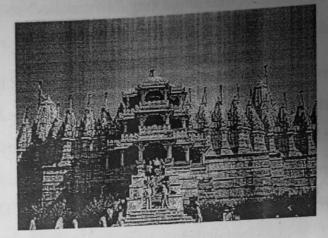


Image: 1 Adinath templeat Ranakpur in Rajsthan is a example of such a temple.

Adinath templeat Ranakpur in Rajsthan is a example of such a temple. It stands on a basement of 60 m by 62 m which is like a stronghold. On the top of a flight of stairs at the central entrance, there is three storied 'Balanaka' (entrance hall) which has domed roof.



Image:2 Statue of Gommateshwara.

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Another famous Jain *Tirtha* is *Shravanbelagola* which is famous for 17 m monolith statue (statue casted from a single piece of rock) of *Bahubali* situated above a hill. It was built in around 983 A.D. and is one of the largest free standing statues in the world. There are five monolithic statues of *Bahubali* in Karnataka measuring more than 6m in height. Statue of *Gommateshwara* in *kayotsarga* position is regarded as one of the largest monolithic statues in the world and is visible from a distance of 30 km. it was created around 983 A.D. by *Chavundaraya*, a minister of the *Ganga* king *Rachamalla*. Neighboring area has Jain temples known as *Basadis* and several images of *Tirthankaras*

The famous example of Jain architecture is the world heritage site of Ellora consists of caves of Hindu, Buddha as well as Jain religion. First five Jain caves at Ellora belong to the 9th and 10th centuries. Jain caves reveal specific dimensions of Jain philosophy and tradition. They reflect a strict sense of asceticism – they are not relatively large as compared to others, but they present exceptionally detailed art works. "The sculpture of *Ellora* falls in a class by itself. The Jain sculpture is in no way inferior in skill or workmanship to his Buddhist and *Brahmanic* counterparts. This craftsmanship is perhaps of a high order. The Jain images are carved is perhaps of a high order. The Jain caves are carved with a great technical skill and devoted labor."

"The pillars and images of Jain caves have great individual merit. The images are carved with care. The faces look calm and serene. The ornaments that they wear are delicately and beautifully carved." ['*Ajanta* and *Ellora* by prof. Gupta and prof. Mahajan].

The most remarkable Jain shrines are the Chhota Kailash (cave 30), The Indra sabha (cave 32) and the Jagannath Sabha (cave 33). Cave 31 is an unfinished four pillared hall and a shrine. Cave 34 is a small cave, which can be approached through an opening on left side of cave 33. Amongst other devotional carvings, a place called 'Samavasarana' is of special interest of Jains as it is a hall where the Tirthankara preaches after attaining omniscience(the state of having total knowledge).

'Indra sabha' (cave 32) is a two storied cave with one more monolithic shrine in its court. It has a very fine carving of lotus flower on ceiling. It is known as 'Indra sabha' probably it is significantly ornate and also because of sculpture of Yaksha (dedicated attendant deity) Matanga on a elephant, which was wrongly identified as that of Indra. On the upper level of the double storied shrine excavated at the rear of court, an image of Ambika [image 3] is found seated on her lion under a mango tree, laden with fruits. All other Jain caves are also characterized by intricate detailing. Many of the structures had rich paintings in the ceilings fragments of which are still available.



Image:3 An image of Ambika

The contribution of Jains towards art and architecture was especially important in view of the magnificent artistic creations, particularly in the forms of images, temples and paintings, spread all over the country and covering a time span in continuity from the earliest through the modern time. The Jain art with profuse variety changes, innovations and embellishments has never been monotonous also. The Jain art and literature thrived most vigorously between 10th and 15th century A.D. The period saw the building of a very large number of Jain temples with exquisite sculptural carvings.

Glossary :-

- 1. Chaityagriha isolated assembly or prayer hall structure.
- 2. Stupa a dome shaped building erected as a Buddhist shrine.
- 3. Sabhagriha assembly or prayer hall in temple.
- 4. Garbhagriha innermost sanctum where idol of the primary deity of the temple resides.
- 5. Antaral transitional space between sabhagriha and garbhagriha.
- 6. Mulnayak main deity of temple.
- 7. Yaksha demi-god.
- 8. Yakshini -demi-goddess.
- 9. Tirthankara in Jainism a person who has conquered sansara (the cycle of death and rebirth) and provides a bridge for others to follow them from sansara to moksha (liberation).
- 10. Padmasan seating position.
- 11. Kayotsarga standing position.
- 12. Manstambha -column of victory often situated in court of temples.
- 13. Chaumukhas/ Chaturmukhas idol or icon with four heads
- 14. Mandapa pillared hall.
- 15. Balanaka entrance hall.
- 16. Tirtha Jain temple which is 100 years old is called tirtha.
- 17. Bahubali another name of lord Gommateshwara.
- Gommateshwara lord Gomateshwara, was a son of Rishabha (first tirthankara and founder of Jainism).
- Basadi Jain monastery or temple where an image of one of the twenty four Tirthankaras is installed.
- 20. Samavasarana the garbhagriha of Hindu temples means "house of God" on the other hand, a Jain temple is not house of God but a place where Tirthankara gives teaching.

References :

 "Jain Sahitya Va Sanskriti"; Editor: Dr. Vilas Sanagave, kolhapur; Year-October 2000.

- 2. "Jain Aitihasik-1"; Editor: Shrenik Annadate; Year: April 2002.
- 3. "Jain Aitihasik-2"; Editor: Shrenik Annadate; Year: January 2003.
- 4. Encyclopedia Of Indian Architecture, Volume-3 Jain.



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RESEARCH AND INNOVATION : DYNAMISM IN LOTTERY BUSINESS

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Abstract :

Retail business is undergoing fundamental changes, both in terms of the range of products offered to clients and with regards to the continually evolving modes of interaction between clients and retailers. This fact, coupled with the economic, financial and regulatory instability faced by many countries, whether on a large or small scale, creates a business environment that is far more complex and fluid than it was several years ago. The lottery business is a market which, at present depends largely on the deployment of extensive retail network. It also has to undergo these changes in order to adapt the new environment. Lottery success is accomplished through a combination of market research, effective game design, optimization of prize payouts, coordinated game introductions, requiring sales and marketing team efforts. As sales grow, so do demands. As the agency prepares for a slowing sales trend, product improvements will not be enough; the Lottery will need to consider other methods of increasing sales. These methods could include improving productivity at existing retailers, new retail environments, or potentially offering a new type of product. The ability to implement these strategies is dependent on sufficient resources.

Key words: Lottery, Business, Dynamism, Lottery Network, Productivity, Customers Trend

Objective :

- 1. To know the dynamic environment in Lottery Retail.
- 2. To know thevarious element of Environment in Lottery Business
- 3. To Understand the function of Lottery Business under Retail Shade.

Research Methodology :

This study is based on secondary data. The data has been collected from various published sources books, journal & websites etc.

Lottery retail: A dynamic environment :

Maintain its current Situation, of lottery let alone continue to grow revenues and develop a platform for the future technologies. The Lottery is reaching a tipping point. It is unable to find out the programmers that are competent. It is essential to move forward with a replacement solution to assure the continued integrity of the system and sustainability of revenues.

Changing needs - New Customer :

It is the need of retailers to sustain their growth for this it led them to abolish the traditional "one-size-fits-all" business model was abolished which was the dominant framework of operations for many decades. Consumers nowadays are active, knowledgeable and even more informed and demanding than before. They not only demand good service and quality products but also prefer a wide range of product availability, easiness of purchase, and diverse distribution channels.

Consumers themselves are also undergoing major changes in their buying behavior. There is also the increasing importance of the population group born roughly between 1976 and 2000. The New Consumer has awareness about market and they are engaging with an interactive marketplace. It is characterized by heterogeneity and disputes the assumptions of conventional marketing.

Lottery point of sales seem to be adapting to this new situation by increasing their presence in shopping malls, recruiting exclusive stores, developing gaming corners, and utilizing state-of-the-art technology to offer information (e.g. through screens) or to connect multiple users in peer playing.

Customer loyalty :

Nowadays games offer excitement mainly through their fast pace. Innovative technological solutions easily allow a group of connected players to interact with each other through gaming. Such innovative solutions formulate product offerings that are highly appreciated by the new type of player mentioned above.

The consumer of lottery products tend to be more store loyal rather than brand loyal, as is the case with various others product categories. The main reasons for this include:

- **Proximity**: It is a result of the high density of lottery POS (point-of-sale) network. Effectively covering the playing population of a given market, the POS network is probably the most important factor in the success of a lottery operation. This is the reason why a lottery shop can be found in almost every neighborhood.
- **Personal relationship** between the retailer and the player. This is due to the fact that players usually require guidance on how to play, draw results, and information on upcoming lottery events.
- Social aspect of new lottery games. Due to the core characteristics of specific games, players interact with each other inside the shop, exchanging views, prognostics and expectations on next draw results and statistics or are connected with each other in peer playing.
- **Responsible gaming :** Applying / enforcing responsible gaming practices and principles can be done more easily in the context of a stable point of sales than in any other environment.
- Loyalty schemes are usually initiated in a specific POS, and this reinforces the loyalty of players to the specific retailer.

Proximity refers not only to the physical aspect of a point of sale, but also to its virtual aspect, i.e. Internet. The Internet is not considered to be a competing distribution

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channel in relation to the physical retail network, but rather a complementary one, e.g. in some lotteries, Internet represents more than 15% of the revenue with an astonishing growth trend.

Solutions to Trend :

Responding to this trend, various lottery retailersoffer a range of technological and commercial platform solutions to integrate these two distribution channels and to reinforce the strength of retailers. Some of these solutions include:

- Single point of contact: Retailers, who register a player to participate through the Internet in the games of the given lottery, can receive their winnings only from that specific retailer. As a result, players can benefit from the advantages of the Internet, playing anytime, anywhere, while at the same time creating strong bonds with the retailer.
- Different Commission Models: Retailers who register players to participate through the Internet can increase their commission, based on the sales that the specific player makes through his/her Internet participation.
- Loyalty programs: After the registration, the personal data of the player are known to the Lottery, and so dedicated offers or promotional messages can be sent only to players whose profile and needs meet the specific marketing activity.

Monitor Games :

By making the Internet a complimentary channel to retail, the organic growth of the retailer is directly encouraged as a result of:

- Attracting the younger generation,
- Increasing point of sales traffic,
- Increasing average spending per visit to the point of sales,
- Increasing the frequency of visits by current customers,

Offering an attractive as well as a functional playing environment is of vital importance.

Applying merchandising principles to optimize retail space, such as TV screens to offer information and live gaming, monitor games to offer variety and excitement, ticket checkers to offer convenience, and functional coupon holders to enhance accessibility, are only few of the elements of a successful retail shop. In all cases, the retail outlet will remain the focal point for consumers participating in lottery products. Internet and mobile solutions are already integrated as a complimentary channel of distribution, and will continue to be so, in order to increase retailer shop traffic and lottery revenue.

Lottery Retailers have successfully applied merchandising principles in many cases.

Lottery Business :

Lottery business includes: computer and instant lottery, internet lottery, telecommunication lottery, video lottery, bingo lottery, lottery technology, lottery business game, and international lottery, eight major categories. With

comprehensiveness, has become a lottery industry's leading supplier of comprehensive business solutions.

1) Computerized and instant lottery business :

Lottery Retailershave carried out computerized and instant lottery marketing and promotion, and sales agencies carry logistics distribution businesses all over the cities.

2) Internet lottery business :

Lottery retailers largely use Internet for Lottery Business.

3) Telecommunication lottery business :

The telecommunication lottery business is mainly engaged in the provision of three business categories of services including mobile lottery betting, mobile instant lottery game and mobile value-added services for the lottery industry.

- a) Mobile lottery betting: the most professional expert in this respect, providing the most comprehensive types of lottery playing method, way of lottery betting, and covering the most of the mobile terminal user groups.
- b) Mobile instant lottery : the most forward-looking and advanced instant lottery operation system and is a perfect integration of traditional printed instant lottery, video instant lottery and mobile lottery betting business.
- c) Mobile value-added : platform the most precise and authoritative wireless valueadded lottery information, provides professional lottery information and tools in the most convenient and quickest ways, such as SMS, MMS.
- 4) Lottery technology business :

Lottery technology business is mainly engaged in the provision of services of research and development, implementation, operation and maintenance for the lottery industry. Its lottery sales management system provides a comprehensive solution, and the "hotline system" for the paper printed lottery system, paperless lottery system and mobile phone instant lottery system are integral parts of the system, which provides the most secure, stable operational and maintenance services.

5) Lottery game business :

Lottery game business is mainly based on the philosophy that "transform lottery to game, transform game to lottery," aiming to a perfect combination of characteristic of lottery and game, creating unique and charming lottery products, and is engaged in the provision of lottery product development, design, and management and operation to the lottery industry.

Appraisal of External Environment :

It is essential that the Lottery assesses the external environment in order to implement our Strategic Plan.

The Lottery operates in a retail business environment and is therefore subject to rapidly changing market conditions. The Lottery's ability to adaptto those rapidly changing market conditions will determine its competitiveness and ability to continue generating revenues. Changing conditions include Lottery market share, Lottery customers' expectations due to changes in the mix of products offered, and economic factors. Each of these shifts will be described in detail below.

Lottery Customer Expectations :

Customers of the Lottery expect us to keep games interesting and relevant.

Traditionally, the compelling reasons that consumers choose Lottery games over its competitors' games have been rooted in four general areas:

- The ability to offer extraordinarily large sums of money as prizes for a very small wager;
- The convenience of play as Lottery games is innearly every convenience store and supermarket, aswell as many other retail outlets;
- 3) Public openness and accountability with respect to game operations and beneficiaries.
- 4) Proceeds from the Lottery benefit.

Economic Factors : It will be difficult for Lottery to maintain its past reliable forecasting based on current and foreseeable economic trends. Nevertheless, significant and general decreases in disposable income might be expected to dampen Lottery sales.

E-Commerce Drivers : Entertainment is increasingly understood as something delivered electronically. Electronic games with a skill element are enormously popular. Pure games of chance (electronic or otherwise) generally require a material reward element to maintain the interest of players.

Industry Trends : It is essential that we consider industry trends in our efforts to perpetually develop new games and markets in order to maintain our current player ship and to attract new customers.

Conclusion : There is a frequent change in the environment of lottery Business.Various factors are responsible for Lottery environment. The Lottery still maintains a competitive edge in these areas, threats to its perceived value and therefore its player ship base is numerous.Increasing gaming options, such as those that attain a fast pace or involve an element of skill, have accounted for much of the growth in the lottery. The Lottery will need to create compelling games, within its guidelines that can compete in this market. The lottery business, a market that at present depends largely on the deployment of extensive retail networks also has to undergo these changes in order to adapt to the new environment. It will definitely be proved effective if lottery business adopt new policies and planning.

References:

- Lottery- NashibachyaSandhipallyad- N. Sugalchand Jain
- <u>http://www.intralot.com</u>
- <u>https://www.wikipedia.org</u>
- www.lottostrategies.com
- www.biglotteryfund.com/research/environment

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ROLE OF SKILL DEVELOPMENT IN MAKE IN INDIA

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Abstract :

The Prime Minister acknowledged that India being ranked low on the 'ease of doing business' ranking by World Bank and added that he has started to sensitize the Government officials in this regard. On his recent meeting with World Bank President Jim Yong Kim, Modi said "World Bank President was also expressing this worry. Probably we were 135th in the world at that time. The Prime Minister Narendra Modi, prior to the commencement of his maiden US visit, last month launched 'Make in India', a major national initiative which focuses on making India a global manufacturing hub Around one year back, Prime Minister Narendra Modi launched "Make in India" project, with an aim to make manufacturing a key engine for India's economic growth. Planning Commission report suggests only10% of the Indian workforce get formal training and against the actual industrial training requirement of 22 million workers, only 4.3 million workers are getting trained To overcome this, Government of India has launched various skill development initiatives, but faced various challenges while implementing the same.

Introduction:

Make in India A national program designed to transform India into a global manufacturing hub. The focus is on attracting investment by physical infrastructure creation, foster innovation; protect intellectual property and enhancing skill development. For this project, government has released separate brochure for 25 sectors and also created a website allowing investors to seek clarifications on policy matters within 72 hours. According to Prime Minister NarendraModi, it is important to increase the purchasing power of common man, as this would further boost demand, and result in development, in addition to benefiting the investors. The faster people are pulled out of poverty and brought into the middle class, the more opportunity will there be for global business. Therefore, investors from abroad should create jobs. More employment help will in increasing the purchasing power. But this requires equipping the workforce with the appropriate skills acceptable across the globe and Indian market.

Therefore, it is essential to focus on skill development for the success of "Make in India".

What Is Skill Development?

Skill development acts as an instrument to improve the overall effectiveness and empowers an individual to work more efficiently. The economy becomes more productive, innovative and competitive through the existence of more skilled human potential. Increasing pace of globalization and technological changes provide both challenges and growing opportunities for economic expansion and job creation.

Countries with higher and better levels of skills adjust more effectively to the challenges and opportunities of globalization. Key processes in higher skills development at work:

- Engagement with challenging work
- Self-directed learning at work

Interactions at work

Identities at work

Knowledge at work

• Supporting the learning of others

Definition:

Dr. BE Nzimande, MP Minister of Higher Education and Training states: "For our country to achieve high levels of economic growth and address our social challenges of poverty and inequality, we must work together to invest in education and training and skills development to achieve our vision of a skilled and capable workforce to support an inclusive growth path."

"An <u>ability</u> and <u>capacity</u> acquired through deliberate, <u>systematic</u>, and sustained effort to smoothly and adaptively carryout <u>complexactivities</u> or <u>jobfunctions</u> involving <u>ideas</u> (<u>cognitive</u> skills), things (<u>technical skills</u>), and/or people (<u>interpersonal skills</u>). See also <u>competence</u>."

"To improve productivity in the workplace and the competitiveness of our businesses andToimprove the quality of life of workers, their prospects of work and their mobility."

Note that he makes a distinction between education, training and skills development and that he frames skills development within clear objectives:

- Skills development is, then, the intended output of education and training efforts and it should be an enabler for growth. As an entrepreneur, the growth of your business and the establishment of a legacy are paramount. James Moore, owner of Fleet Dynamics, captured this sentiment when I asked what the development meant to him; "Enhancing the capability of employees to (hopefully) improve the company's efficiencies in the employee's specific sphere of influence; and thus ultimately improving the bottom line revenue of the company."
- 2. James has positioned employee capability as fundamental to the success of his business. Do you share the same view? The cliché remains valid: your people are your greatest asset. Do you understand what skills development means to them? Do you recognize that their attitude to personal growth determines the success or failure of your skills development efforts?

As an entrepreneur, you need to unpack each of these so that you can define what skills development means in your organization. Here's how:

Objectives of the Study:

- 1. To know about the existing level of Skill Development in India
- 2. To analyze the requirement of Skill Development
- 3. To find out the suitable ways to fulfill the requirement of Skill Development
- 4. To study the challenges faced by skill development system in India.
- 5. To suggest possible solutions or ways forward.

Research Methodology:

Research Design selected for this research is descriptive design. In order to collect desired data, Secondary data method of data collection is adopted in this study. The data were collected from journals, magazines, publications, articles, research papers and websites.

Research Data Explain:

Percentage of employers having difficulty in filling jobs 2012

Sr. No.	Countries	Employers having difficulty in filling jobs %					
1	Japan	81					
2	Brazil	71					
3	US	49					
4	India	48					
5	Germany	42					
6	France	29					
7	Canada	25					
8	China	23					
9	South Africa	10					
10	Spain	09					

,Source:International LabourOrganisation, 23 June 2012,

According to the NSSO survey (2004–05), only 6% of the total workforce (459 million) is in the organized sector. The World Economic Forum indicates that only 25% of the total Indian professionals are considered employable by the organized sector. The unorganized sector is not supported by any structured skill development and training system of acquiring or upgrading skills. The skill formation takes place through informal channels such as family occupations, on-the-job training under master craftsmen with no linkages to formal education training and certification.

Projected growth and sector demand :

India is expected to grow at a rate of 8%, on an average, in the next 10 years5. More than 700 million Indians are estimated to be of working age by 2022. Out of these, more than 500 million

require some kind of vocational or skill development training. Twelfth Five Year Plan: The country has set a tough challenge in the field of vocational education and

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training in its approach paper in the Twelfth Five Year Plan. It aims to increase the percentage of workforce with formal skills to 25%7 at the end of the plan. It is estimated that 50–70 million jobs will be created in India over the next five years and about 75%–90% of these additional employment avenues will require some vocational training. The following table presents the projected employment in the various sectors of economy for diverse growth scenarios till 2017.

V	GDP growth	Projected employment(in million)						
Year	Rate	Agriculture	Industry	Services	Total			
	9%	229.2	105	154	487.7			
2011-12	7%	225.4	102	149	476.4			
	5%	221.5	99	145	465.0			
	9%	240.2	126	189	555.0			
2016-17	7%	232.0	117	175	523.5			
	5%	224.0	108	161	493.3			

Projected growth and sector demand

Source: NSDC

Sector focus: The government has identified 20 high growth sectors of industries and services that have the ability to provide expanded employment. It consists of 10 high-growth sectors on the manufacturing side and an equal number on the services front. Out of these, the key sectors are manufacturing, textile, construction, automotive and health care8. It is necessary to develop proper skill training mechanisms as the skill sets that are required in the manufacturing and services sector are different from that of the agriculture sector.

National policy on skill development:

Pradhan Mantri Kaushal Vikas Yojana: (PMKVY) is the flagship outcome based skill training scheme of the new Ministry of Skill development and Entrepreneurship. This skill certification and reward scheme aims to enable and mobilize a large number of Indian youths to take up skill number of Indian youths to take up skill training and become employable and earn their livelihood. Under the scheme, monetary reward would be provided to monetary reward would be provided to monetary reward would be provided to trainees who are successfully trained, assessed and certified in skill courses run by affiliated training providers. This will boost the productivity of the country's workforce by enabling it to acquire high quality skill training across a range of sectors. It will also bring about a paradigm shift from input-based to outcome-based skill training in the country. It also seeks to significantly scale up skill training activities in the country and enable skill training to happen at a fast pace without compromising quality.

Today India is one of the youngest nations in the world with more than 62% of its population in working age group 15-60 years more than 54% of it is total population below 25 years of age. It is further estimated that the average age of the population in India by 2020 will be 29 years as against 40 years in USA, 46 ears in Europe and 47 years in japan. Over the next 20 years the labor force in the industrialized world is expected to decline by 4% while in India it will increase by 32%.

National policy mission:

1. Create a demand for skilling across the country.

- 2. Correct and align skilling with required competencies. 3. Connect the supply of skilled human resources with sectorial demands.
- 4. Certify and assess in alignment with global and national standards.
- 5. Catalase an ecosystem wherein productive and innovative entrepreneurship
- germinates, sustains and grows, leading to creation of a more dynamic entrepreneurial economy and more formal wage employment.

Need for change of mind set of student and parents:

Parents' mind-set towards their children should change. Referring olden days to the children will not help anymore. What they as parents have faced is not what their children will face. Parents should accept that the dynamics have changed and will keep changing. Parents and student should not regard vocational courses as low level and low status courses. These courses will be the most sought-after ones in the years to come and will be the closest to getting your children a job.Parents should come out of the notion that entrepreneurship is not for their children. Entrepreneurship will become more important than getting a job. Making a career by doing a will be a thing of the past. Girls would benefit most if they think to get themselves skilled. For those girls and boys who cannot afford higher education, getting vocationally qualified is the best way to career success.

There are several challenges that are faced by the government in imparting quality skill training to the youth of the country. These challenges include:

- 1. Increasing capacity and capability of the existing system to ensure equitable access for all
- 2. Maintaining quality and relevance.
- 3. Creating effective convergence between school education and the government's skill development efforts.
- 4. Creating institutional mechanism for research development quality assurance, examinations and certification, affiliations and accreditation.
- 5. Mobilizing adequate investment for financing skill development.

In order to provide adequate training to the youth and develop necessary skills, the Government of India took steps to improve the skill training scenario in the country. In 2009, the government formulated the national skill development policy hat laid the framework for skill development, ensuring that individuals get improved access to skills and knowledge.

Suggestions:

- 1. There should be certain amount of stipend to be paid for vocational students, which will encourage the students to opt for vocational training.
- 2. To encourage participation from local industries, the local governments should help local enterprises by incentives such as allotment of land at subsidized prices, or preferential treatment in case of award of government projects. Such measures

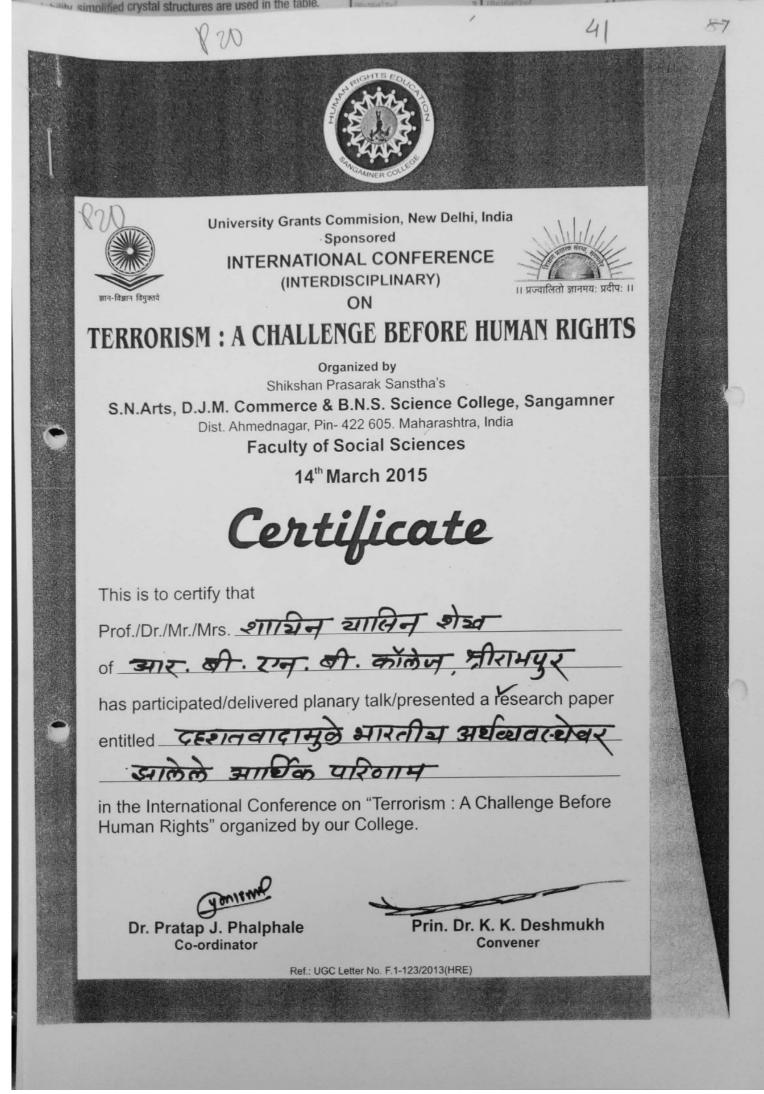
can prove to be influential in encouraging industry to actively participate in vocational education and training.

Conclusions:

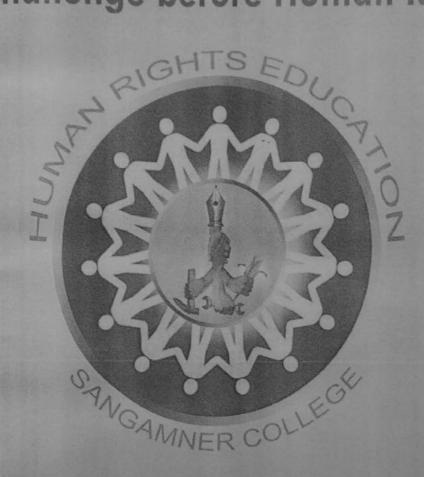
In India, the concept of skill development has been largely recognized and many Programs and policies are being formulated to initiate this concept not only amongst the individuals in urban areas but in rural areas as well. NSDCB and NSDC are the organizations that have formulated policies for skill development amongst the individuals and besides these there are vocational training centers. Skill development has been facilitated by the organization of certain programs, educational institutions and training centers. Skills are of various kinds, within an organizational structure it is essential on the part of the management to develop leadership skills amongst themselves such as motivating people, decision making and communication. In India, rural masses are still in a backward condition, steps therefore have been implemented to develop skills amongst them for the purpose of obtaining self-sufficiency in resource utilization, governance and leadership. The different kinds of other skills which can open ways towards development of the individuals are literacy skills, computer skills, craftsmanship, manufacturing, trading skills and so forth. Skill development always leads to progress of the individual and the kinds of skills and knowledge that he acquires may not be applicable immediately but it always proves to be beneficial in the long run.

External References:

- www.makeinindia.com
- Planningcommission.gov.in
- Skill Development: The Key to Economic Prosperity A Study On The Requirement Of Skills Development For The Success Of "Make In India" Project.
- www.forbesindia.com
- Economic Times e-paper
- Business Standard e-paper
- Times of India e-paper
- The Hindu Business Line e-paper
- Financial Express e-paper



Terrorism : A Challenge before Human Rights



दहशतवाद : मानवी हक्कांसमोरील आव्हान

Editor Prin. Dr. K. K. Deshmukh Dr. Pratap Phalphale

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International Conference on 'Terrorism 1 A Challenge before Human Rights'

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TERRORISM : A CHALLENGE BEFORE HUMAN RIGHTS

- Organized by -Shikshan Prasarak Sanstha's S.N.Arts, D.J.M. Commerce & B.N.S. Science College, Sangamner Dist. Ahmednagar (M.S.) Pin- 422 605 Faculty of Social Sciences

Dr. Pratap J. Phalphale Co-ordinator

Dr. K. K. Deshmukh Convener

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Volume II

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International Conference on 'Terrorism : A Challenge before Human Rights'

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दहशतवादामुळे भारतीय अर्थव्यवरथेवर झालेले आर्थिक परिणाम अनंत श्रीराम राजंह

शायिन यासिन शेख आरबोएनवी कॉलेज, सीरामप् SIGN FORM DIFES

संपूर्ण जगाला भेडसावणारी गंभीर समस्या म्हाणून आज दहपतवादाकड माहल जात खड़ कारण निरपराघ लोकांचा वळी घेणे, स्त्रिया य लहान मुल. यावे अपहरण करणे, लोकांवर अल्याचार करणे बॉबरफोट घडवून आणणे, प्रस्त्राया धाक दाखवून विमान, प्रवर्धी माइदा पळवून अल्याचार करणे बॉबरफोट घडवून आणणे, धार्मिक स्वळांवर हल्ले करून लोकांच्या भावना नेणे, सामुदायिक हत्याकांड घडवून आणणे, धार्मिक स्वळांवर हल्ले करून लोकांच्या भावना दुखविने या सारख्या अमानुष मार्गांचा दहपतवादी अवलंब करित आहे. या दहपतवादी गट व संघटनांना मानवी जीवनातील नैतिक मुल्यांधी त्यांना काही दण घेणे नाही. जमामच्ये सर्वांत जास्त दहपतवाद प्रभावित देपामध्ये इराक, पाकिस्तान, अफ़गानिस्तान, भारत, येमन, सामालिया, नायजेरिया, थायलंड, रणिया आणि फिलिपाईन्स इत्यादी देवांचा समावेष डोता.

दहशतवादाचा अर्थ

दहपतवाद हा पब्द प्रथम 105 बी.सी. मध्ये रोम राज्यातील Cimbri दौळीने लोळांच्या मनात भीती निर्माण करण्यासाठी वापरला होता. 'दहपतवाद' हा पव्द 'लढण्यासाठी' म्हणजेव लॅटिन भारोतील 'Terrere' या पब्दाचा साधित रूप आहे. यावरून आपणास सामान्यताहा पुढील प्रमाण व्याख्या करता येईल.

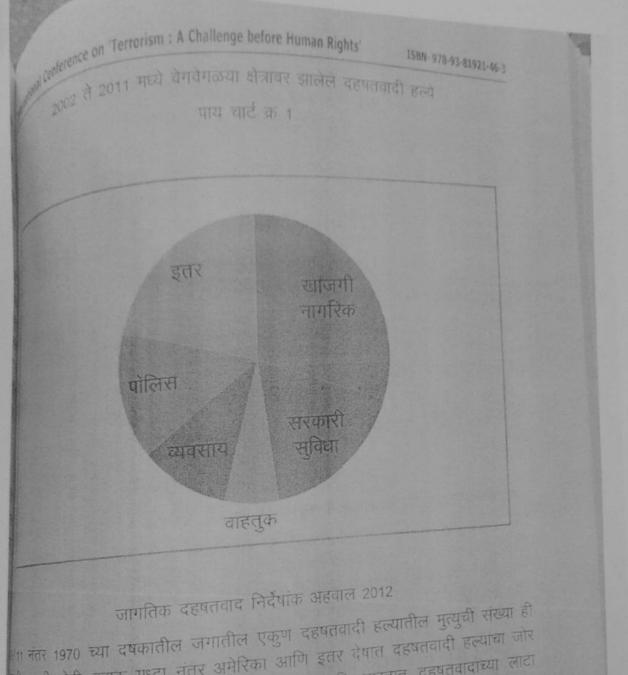
'समान्य लोकांच्या मनात दहपत अथवा भीती निर्माण करून आणि त्यांना वेठीस वरून आपले उद्दिष्ट साध्य करण्याचा काही गटांनी वालविलेला प्रयत्न म्हणजेब दहपतवाद होय.

जगातिल दहशतवाद प्रभावित क्षेत्र

जागतिक दहषतवादावा विचार केलातर असे दिसुन येत की, साधारण पण 2002 ते 2011 पर्यत दहषतवादी हल्ल्याचे प्रमाण वाढले आहे पण 2007 पासुन 2011 मध्ये दहषतवादचे प्रमाण कमी झाल्याचे जी.टी.आय च्या निर्देषांकात नमुद केले आहे. कारण 72 देषामध्ये दहषतवादाच्या हल्याचे प्रमाण वाढले आहे तर 63 देपामध्ये दहषतवादाच्या हल्याचे प्रमाण कमी झाले आहे. कारण गेल्या दोन वर्षाचा विचार केला तर आपणास लक्षात येईल की, 2007 मध्ये दहषतवादी हल्यात 10,000 लोकांच्या मृत्युची सख्या होती तर 2011 मध्ये हे प्रमाण कमी होवून 7,500 झाले होते तसेच 2009 मध्ये फक्त जखमींबी संख्या ही 19,000 होती तर 2011 मध्ये ही संख्या कनी तेवून 14,000 झाल्याचे विसुन आले. 2002 त 2011 मध्ये दहषतवादी हल्यात सर्वात अधिक हल्ये खाजगी नागरिक 29 टक्के, सरकारी सुविधा 17 टक्के, पोलिस 14 टक्के, आणि आष्ट्रार्थकाल्क म्हणजे लष्करी कर्मचारी 4 टक्के, वाहतुक 6 टक्के आणि व्यवसायावर 10 टक्के लक्ष्य केले आहे. तर धार्मिक, संस्था, उपयुक्त इतर खात्यांवर इत्यादी बाबीवर 20 टक्के लक्ष्य केले होते. हे पुढील पाय चार्ट क्र. 1 मध्ये दर्षविले आहे.

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नों राहली होती. इराक युध्दा नंतर अमेरिका आणि इतर देषात दहषतवादी हल्याचा जोर क गेला त्यानंतर पुढे अफगानिस्तान, पाकिस्तान आणि भारतात दहषतवादाच्या लाटा बिल्या 2002 ते 2011 मध्ये जगातील एकुण दहषतवादी हल्या पैकी 35 टक्के हल्ले इराक व कानिस्तानात झाले होते. इराक नंतर पाकिस्तान, भारत व अफगाणिस्तान या तीन देषात जन्म भोषांदाचे प्रमाण जारत आहे. जी.टी.आय. नुसार गेल्या दहा वर्षाच्या कालावधीमध्ये 158 देषा अस्त्र के भे अदेषात एकही दहषतवादी घटना घडलेली नाही. पण त्याच बरोबर इराक, पाकिस्तान, रिथम मि आणि अफगाणिस्तान या देषांना सगळयात जास्त दहषतवाद प्रभावित क्षेत्र म्हणून घोषित अग्रहे अग्रे से आहे 2002 पासुन 2009 पर्यंत इराक नंतर पाकिस्तान, भारत आणि अफगाणिस्तानात भारत आणि अफगाणिस्तानात भारत आणि आफ्रेगाणिस्तानात मिने 12 टक्के, 11 टक्के आणि 10 टक्के दहषतवादी घटना घडल्या आहेत. याच बरोबर भारत प्रिलेपाईन्स आणि राधियात अनुक्रमे 5 टक्के. 4 टक्के आणि 4 टक्के दहषतवादी घटना. भारत फिलिपाईन्स आणि राधियात अनुक्रमे 5 टक्के. 4 टक्के आणि 4 टक्के दहषतवादी घटना. भगलपाईन्स आणि रषियात अनुक्रमे 5 टक्के. 4 टक्क आणि 4 टपपन्सर आहेत. 2011 मध्ये सर्वात जास्त दहषतवादी प्रभावित दहा देषांनी मिळविलेले गुण पुढिल तो क्रें 1 मन्द्रे ल जं 1 मध्ये दर्षविले आहे. M Mis, D.J.M. Commerce & B.N.S. Science College, Sangamner 422 605 (M.S.) India

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2011 मध्ये सर्वति जास्त दहषतवादी प्रभावित दहा देष

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जागतिक दहषतवाद निर्देषांक अहवाल 2012

दहशतवादामुळे भारताच्या अर्थव्यवस्थेवर झालेले आर्थिक परिणाम

भारत 1970 पासुन तर आज पर्यंत नक्षलवादी आणि दहषतवादी हल्यामुळे त्रस्त आहे. भारतातील पंजाब, जम्मु—काष्मीर, 1993 मुंबई साखळी बॉम्बरफोट, मुंबईतील 26 / 11 चा हल्ला, पुणे येथील साखळी बॉम्बरफोट, बुध्दगया येथील बॉम्बरफोट, गडचिरालीतील नक्षलवादी हल्ले आणि देषातील इरत अनेक भाग दहषत ग्रस्त आहे. यामुळे भारताव्या अर्थव्यवस्थेवर वाईट परिणाम झालेले आहे. ते पुढील मुद्द्याच्या आधारे स्पष्ट करता येईल.

• पर्यटन क्षेत्रावर झालेला परिणाम

जगातील सर्वात मोठा निर्यात उक्योग म्हणून पर्यटन क्षेत्राकडे पाहिले जात आहे कारण जगातील एकुण निर्यातीत पर्यटनाचा हिस्सा हा 12.2 टक्के आहे. जागतिक रोजगारामध्ये पर्यटनाचा हिस्सा हा 8.1 टक्का आहे. सध्या भारताच्या जी डी.पी मध्ये प्रत्यक्ष व अप्रत्यक्ष पर्यटन क्षेत्राचे योगदान हे 6.8 टक्केच्या जवळपास आहे. या व्यवसायामुळे भारतात जवळपास 11 टक्के रोजागार निर्माण होतो आणि या व्यवसायापाराून 2012 मध्ये 17 74 अरब डॉलर अर्जित विदेषी मुद्रा भारताला मिळाल्या आहेत. यामुळे भारतीय अर्थव्यवस्थेला चालणादेण्याचे काम पर्यटन क्षेत्र करित आहे. यामुळे भारतातील पर्यटक आणि हॉटेल्स व्यवसायावर हल्ला करून भारतीय अर्थव्यवस्थेला खिळ बसविणे आणि भारतात येणारे पर्यटकांना धाबरविणे या हेतुने 26 नोव्हेंबर 2008 रोजी दहषतवादी संघटनेने भारतावर हल्ले केले होते.

भारतात गोवा या ठिकाणी सर्वात जास्त पर्यटक येतात. दुर ऑपरेटर्स यांच्या अहवालानुसार 2007-08 मध्ये 25 लाख पर्यटक आले होत. तर 26 / 11 च्या हल्या नंतर 2008- 09 मध्ये यात

S.N. Arts, D.J.M. Commerce & B.N.S. Science College, Sangamner 422 605 (M.S.) India

sterence on 'Terrorism : A Challenge before Human Rights'

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मान प्राह-93-81921-46-3 इस पर्यटक आले. म्हणजे 26 / 11 च्या हल्या नंतर ही मोठ्या प्रमाणात पर्यटक अपूर्ण या वेळेसची परिस्थिती थोडी वाईट आहे काजग का हल्या नंतर ही मोठया प्रमाणात पर्यटक होते यण या वेळेसची परिस्थिती थोडी वाईट आहे. कारण 4 लाख पर्यटक कमी हतान दिमान वाहतुक, हॉटेल्स, वैद्यकिय आणि पर्यटन सेनान करण कारण 4 लाख पर्यटक कमी तिमान वाहतुक, हॉटेल्स, वैद्यकिय आणि पर्यटन क्षेत्रावर झाल्याचे लक्ष्यात समारे 80 टक्के आरक्षण रद्दवातल झाले त्याच कोक कि ्रहेल्ली सुमारे 60 टक्के आरक्षण रद्दवातल झाले. त्याच बरोबर प्राव्याचे लक्ष्यात हेटेल्सचे सुमारे 60 टक्के आरक्षण रद्दवातल झाले. त्याच बरोबर प्रविचम भारतातील हर्डदे त्यांची खाली आले. यामुळे या व्यवसायात काम करणाऱ्या लोकांना मोठ्या स्व विक्रमानी सहन करावा लागला. आय ए टी ओ च्या पते पर्य स्ट न् नुकसान सहन करावा लागला. आय.ए.टी.ओ च्या मते पर्यटक कमी होण्याच्या जेक प्रमाण हे दहघतवादी हल्याचे होते. हॉटेल्य प्रयोगपर कमी होण्याच्या ्रिक प्रमाण हे दहवतवादी हल्याचे होते. हॉटेल्स उद्योगात 40 टक्के, वैद्यकिय के महसल कमी झाले होत ही बाब आएनापणी जांगरी के बिद्यके, वैद्यकिय क रहे हक्के महसुल कमी झाले होत ही बाब भारतासाठी चांगली नाही

इंडर बाजारावर झालेला परिणाम र हन्याचा मुंबई घेअर बाजारवर वाईट परिणाम झाला. कारण 26/11 च्या हल्यामुळे हरे देन बाजाराचा निर्देषांक 1.5 टक्क्यांनी खाली आला आणि 0.7 टक्क्याच्या जवळ त्व 135 अधानी उघडला. यात विदेषी गुंतवणुकदाराचे 56 टक्क्यांनी आणि ताजमहाल द्वा टक्क्यांनी घेअर किंमत उतरले होते. पण दहषतवाद रोखण्यासाठी केलेल्या कर्ण भरतीय कॉपरिटर स्पेक्ट्रम मर्यादित व्यवसायावर याचा तात्पुरता परिणाम होईल रेडक आहे. कारण भारतीय लोकषाही परंपरा ही दहषतवादाला प्रतिकार करण्यासाठी मतबुत आहे. आज संपुर्ण जग हा जागतिकीकरणात चपापत आहे आणि भारत हा क अर्थव्यवस्थेतला महत्त्वाचा खेळाडू ठरला आहे. यात घंका नाही.

द्वातीन आर्थिक नुकसान

इङ्ग्वादी हल्यामुळे इमारतीचे, पायामूत सुविधा, स्ट्रक्चरल इत्यादीचे नुकसान मोठवा लइ हे आहे. विमा उदयोगानुसार एकुण नुकसान 500 कोटीचे आहे, असे सांगतात. तसेच इन रक्टम 320,700,000,000 ऐवढी आहे आणि ही रक्कम जगातिल सुरक्षा सर्वाधिक खर्च रुख देशच्या यादित भारताचा 9 वा क्रमॉक लागतो. यामुळे इतर विकासासाठी आवषक

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मराठी विभाग आयोजित

'राष्ट्रीय परिषद'

'आंतरविद्याशाखीय संशोधन : स्वरूप आणि संधी' (दि. २२ व २३ हिमॅबर २०१५)

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प्राचार्य हॉ, भाऊसाहेब कराळे

संपादक मंडळ

प्रा.डी. संजय नगरकर समन्त्रयथः (मराठी)

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संशोधन पध्दतीत सामाजिक शास्त्र व माहिती प्रणालीचे महत्त्व : एक विश्लेषण

प्रस्तावनाः

मानवाला आजदेखील संपूर्ण वस्तु किंवा घटनांच्या संदर्भात सर्वच गोष्टी माहित नाही. म्हणून झोध घेण्याचे मानवाचे प्रयत्न निरंतर सुरु आहेत. ज्ञानाची वृध्वी करणे, अस्पष्ट ज्ञानाचे स्पष्टीकरण करणे, विद्यमान ज्ञानाची सत्यता पडताळुन पाहणे हे मानवाच्या या प्रयत्नाचे उदेश आहे. मानव हा जिज्ञासुयुत्तीचा आणि वृध्वीजीवी प्राणी असल्यामुळे तो सनव हा जिज्ञासुयुत्तीचा आणि वृध्वीजीवी प्राणी असल्यामुळे तो सतत नवनवीन गोष्टींचा शोध घेत असतो. शास्त्रीय संशोधनात निरीक्षण करुन आपल्या विशिष्ट विषयासंवर्भात ज्ञान प्राप्त करणे व कार्यकारण भावामुळे त्या तथ्याचा अर्थ, पारंपारिक संबंध आणि विद्यमान वैज्ञानिक ज्ञानाशी त्याचा संबंध निश्चित करणे हे शास्त्रीय संशोधनाचे दोन आवश्यक तत्व आहे. जं. डळ्यु. वेस्ट यांच्या मते संशोधन म्हणजे वैज्ञानिक पध्वती प्रत्यक्ष कार्यान्वित करण्याची सुव्यवस्थित व नियमबच्द अभ्यासण्याची प्रक्रिया होय.

कोणत्याही वेशाचा आधिक विकास घडुन येण्यासाठी संशोधनाचे महत्त्व अनन्य साधारण आहे. नैसर्गिक साधन संपत्तीची पुरेपूर वापर करण्यासाठी गुणात्मक व कार्यक्षम संशोधनाचे महत्त्व वाढत आहे. भारताव सतत भेडसावणा-या अनेक समस्यांवर उपाययोजना स्चविण्यासाठी संशोधनाचे समाज जीवनावर परिणाम दिसून येते

ज्ञोध निबंधाची उहिष्ट्ये :

१. सामाजिक संशोधनाची संकल्पना अभ्यासणे.

२. संशोधन पष्टतीत सामाजिक शाखांचा विविध क्षेत्रातील संशोधनाचे कार्य व महत्व अभ्यासणे.

 सामाजिक संशोधनात माहिती प्रणालीच्या साधनांचा वाढीचा अभ्यास करणे. शोध निवंधाची गृहीते :

१. संशोधन पध्वतीत सामाजिक शास्त्राच्या महत्त्वात सातत्याने वाढ होत आहे.

२. सामाजिक संशोधनात वाढत्या माहिती प्रणालीमुळे संशोधन कार्यात अनुकुल परिणात होतात. संशोधन पध्वती :

प्रस्तुत शोध निबंधात विश्लेषणात्मक संशोधन पध्वतीचा उपयोग केला असून शोध निबंधातील विवेचन दुख्यम साधन सामग्रीवर अवलंबून आहे. यासाठी विविध संदर्भ ग्रंथ, पुस्तके, मासिके, अहवाल, वृत्तपत्रे, संकेतस्थल (वेवसाईट) इत्यादींचा उपयोग केला आहे. अभ्यास विषयाचे महत्त्व :

कोणत्याही देशाच्या अर्थव्यवस्थेसमोर अनेक समस्या असतात. उदा. दारिद्र्य, चेरोजगारी, आर्थिक विषमता इतवी समस्यांमुळे समाजजीवनावर विपरित परिणाम दिसून येते. त्यावर उपाययोजना सुचविण्यासाठी देशाचा आर्थिक विकास होण्यासाठी संशोधन पश्वतीत सामजिक शास्त्राचे कार्य / महत्त्व व माहिती प्रणालींचे परिणाम कसे होतात याचा अभ्याम ''संकोधन पध्वतीत सामजिक शास्त्र व माहिती प्रणालीचे महत्त्व : एक विश्लेषण'' हा विषय निवडला आहे. सामाजिक संशोधनाची संकल्पना : (Nature of Definition of Social Research)

स्वरुप : समाजीवनातील घटना, परिस्थिती आणि समस्या यांचे वैज्ञानिक पध्वतीच्या आधारे विवेचनात्मक आणि विश्लेषणात्मक क्रमबध्द शोधकार्य करणे यास 'सामाजिक संशोधन' संबोधले जाते. वैज्ञानिक निरीक्षण, वर्गीकरण आणि निर्वाचन करुन सामाजिक जीवनाच्या संबंधामध्ये सत्याचा शोध घेण्याची अध्ययनशिलता जोपासणे आणि नवीन ज्ञानप्राप्ती

व्याख्या : मी.ए. मोझर (C.A. Moser) :

"सामाजिक घटना आणि समस्यांबाबत नवीन ज्ञान प्राप्तीकरीता करण्यात आलेल्या व्यवस्थित संशोधनाला आपण सामजिक संशोधन म्हणतो.''

संशोधन पध्वतीत सामजिक शास्त्राच्या विविध क्षेत्रातील संशोधनाचे कार्य / महत्त्व :

ऐतिहासिक संशोधन : (Historical Research) ऐतिहासिक संशोधन हे देखील मामजिक संशोधनातील एक महत्त्वाचे अध्ययन क्षेत्र आहे. यामध्ये फक्त इतिहास याच विषयाचे संशोधन केले जात नसून अन्य सर्व सामाजिक विषयांच्या ऐतिहासिक समस्यांचे संशोधन केले जाते. भूतकाळातील घटनांची अचुक माहिती मिळविणे हा ऐतिहासिक संशोधनाचा मुख्य उद्देश आहे. इतिहासात केवळ राजकीय इतिहास नसून शैक्षणिक, व्यवस्थापन. सामाजिक व सांस्कृतिक या सारख्याच सर्वच विद्याशाखांना असणा-या इतिहासाचे संशोधन व्यापक आहे. प्रकाशित

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आणि अग्रकाशित अशा सर्व प्रलेखांमध्ये ऐतिहासिक घटनांचे विवरण असते असे प्रलेख हाव ऐतिहासिक संशोधनाचा आधार असतो. भारतात महात्मा गांधी, महात्मा फुले, गरुदेव रविंद्रनाथ टागोर, ध्यामी विवकानंद, डॉ. आबंडकर यासारख्या अनेक महत्त्वपूर्ण नेत्यांच्या कार्याचा अध्यास करून अनेक संशोधकांनी भारतीय शिक्षण पथ्वती समाज सुधारणा, राजकारण इत्यादी वाबन ऐतिहासिक संशोधन महत्त्वाचे आहे. तसेच भारतातील तक्षशिला, नालंदा, उद्यंतपुरी, नागार्जुन, बनारस हिंदू विद्यापीठही विद्यापीठे विशिष्ट उद्योग समुह, आकाशवाणी, दूरदर्शन, चित्रपट संस्था, नाट्य संस्था, सहकारी संस्था या सारख्या संस्था आणि संघटनांच्या उत्पत्ती आणि विकासाबावतचे संशोधन देतिहासिक पथ्वतीने करता येते. ऐतिहासिक संशोधनाद्वारे रुढी, परंपरा, प्रथा, चालीरिती, मुल्ये व आवर्श अज्ञा सर्व वरिवर्तनाचे वैज्ञानिक पथ्वतीने संशोधन करता येते.

- २. साहित्यातील संशोधन : (Research in Literature) : मानवी जीवनात साहित्य आणि कला यांना अतिशय महत्त्व आहे. मानवी मनाचा, विचारांचा, भावनांचा, सामाजिक आणि अन्य समस्सांचा अविष्ठार व्यवन करण्यासाठी विविध प्रकारच्या साहित्याची निमिती होत असते. सामाजिक समस्या हा साहित्याचा केंद्रविंदू आहे. साहित्य हे समाज सापेक्ष असते. समाजाच्या सुखवुःखाचे आणि धावभावनांचे प्रतिविंव हे साहित्यात उमटत असते. समाजातील वामिकता रुढी, परंपरा, तत्वप्रणाली, आचारविचार, संस्कार, संकेत, शिष्टाचार, व्यवहार या सर्व वार्वाचा लेखकावन प्रभाव पडत असतो. विसाव्या शतकात साहित्याचे समाजशास्त्र हे नवीन अध्ययनांचे क्षेत्र म्हणून विकसित झाले आहे. कारण सद्यस्थितीत समाजशास्त्रीय दृष्टीकोनातून साहित्याचे अध्ययन केले जाते. साहित्याचे वैद्यातिक पष्टवतीने अध्ययन करण्यासाठी स्वतंत्र संशोधन पध्वती विकसित झाली आहे. कोणतेही साहित्याचे वैद्यानिक पष्टवतीने अध्ययन करण्यासाठी स्वतंत्र संशोधन पध्वती विकसित झाली आहे. कोणतेही साहित्याचे वैद्यातिक पष्टवतीने अध्ययन करण्यासाठी स्वतंत्र संशोधन पध्वती विकसित झाली आहे. कोणतेही साहित्याचे हे माधेच्या माध्यमातून निर्माण होत असते. भाषा ही एक अत्यंत महत्त्वाची मानबी संस्था आहे. विशेष म्हणाजे मानवी संस्कृतीच्या विकासावरोवय वाध्यमातून होत असते. म्हणून भाषेचा अभ्यास हा सामाजिक शास्त्रत अतिशय महत्त्वाचा असा साहित्य नंवायांवा वाध्य आहे. भाषेची निर्मिती, धारणा, जन्म काळ इत्यादींचा यात अभ्यास केला जातो. धर्मविचार, तत्वज्ञात, नीतीशास्त्र, लोकप्रवृत्ती इत्यादी विषयांचे संशोधन हे साहित्यातील संशोधन आहे. अशा संशोधनवरुन विशिष्ट वाती-जमातीच्या सामाजिक, सांस्कृतिक आणि ऐतिहासिक जीवनाचा शोध घेता येतो. तसेच लोक साहित्याची भाषा, बोली इत्यादींचा अभ्यास करता येतो.
- तौक्षणिक संशोधन : (Educational Research) : शैक्षणिक संशोधन हे शिक्षण क्षेत्रशी संबंधित आहे. यत शिक्षणाची उद्दिष्ट्ये, अभ्यासक्रम, अध्ययन आणि अध्यपन पच्चती मुल्यमापन, विद्याव्यांच्या समस्या, शिक्षकांच्या समस्या, व्यवस्थापनाच्या समस्या, विविध संकल्पना, शैक्षणिक साहित्यतंत्र, पाठ्यपुस्तके, शैक्षणिक वातावरण, शैक्षणिक धोरण इत्यादी बार्वीचा समावेश होतो. या सर्व बार्वीचा वैज्ञानिक पध्चतीने अध्ययन आणि संशोधन करून शैक्षणिक धोरण इत्यादी बार्वीचा समावेश होतो. या सर्व बार्वीचा वैज्ञानिक पध्चतीने अध्ययन आणि संशोधन करून शिक्षण क्षेत्र हे समाजाच्या प्रगतीसाठी सहाय्यक केले जाते. कारण शिक्षण क्षेत्र हे पायाभूत क्षेत्र आहे. त्यामुळे सामाजातील अन्य सर्व क्षेत्रेसुध्वा समाजाच्या उन्नतीसाठी फलवायी उरतात. शैक्षणिक संशोधनाह प्रायुख्याने प्रेरणा समाजातील अन्य सर्व क्षेत्रेसुध्वा समाजाच्या उन्नतीसाठी फलवायी उरतात. शैक्षणिक संशोधनाह्य पुख्य आधार आहे. आणि नीतीशास्त्राच्या समस्यांशी संबंधीत आहे. सामाजिक व्यवहार हाच शैक्षणिक संशोधनाचा मुख्य आधार आहे. आणि नीतीशास्त्राच्या समस्यांशी संबंधीत आहे. सामाजिक व्यवहार हाच शैक्षणिक संशोधनात्वा समस्यंच्या तत्वज्ञान, समाजशास्त्र, पानसशास्त्र, इतिहास, राज्यशास्त्र, अर्थशास्त्र, व्यवस्थापनशास्त्र, वाणिच्य इत्यादी सर्वच तत्वज्ञान, समाजशास्त्र, पानसशास्त्र, इतिहास, राज्यशास्त्रीय संशोधन कराते. शैक्षणिक संशोधनात समस्यंच्या कारणांचे विश्लेषण, परिणामांचे अनुमान, समस्येच्या निराकरणासाठी उपाययोजना, त्यांचा उपयोग, अनुभजांचे कारणांचे विश्लेषण, परिणामांचे अनुमान, समस्येच्या निराकरणासाठी उपाययोजना, त्यांचा उपयोग, अनुभजांचे मुल्यमापन हे शैक्षणिक संशोधनातील महत्त्वाचे रप्प आहेत. इतर प्रगत राष्ट्रांच्या तुलनेत भारतात शिक्षण क्षेत्रतील पंशोधनात्या वरीग अध्रित झाल्पी. इ.स. १९६६ मध्ये राष्ट्रीय प्रकल्य सहाय्य योजना, विभागीच शिक्षण संशोधनात्य वेत्री, राष्ट्रीय शिक्षण संस्था, विधाविषयक विभाग आणि सेवा तसेच निर्पिती विभाग, राज्यशिक्षण संस्था, महाविद्यालये, राष्ट्रीय शिक्षण संस्था, विधाविपयक विभाग आणि सेवा तस्यांद्वारे शिक्षण क्षेत्रात व्यापक संशोधन कार्य विद्यापीठ अनुदान आयोग, उच्च शिक्षण अभ्यास केंद्राची या सर्व संस्यांद्वारे शिक्षण क्षेत्रात व्यापक संशोधन कार्य विद्यालेट अनुदान आयोग, उच्च शिक्षण अभ्यान स्वान्य सात्रास
- होण्याम प्रतिसाहन मिळते आहे. ४. सामाजिक संशोधन (Social Research) : मनुष्य आणि त्याची सामाजिक वर्तणुक या संबंधीचे नियम शोधून अढणे हा सामाजिक शास्त्राचा उद्देश आहे. मनुष्य हा केंद्रविंदू मानून सामाजिक संशोधन केले जाते. यामध्ये काढणे हा सामाजिक शास्त्राचा उद्देश आहे. मनुष्य त्याची मानसिक स्थिती आणि वर्तणुक हे सामाजिक शास्त्राचे मानसशास्त्रीय संबंध शोधून काढला जातो. मनुष्य त्याची मानसिक स्थिती आणि वर्तणुक हे सामाजिक शास्त्राचे मानसशास्त्रीय संबंध शोधून काढला जातो. मनुष्य त्याची मानसिक स्थिती आणि वर्तणुक हे सामाजिक शास्त्राचे मानसशास्त्रीय संबंध शोधून काढला जातो. मनुष्य त्याची मानसिक स्थिती आणि वर्तणुक हे सामाजिक शास्त्राचे माल्यास्त्राचा अध्यास विषय समाज हा असल्यामुळे त्यात नुलमात्मकदृष्टशा कमी अचुकता असते.

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- ५. भौतिक संझोधन (Physical Research) : निसगति असणा-या विविध घटकांसंबंधी भौतिक नियम झांधून काढणे हा भौतिक शास्त्रांमध्ये संशोधन केले जाते. भौतिक शास्त्रातील मूलभुत घटकांचे विदलेषण करना येते. भौतिक संशोधनामध्ये वस्तुनिष्ठतेचे प्रमाण जास्त असल्यामुळे भौतिक शास्त्राचे अंदाज तुल्तनात्मकदृष्ट्या जास्त निदिचन असतात. मापन विषय समस्या फार्र्या निर्माण होत नाहीत. भौतिक संशोधनामध्ये अम्यास करण्यासाठी त्यांच्या प्रयोगशाळा सिध्द असतात.
- ६. वैज्ञानिक संशोधन (Scientific Research) : वैज्ञानिक पध्यतीने जसे भौतिक विषयांचे संशोधन केले जात तसेच सामाजिक विषयांचे सुध्दा संशोधन केले जाते. म्हणूनच विज्ञान आणि वैज्ञानिक पध्दती हा अध्ययनाचा सर्वव्याप्त विषय झाला आहे. विज्ञानाला कोणत्याही विषयाची मर्यादा नाही. संशोधन विषयाशी संबंधीत सर्वसामान्य नियमांची मांडणी करण्यासाठी तथ्य निर्धारण, क्रमबध्व वर्गीकरण, परिक्षण, सत्यापन आणि निर्वाचन करण्याच्या शास्त्रशुध्व प्रक्रियेला वैज्ञानिक पध्दत म्हणतात.
- ७. सांख्यिकीय संशोधन (Statistical Research) : सांख्यिकी हे एक शास्त्र आहे. सांख्यिकी म्हणजे तथ्याचे विरलेषण तसेच त्यावरुन काढलेले निष्कर्ष यांचे शास्त्र होय. कोणत्याही सामाजिक घटनांचे यथार्थ अध्ययन करण्यासाठी सांख्यिकीचा उपयोग केला जातो. सामाजिक शास्त्रातही सांख्यिकी पध्वतीचा वापर केला जातो. म्हणून त्यास सामाजिक सांख्यिकी म्हटले जाते. सांख्यिकीम्ळे जटील तथ्यांना सरळ व व्यवस्थित रुप देता येते. संशोधनात केंद्रीय प्रवृत्तीचे मापन करण्यासाठी सांख्यिकी पध्वतींचा विशेष उपयोग केला जातो.
- ८. इतर शास्त्राचे संशोधन : संशोधनावरीली सर्व क्षेत्राचे महत्त्व अनन्यसाधारण आहे. याव्यतिरिक्त इतर शास्त्राचे योगवान ही महत्त्वपूर्ण मानले जाते. उदा, अर्थशास्त्रात समाजातील कोणत्याही समस्यावर उपाययोजना सुचविण्यासाठी किंवा संशोधनासाठी त्या विषयाला पैशांशी संबंधित असते. त्यामुळे संशोधनात नेमकेपणा येतो. तर भुगोलामुळे संशोधनाला क्षेत्र अभ्यासासाठी कोणते भौगोलिक क्षेत्र निवडणे सोपे जाते. त्यामुळे संशोधन कार्य व्यापक न होता घेतलेल्या कालावधीत पूर्ण होऊ शकते. तसेच संशोधनात राजकीय पैलूंचा विचार राज्यशास्त्रात केला जाता. व सांस्कृतिक व सामाजिक जिवनाचा अभ्यास केला जातो. अशा प्रकारे सामाजिक शाखातील विविध क्षेत्राचे कार्य व महत्त्वात सातत्याने वाढ होत आहे. हे वरील घेतलेले गृहितकृत्य सत्य असल्याचे दिसून येते. सामाजिक संशोधनात माहिती प्रणाली :

संशोधनात माहितीचे महत्त्व आहे. माहितीच्या आधारावरच सिध्दान्त मांडणे शक्य होते. माहिती मिळविण्यासाठी तसेच तिचे व्यवस्थापन करण्यासाठी माहिती प्रणालीची आवश्यकता असते. कोणत्याही प्रकारचे संशोधन करताना माहिती गोळा केली जाते. अशी माहिती व्यवस्थितरित्या साठवून ठेवणे महत्त्वाचे असते. कारण संशोधकाला कोणत्याही वेळी या माहितीची गरज भास राकते. त्याकरिता विविध साधनांचा वापर केला जातो. ते पुढीलप्रमाणे :

- १) माहिती प्रणालीत संगणकाचा उपयोग : संगणक हे एक अद्भूत यंत्र असून ते संख्या, शब्द, चित्राच्या रुपातील माहिती स्विकारणे, संचय करणे, उपयोग करणे आणि माहिती देणे इत्यादी कार्य करते. संगणकाचे शैक्षणिक, वाणिज्य, औद्योगिक प्रशासकीय, वैद्यकिय, सामाजिक, आर्थिक आणि इतर अनेक संघटना मोठ्या प्रमाणात संगणकावर अवलंबून आहेत. कारण त्यामुळे वेळेची बचत होते. तथ्य संस्करणात उपयोगी. श्रमाची बचत, सोपी व सुलभ गणना, सादरीकरणात उपयोग तथ्य संकलीन व विश्लेषण क्रांतीकारक बदल तंत्रज्ञान इत्यादीमुळे माहिती प्रणालीत संगणकाचा वापर वाढता दिसून येतो.
- २) माहिती प्रणालीत इंटरनेटचा उपयोग : इंटरनेटच्या वापरामुळे जग छोटे वनले आहे. इंटरनेटचे जाळे संपूर्ण जगभर पसरलेले असते. इंटरनेटदारे आपणास एका ठिकाणाहून जगातील कोणात्याही देशातील कोणत्याही एका ठिकाणी किंवा खेड्यातील व्यक्तीवरोबर संपर्क साधता येतो व माहितीची देवणा-घेवाण करता येते. इंटरनेटद्वारे एका क्षणात हवी ती माहिती उपलब्ध होते. इंटरनेटमुळे वेबपेजेस पाहता येतात. संपर्क साधता येतो,मासिके, पुस्तके वाचणे, कॉम्प्युटर प्रोग्राम्स मिळवता येतात. जाहिरात व विक्री संदेश पाठविणे, कार्यालयीन कामे, डाऊनलोडींग, क्लॉरज, मेल्स इत्यादी फायदे इंटरनेटमुळे दिसून येतात.

अशा प्रकारे सामाजिक संशोधनात वाढत्या माहिती प्रणालींमुळे संशोधन कार्यात अनुकूल परिणाम झालेला दिसन येतो. हे वरील घेतलेले युहितकृत्य सन्य असल्याचे दिसून येते.

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सारांश :

Interdisciplinary Research: Nature & Opportunities"

संशोधन हे संपूर्ण विद्वामध्ये केले जाते. त्यामध्ये विभिन्न शास्त्र, क्षेत्र असून त्यामध्ये सामाजिक समस्यांचे स्विर्यास करण्यासाठी जपाययोजना सुचविल्या जातात. त्यामध्य विभिन्न होस्त, क्षत्र असून त्यामध्य तानाः अन्तिर्यास इन्द्र को जित्र होडविज्यास मदत होते. माहिती प्रणालीमुळे संशोधनात जलव गतीने पूर्ण केले जाते. यासारखे महत्व संशोधनामुळे दिसून येते. अशा प्रकारे सामाजिक संशोधनामुळे ऐतिहासिक साहित्य, शैक्षणिक, सामाजिक, भौतिक, वैज्ञानिक. साख्यिकीय व माहिती प्रणाली इत्यादीचा संशोधन कार्यातील महत्त्वाचे योगवान दिसून येते.

- सामाजिक संशोधनामध्ये समाज हा महतव्यपूर्ण घटक आहे.
- २. संशोधन पध्वतीत सामाजिक शाखाच्या ऐतिहासिक संशोधन, साहित्यिक संशोधन, शैक्षणिक संशोधन, सामाजिक संशोधन, भौतिक संशोधन, वैज्ञानिक संशोधन, साखिपकीय संशोधन इत्यादीचे कार्य महत्त्वपूर्ण दिसन येते.
- वावल्या संशोधन कार्यामुळे समाजातील समस्याचे निराकरण होण्यास मदत होते.
- वाडत्या संशोधन कार्यात माहिती प्रणालीत संगणक व इंटरनेटचे महत्त्व दिवसेंदिवस वाढत आहे.
- ५. वाडल्या संशोधन कार्यामुळे लोकांच्या राहणीमानाचा दजी उंचविण्यास व आर्थिक पिळवणुकीवर प्रतिवंध करण्यावर मदत झाली आहे

संदर्भ ग्रंथ :

- १. प्रा. डॉ. ह.श्री. साने, सामाजिक शास्त्रे आणि साहित्य : अंत:सबंध, प्रतिमा प्रकाशन, पुणे (१९९५).
- २. डॉ. रा.र. बोरुडे, संशोधन पध्वतीशास्त्र, पुणे विद्यार्थी गृह प्रकाशन, पुणे (२००५).
- प्रा. डॉ. सुनील मायी, सामाजिक संशोधन पध्वती, डायमंड पब्लिकेशन्स, पुणे (२००८).
- ४. प्रा.एम.एन. गंदेवार, समाजशास्त्रीय संशोधन पथ्वती, विद्याभारती प्रकाशन लातूर.
- ५. डॉ. सुमन बेहरे, सामाजिक संशोधन पथ्वती, विद्या प्रकाशन, नागपूर (१९९८).
- ६, प्रा. सुधीर बोधनकर, प्रा. विवेक अलोणी, ॲड. मृणाल कुलकर्णी, सामाजिक संशोधन पथ्वती, श्री माईनाथ
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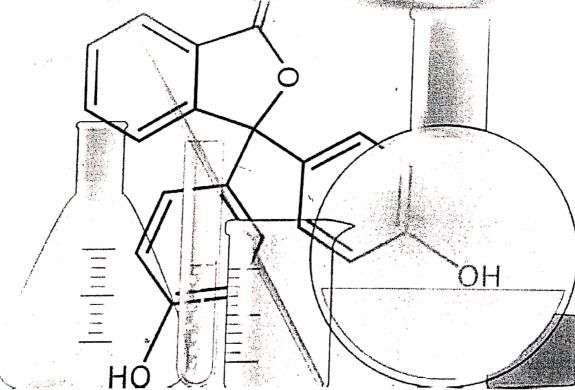
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CONVERSION OF MACRO ELEMENTAL STATE OF IRON INTO MEDICINALLY IMPORTANT NANO BHASMA STATE THROUGH ANCIENT AYURVEDIC PROCESSES

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ABSTRACT:

Ayurvedic system of medicine includes an important class of drugs of mineral origin under which there is as subclass known as ayurvedicbhasmas. These are derived from metals like gold, silver, copper, iron, lead, supreme medicines due to their extraordinary medicinal properties. However, according to the modern science, heavy metals referred above are difficult to absorb at cellular levels and therefore are toxic and harmful to human bodies. As against this according to anurved, all these elements, after ayurvedic processes of bhasmikarananot only lose their toxicity but miraculous medicinal properties are induced when they are transformed into what is called as bhasma state. In an attempt to elucidate the exact nature of this bhasma state, we found that a genuine ayuvidicbhasma possesses two characteristics (i) extremelytiny particle size, tending to nano level of the order of 20-90 nm and (ii) attachment of an organic components to these nanosizedbhasma particles. These findings are expected to be useful to throw light on the medicinal potential of ayurvedicbhasma.

INTRODUCTION:

Ayurved firstly introduced the concept of "Bhasma" in its medicinal system. Originally, ayurvedic system of medicine was mostly restricted to medicinal plants (vanaushadhi) and to, some extent to animal products such as cowurine, cowdung, cowmilk, honey etc. Later on metal-based bhasmas were introduced and subsequently they constituted the most important class of drugs of mineral origin.

The art and sciene of ayurvedicbhasmas in general and metal-based bhasmas in particular is the subject of "ayurved rasashastra",

which is an extremely important and interesting branch of ayurved. The origin, history, developments in ayurvedrasashastra is itself an attractive and promising area for research especially for chemists. Research in this subject will be also relevant and encouraging in coming years because ayurved and ayurvedic medicines will receive more and more appreciation and importance all over the world. Metal-based ayurvidic drugs being the superior drugs3 as compared to all other classes of drugs, there is an excellent opportunity to rejuvenate this original art with the help of modern scientific developments. The present work is an attempt from this point of view.

SYNTHESIS AND CHARACTERIZATION OF METALLICBHASMAS:

Synthesis of Metallic Bhasmas.

Preparation of bhasma is an elaborate process involving shodhana, marana and bhasmikarana. The classical texts of Ayurveda prescribe in detail these processes. Metals are first purified through a process called shodhana, during which the metal is repeatedly heated and then cooled in herbal extracts. This is fillowed by bhasmikarana where, the shodhit metal is repeatedly triturated with herbs (bhavana) and calcinated in closed earthen crucibles in a pit, by buringcowdung cakes (a Process called puta), to obtain bhasma. The size of pit, the number of cowdung cakes to be used to obtain a specific temperature and duration of heating are specified in detail in standard ayurvedic texts. This process is repeated as many times as prescribed in classical texts for each preparation. Thus we have dashaputa (10 cycles), shataputa (100 cycles), Sahastraputa (1000 cycles) etc. to ensure that the

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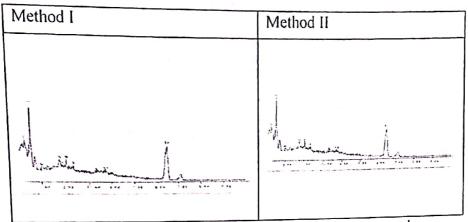


Figure 1.1 E-DAX patterns of the two lohabhasma samples.

ie 1.1 Chemical Composition by E-DAX

Method	С	0	Fe	AI	Si	Cr	К	S	Ca
Method I	30.40	28.07	35.60	0.40	1.02		0.15	0.58	1.91
Method II	36.93	28.30	29.14		0.77	3.43	1.17	0.26	
			_				-		

ase analysis by XRD and partile size determination

The investigations were done to examine the crystalline modifications of iron oxides. The XRD terns were recorded on Phillips X-pert Pro Powder diffratometer in the diffraction range (10.90)2. by e Scherrer equation was used to calculate mean crystallite size.

The XRD patterns with relevant details are shown in Fig. 2.2 while the results of phase analysis d particle size determination are shown in Table 2.2

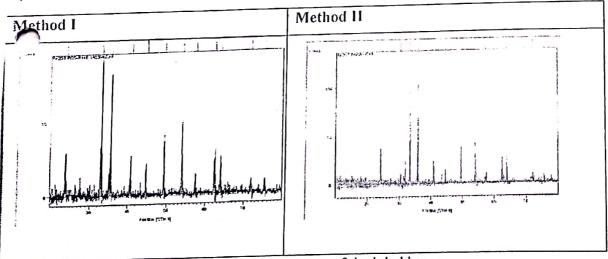


Figure 2.2 XRD patterns of the lohabhasma

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silicates; carbonates or phosphates are not known to possess significant medicinal properties and also they are not assimiable to human bodies. But when they are transformed info their bhasma state miraculous medicinal properties are claimed to be induced in them. Two major factors seem to be responsible for induction of tremendous medicinal potential in the bhasma state. These may be (a) extremely tiny size tending to nanolevel (10-90 nm) of the bhasma particles and (b) organic component imparted to these tiny bhasma particles.

In the present work, encouraging experimental evidence is obtained in favour of both these factors. Similar results and evidence is obtained in metallic bhasmas derived from copper, gold, tin and zinc. These result and evidences are expected to be useful to throw some light on the nature of ayurvedicbhasmas and their claimed extraordinary medicinal properties.

REFERENCES:

- S.B. Kulkarni Dudhgaonkar Rasarattnasumuccya Shivaji University, Kolhapur publication (1970)
- 2. PanditKashinathShastri, RAstarangini (Hindi) MotilalBanarasidasDehli (2004)
- MrudulaWadekar, YogeshBendale, B.A. Kulkarni, C.V. Rode and AsmitaPrabhune. Supremacy of Metal-Based AyurvedicBhasmas and Their Globalization. 2nd World Ayurved Congress, University of Pune, (2006)
- 4. M.P. Wadekar, C.V. Rode, Y.N. Bendale, K.R. Patil and A.A. Prabhune preparation and characterization of copper-based Indian Traditional Drugs TamraBhasma journal of pharmaceutical and Biomedical Analysis 39, 951 (2005)
- M.P. Wadekar, C.V. Rode, Y.N. Bendale, K.R. patil, A.B. Gaikwad, A.A. Prabhune Effect of calcinations cycles on the preparation of tin oxide based traditional drugs. Studies of its formation and characterization J. of pharmaceutical and biomedical Science, 41 1473-1478 (2006)
- 6. Bhawat M, Kashalkar R.V. Bhave A.S., Vidya S.S. and ramaswami v Preparation and structural characterization of jasadBhasma Indian Drugs, 41(1) January 12-18 (2004)
- Rupali M. Lad Chemical and Biochemical studies of some Iron based Ayurvedic Drugs ph.d Thesis, BharatiVidyapeeth Deemed University pune (2009).
- S. Pandit, t.K. Biawad, D.K. Debnath, A.V. Shaha, V. Choudhary Chemical and pharmacological evolution of different ayurvedicpreparation of Iron. J. Ethanaopharmacol 65, 149-56 (1999)
- 9. S.S. Kadam, R.W. Jawale, V.V. Dhapte, M.P. Wadekar, S.T. Takaleand B.A. Kulkarni characterization of NanometricAyurvedicBhasmas as Regenerative Drugs. International conference of Nanomedicine, Tanjaver, India. 2007
- T.K. Bowmick, A.K. Suresh, S.G. Kane, A.C. Joshi and J.R. Bellare. Physico-chemical characterization of an Indian Traditional Medicine JasedBhasma, Detection of nano particles containing non-zinc oxide J. Nanopart. Res 11,655-664 (2009)
- Shivaji T. Takale Comparative Study of Metal Based AyurvedicBhasmas and corresponding metal oxides Ph.D. Thesis, BharatiVidyapeeth Deemed University pune (2010)
- 12. MrudalaWadekar, Vis was Gogte, Prasad Khandagale and AsmitaPrabhune. comparative study of some commercial samples of Naga Bhasma Ancient Science of life Vol, XXIII (4) (2004)
- 13. MrudalaKulkarni, G.T. Panase, B.A. Kulkarni, And YogeshBendale Charactrization of RaupyaBhasma by using modern analytical techniques International conference on the role of Indian Systems of medicine in 21st Century Chennai (2003)
- 14. MrudulaWadekar, R.B. Gaikwad, B.A. Kulkarni, And AsmitaPrabhune Validity of imparting organic component to metallic bhasmas through and process of bhasmikarna 2nd World Ayurved Congress, University Of Pune, (2006)

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Chemical Basis for the Traditional Test Used for Loha Bhasma

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Abstract: Characterization of the genuine metallic bhasmas and confirmation of their identity and authenticity is very important for their safer use. Complete conversation of metallic powder to the bhasma is essential for this purpose. In ancient days traditional test like test of *Phyllanthus emblica* with loha bhasma was one of the significant test to identify genuine loha bhasma. In the present study, five commercial samples of *Loha bhasma* ie bhasma of iron are subjected to this test to find presence or absence of free iron in the samples, using traditional ayurvedic test and chemical basis for the same is provided using UV-Visible spectroscopy. Importance and practical utility of the test is also discussed in this communication.

Key words: Loha Bhasma, ayurvedic test, Phyllanthus emblica, UV-Visible spectra.

1.0 INTRODUCTION:

In the ayurvedic system of medicines all the drugs may be broadly classified into three major categories (a) drugs of plant origin, (b) drugs of animal origin and (c) drugs of mineral origin[1]. Among these, the drugs of mineral origin include a very important class called as metal-based bhasmas. According to ayurved rasashastra, these bhasmas, especially those derived from mercury, gold, silver, copper, iron, tin, lead and zinc are of primary importance because they possesses several merits and advantageous over all other medicines.

All these bhasmas are synthesized directly from the corresponding metals through the ayurvedic process called as *bhasmikarana*. If this process of *bhasmikarana* is followed strictly according to the instruction given in the standard ayurvedic texts, the resultant genuine bhasmas possess miraculous medicinal properties[2].

Characterization of the genuine metallic bhasmas and confirmation of their identity and authenticity is very important for their safer use. Reinvestigation of these traditional medicines are highly desirable on the basis of modern science to give them international recognition. Such types of are previously made by some attempts researchers[3-6]. For identification of a genuine bhasma, several preliminary and confirmatory tests have been established by ayurved pharmacy[7-8]. But most of these tests are either qualitative and arbitrary. More exhaustive and confirmatory tests are also prescribed in ayurvedic texts but these are not yet standardized. Secondly for each metalbased bhasma there are a variety of methods for their syntheses and therefore standardization of these bhasmas is also a very complicated task.

Therefore, in ayurved pharmacy, several traditional tests were introduced to test the purity and acceptability of certain ayurvedic drugs, for their safer use. These tests are simple, rapid and cheaper as well as convenient for practical purpose. However the chemistry behind most of such tests is yet to be explored. Some attempts have been done by the authors[9-11] and present work is one more attempt this direction.

The traditional test selected for present study i.e for *loha bhasma* is based on the use of *Phyllanthus emblica*. five commercial samples of *loha bhasma* (LB-1, LB-2, LB-3, LB-4, LB-5) are subjected to this test to find presence of free iron (which must be avoided) in the samples The experimental details for this test along with the chemical interpretations of the results are presented below.

1.1 IMPORTANCE OF LOHA BHASMA:

Loha bhasma is an iron-based ayurvedic drug. It is a famous and versatile medicine in Indian system of medicine used all over India since ancient times.Loha bhasma is specially recommended for anaemia and its role in increasing haemoglobin level has been experimentally proved. Apart from its specific use in anaemia, it is claimed to be equally important and effective in several other diseases listed below

- 1. Liver and Spleen complaints.
- 2. Bronchial asthma.
- 3. Impotency.
- 4. Rheumatism.
- 5. Wasting diseases.

1.2 SYNTHESIS OF LOHA BHASMA

Large number of methods for the synthesis of *loha* bhasma have been established in ayurved Pharmacy. Most of these methods use metallic iron

as the starting material. This metallic iron is preferred in the form of fine powder or thin sheet. Preparations are still done by traditional methods.

The synthesis of loha bhasma involves three major steps

- of iron purification Ayurvedic a) (Shuddhikarana)
- structure / metallic Distruction of b) character (Marana)
- Transformation into the bhasma state c) (bhasmikarana)

All these processes are tedious, time consuming and very expensive, but if they are followed strictly and correctly, the genuine "loha bhasma" is believed to be a powerful and wonderful medicine. However, synthesis of genuine loha bhasma and its correct characterization is a challenging problem for research scientists.

1.3 TRADITIONAL TEST SPECIFIC FOR LOHA BHASMA

To decide the purity and acceptability of loha bhasma this test based on the use of "Phyllanthus emblica" has been recommended in ayurvedic pharmacy. According to this test, if loha bhasma is spread on the surface of Phyllanthus emblica fruit, the colour of the interacting surface should not change for a standard loha bhasma. Thus, if no change in colour is observed at list up to six hours, this test is positive. If however the colour of the interacting surface becomes dark (black or blueviolet) within three to six hours, the sample is defective and indicative of the fact that, formation of loha bhasma is incomplete and such loha bhasma is not acceptable for clinical use.

The blue or black coloration is most probably due to the impurities of iron powder or iron salts associated with loha bhasma. To confirm the origin of this coloration, its chemical interpretation and source of impurities responsible for the colour, a detail study of this test is carried out. It has been reported that emblica act as chelating agent with iron and copper [12] which supports this observation.

COMPOSITION OF CHEMICAL 1.4 PHYLLANTHUS EMBLICA

(a) The fruit of Phyllanthus emblica is mainly composed of following constituents [13]

- Moisture ~ 77.00% .
- Tannin ~ 28.00%
- Fibre ~ 3.20%
- Minerals ~ 0.70%
- Vitamin C ~ 0.60%
- Other Trace Constituents ~ 0.50%

(b) Distribution of trace constituents per 100gm :

- Silica ~ 1.2mg
- Phosphorus ~ 20.00mg
- Calcium ~ 50.00mg

Nicotinic Acid ~ 0.2mg

(c) Important constituents of our interest : The fruit

contains tannins and gallic acid.

2. MATERIALS AND METHODS:

For the present study, pure microfine powder of iron and common iron salts such as ferric ammonium sulphate, ferrous ammonium sulphate, ferrous chloride, ferric chloride, iron oxide, iron oxyhydroxide and the solvents such as ethanol, used were of AR grade. Five samples of Loha bhasma prepared in reputed Ayurvedic pharmacy were taken for the study. Fresh fruits of Phyllanthus emblica were purchased from local market.

The electronic spectra of the solutions under study were recorded in ethanol on Shimadzu U.V-300 double spectrophotometer in the range 200-800 nm using 1.0 cm matched quartz cells.

3.RESULS AND DISCUSSION:

3.1 Interaction of iron powder and iron compounds with phyllanthus emblica

As a part of the chemical study of this traditional test, an examination of the interaction of freshly cut pieces of Phyllanthus emblica with microfined iron powder, iron compounds and loha bhasma giving coloration has been carried out. About 500mg of the sample was used for each test. The results of this examination are summarized in Table-1.

Table: 1 Interaction of iron with "Phyllanthus emblica"

Material	Results of Interaction	
1) Pure iron powder	Dark violate-blue colour	
	is slowly developed	
2) Ferric ammonium	Intense dark violet- blue	
sulphate	colour is	
	immediately developed.	
3)Ferrous ammonium	Intense dark violate- blue	
sulphate	colour is	
	immediately developed.	
4) Ferrous chloride	Immediate violate- blue	
	colouration.	
5) Ferric chloride	Immediate violet- blue	
	colouration	
6) Fe_2O_3	No colour is developed	
	even upto six hours.	
7) Fe O (OH)	No colour is developed	
	even upto six hours.	

3.2 Isolation of the coloured chelate and its characterisation

For the characterization of the coloured chelate formed by the interaction of iron powder or iron salt with Phyllanthus emblica, it was extracted with distilled ethanol. For this purpose the material associated with the coloured chelate was transferred into a beaker containing sufficient ethanol within one hour which was filtered through

Importance of the Test:

(a) Detection of free iron in the reaction intermediates:

Metallic iron converted into microcrystalline form is the starting material of loha bhasma. For the synthesis of *loha bhasma* a number of ayurvedic processes are performed on this iron which mainly include, Purification(Shuddhi) of the metal involves strong heating of the metal powder (or thin sheets) and deeping it seven times into oil, butter milk, cow-urine kanji. In this purification whether and to what extent iron is transferred to the medium may be detected through this test. Since number of such tests is large, rapidity of the test is a unique advantage. (ii) Bhasmikarana of the purified iron: For this purpose a large number of calcination cycles (30, 100, 500 or 1000) (gaja putas) are necessary. After each cycle, the intermediate product may be tested for the presence of unconverted iron left behind due to the incomplete bhasmikarana. This test is to be repeated till all the iron is completely consumed and bhasmikarana is complete. To decide, how many minimum cycles are required for this purpose, this test will be very useful from practical point of view.

Preliminary Examination of commercial samples:

Loha bhasma is manufactured by a large number of ayurvedic pharmacies all over India. of such samples are available for study. These samples may be screened through this test and very useful conclusions may be drown for the clinical or research purpose.

Limitation of the Test: Ready availability of the *Phyllanthus emblica* only during a restricted period (October to February) is the most serious limitation for this test. To overcome this limitation attempts may be done to replace the naturally occurring plants material by tannin or gallic acid.

4.0 CONCLUSIONS

The traditional test for *loha bhasma* by using *Phyllanthus emblica* is based on the interaction of *loha bhasma* with freshly cut piece of the fruit of *phyllanthus emblica*.

The test is positive and indicative of the purity of the *loha bhasma* if no change in colour at the interacting surface takes place. The absence of blue or violet colour indicates that the sample of *loha bhasma* is completely free from iron powder, which is the starting material. This means all the iron is completely transferred into bhasma state. Similarly during the process of bhasmikarana no iron salt or dissociable iron compound are contaminated in the end product.

Since *loha bhasma* is found to be composed of Fe_2O_3 and Fe O (OH), it is not expected to show any interaction with *Phyllanthus emblica* and therefore no change in colour is expected. Among five samples, four samples show no coloration indicating genuine *lauha bhasma* while one sample (LB-2)shows violate-blue coloration for the test indicating incomplete formation of the bhasma.

The origin of the blue or violet colour is the chelation of Fe (II) or Fe (III) with tannin (i.e. gallic acid). This colour reaction is specific for iron salts when applied for *loha bhasma* because the characteristic blue-violate colour is not given by any other contaminated ions (if any) such as Cu^{2+} , Ca^{2+} , Mg^{2+} , Ni^{2+} , Co^{2+} . Therefore the colouration is due to contamination of unreacted iron powder or residual iron salts.

The test is simple rapid and inexpensive and there is possibility for its modification by replacing *Phyllanthus emblica* with tannin or gallic acid.

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References:

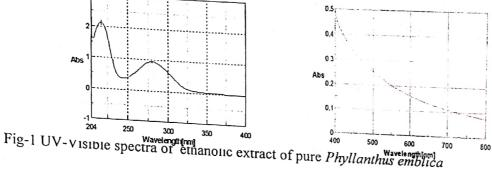
1. Chopra R. N. (1982), Indagenous Drug of India, Academic Publisher, Calcutta. New Delhi.

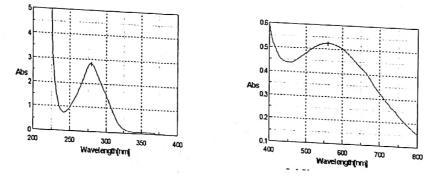
- 2. Vaidya Kudtarkar Shastri(1954), Research in Ayurvedic Medicines, Dhanwantari Aushadhalaya, Pune.
- 3. Wadekar M.P., Rode C.V., Bendale Y.N., Patil K.R., Prabhune A.A., (2005) Preparation and Characterization of a copper based Indian traditional drug :Tamra Bhasma., Journal of Pharmaceutical and Biomedical Analysis, 39, 951-955.,
- 4. Wadekar M.P., Rode C.V., Bendale Y.N., Patil K.R., Gaikwad A. B., Prabhune A.A. (2006), Study of effect of calcination cycles on the preparation of tin based traditional drug:Studies on its formation and characterization, Journal of Pharmaceutical and Biomedical Analysis. 41, 1473-1478.,
- 5. Kulkarni(Wadekar)Mrudula , Panse G.T , Kulkarni B.A and Bendale Yogesh (2004), *Characterization of Raupya Bhasma by using modern analytical techniques*, Journal of Indian Medicine and Homeopathy Vol. 3 No4, 37.

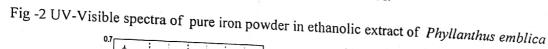
Whatman filter paper No. 41to get clear transparent solution.

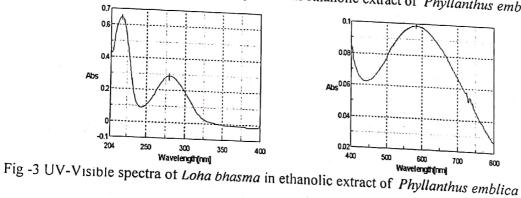
For characterization the UV-visible spectra of the coloured solution was recorded in the region 200-1000 nm against ethanol as the blank. Also UV-visible spectra of the ethanolic extract of pure Phyllanthus emblica (on which the samples of iron powder, iron salts and loha bhasma were spread) in same region 200 – 1000 nm was

recorded[Figure 1-3].Absobtion maxima for the compounds are given in Table-2.The UV-visible spectra of coloured chelate formed by bhasma(LB-2) with Phyllanthus emblica, (having its maxima at ~ 585 nm) was compared with the UV-visible spectra of iron chelate formed by pure iron powder with Phyllanthus emblica. Phyllanthus emblica containing tannic acid and gallic acid form black blue coloured iron tannate complex[14-15].









	Result of the Test	λmax (UV)	Amax	es of <i>Loha Bhasma</i> Conclusions
Extract of pure <i>Phyllanthus emblica</i>	No coloration	280	(Visible) nm 	Fe and Fe salts absent
Pure Iron powder	Violate-Blue coloration	282	585	Fe and Fe salts present
LB-1 LB-2	No coloration Violate-Blue	281 280	586	Fe and Fe salts absent Fe and Fe salts present
_B-3 _B-4	coloration No coloration	282		Fe and Fe salts absent
.B-5	No coloration No coloration	281 280		Fe and Fe salts absent Fe and Fe salts absent Fe and Fe salts absent

unemical Basis for the Traditional Test Used for Loha Bhasma

- 6. Wadekar Mrudula, Gogte Viswas, Khandagale Prasad and Prabhune Asmita, (2004), Comparative study of some commercial samples of Naga Bhasma, Ancient Science of Life Vol 23 No 4, 48.
- 7. Kulkarni S. B. (Dudhagavkar) (1976), Rasaratnnasammuchhya, Shivaji University Publication Kolhapur.
- 8. Borkar D. B.Rasaratnnakar, (1970), Shri. Gajanana Book Depot, Pune.
- 9. Wadekar Mrudula, Bendale Yogesh, Jadhav Pratibha and Prabhune Asmita, (2006), Standeardization and Chemical Interpretation of Traditional Curd Test for Tamra bhasma, National Symposium on Designing the Molecular World Through Chemistry, Banaras Hindu University, Varanasi.
- 10. Wadekar Mrudula, Takale Shivaji, Lad Rupali, Jadhav Pratibha and Kulkarni

B. A. (2006), Validity of The Traditional Test for Loha bhasma Involving Use of Phallanthus Emblica and its Practical Utility,2nd International Symposium on Drug Discovery and Process Research, Belgam (Karnataka).

- 11. Wadekar Mrudula, Takale S. T., Jadhav Pratibha and Lad Rupali, (2006), Use of Naturally Occurring Chelating Ligands to Test The Acceptibility of Metal-Based Ayurvedic Bhasmas, 37th International Conference on Coordination Chemistry, Cape Town, South Africa.
- 12. Chaudhuri, Ratan K. Guttierez, Gilles and Serrar, Mustafa(2003).: Low Molecular-Weight Tannins of Phyllanthus emblica: A New Class of Anti-Aging Ingredients. Proceedings Active Ingredients Conference, Paris.
- 13. Singh Ekta, Sharma Sheel, Pareek Ashutosh, Dwivedi Jaya, Yadav Sachdev and Sharma Swapnil, (2011), *Phytochemistry, traditional uses and cancer chemopreventive activity of Amla (Phyllanthus emblica): The Sustainer.* Journal of Applied Pharmaceutical Science, 02 (01), 176-183.
- 14. Iglesius J., Garcia E, DE Saldana and Jaen J.A, (2001) On the tannic acid interaction with metallic iron., Hyperfine interactions, 134, 109-114.
- 15. Fazary Ahmed Eid, Taha Mohamad and Yi-Hsu Ju,(2009), Iron complexation studies of gallic acid., J. Chem, Eng. Data, 54, 35-42.

ISSN:2350-0905

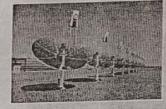
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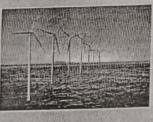








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POLYANILINE–HEMATITE (PAni/α-Fe₂O₃) HYBRID NANOCOMPOSITE AS A SENSORFOR DETECTION OF AMMONIA GAS

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Abstract—A facile, sensitive, economical and room temperature operable hybrid gas sensor of organic polymer poly-aniline(PAni) with inorganic material hematite (α - Fe₂O₃) as ammonia gas sensor has been developed by in situ polymerization method. The hematite nanoparticles were synthesized hydrothermally at 200°C. The sensor shows excellent sensitivity for low concentration (5ppm) of ammonia gas with short recovery time. It is found that sensitivity linearlyincreases with increase in concentration of ammonia gas. The response of hybrid sensor was found to be better than pure polyaniline sensor at room temperature.PAni/ α -Fe₂O₃ hybrid nanocomposite was characterized by Fourier transform infra-red spectroscopy (FT-IR), X- ray diffraction (XRD) and scanning electron microscopy (SEM).The SEM study of PAni/ α -Fe₂O₃ nanocomposite revealsformation of spherical porous and highly agglomerated morphology.

Keywords-Ammonia sensor, Hematite, Hybrid nanocomposite, Poly- aniline (PAni)

1. INTRODUCTION

Environmental pollution has become one of the most serious issues that entire world is facing and hence obviously has also attracted scientific researchers in order to investigate various environmentalsafety and protecting measures (1-5). The major cause of environmental pollution is release of various harmful and toxic gases or chemicals in the air through various activities of mankind, industrial effluents and agricultural activities. Ammonia is a natural gas that is present in atmosphere in trace amount but in past decade it has been marked that its concentration has been increasing and has become one of the toxic pollutants in the environment. Ammonia is most abundant alkaline gas in the atmosphere. Recent study indicated that ammonia emissions have been increasing over a last few decades. This has caused negative impact on public health and also contributed in the climate change to a certain extent. According to United States Environmental Protection Agency, concentration of ammonia gas above 25ppm creates various health issues and also found that exposure to at about 50ppm of ammonia gas may cause life threatening situations such as swelling of eyelids, permanent blindness, respiratory tract diseases, skin irritations and skin diseases (6-10). Hence it is essential to design highly sensitive, room temperature efficient and economical ammonia gas sensor

* Dr.V.V.Chabukswar. Tel.:+91-9960125609. E-mail address: vvchabukswar@gmail.com which can detect presence of ammonia gas in atmosphere at very low concentration i.e. below the toxic concentration limit. Nanotechnology has an important key role in the development of new innovative methods to produce new improved products, to design new materials and chemicals with better performance resulting in less consumption of energy and materials and less harm to the environment. It is found that most of the organic conducting polymers such as polyaniline (PAni), poly- thiophene, poly-pyrrole,polyphenylene possesses excellent gas sensing properties (11-14)

Poly-aniline (PAni) is one of the most versatile polymer which is eco-friendly, easy to synthesize and has good gas sensing properties. Due to its unique properties it has got various applications in several useful devices such as super capacitors, corrosion protection systems, light emitting diodes, rechargeable batteries etc. In recent studies it is marked that poly-aniline sensor has been used for the detection of various gases like H2S, H2, NH3, NO2 etc. But this polymer have disadvantage that it is not possible to use it at higher temperature. In order to overcome this problem the blending of organic and inorganic nanocomposites materials have been utilized smartly for various gas sensing applications. (14-15). It is also found that most of the transition metal oxides are n-type semiconductors and may be used for gas sensing purpose. In the present study nano composite of PAni with hematite (a-Fe₂O₃) is prepared in situ and is used for ammonia gas sensing purpose at room temperature. It is found that PAni- a-Fe2O3 nanocomposites shows excellent

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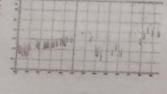
numonia gas sensing activity at very low concentra-tion (Sppm) of ammonia. This gas sensor operates on enriciple of conductance change due to chemisorption of gas molecules such as ammonia. This hybrid sensor synthesized by simple, inexpensive, quick and eco-iendly process and found to be sensitive for ammonia

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3.1 FTIR study

To identify presence of α -Fe₂O₃ in the composite andto observe the association of PAni with α -Fe₂O₃ FT-IR of PAni and its composite with α -Fe₂O₃ were

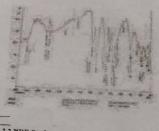
compared. Fig Ia and Fig. Ib are the FT-IR spectrums of PAni and PAni (~e.Fo;O, nanocomposite. bands for PAni (Fig. Ia) 1564 and 1504 cm³ were attributed to quinonoid and benzenoid ring stretching vibrations. The absorption band at 1246 and 1309 cm³ was considered as bending vibrations of C-IA in benzene ring. The absorption band at 1246 rd in benzene ring. The absorption band at 1246 rd in benzene ring are absorption bands at 758 and 569 cm³ was considered to bending vibrations of C-IA in benzene ring respectively. The FTIR spectrum of PAni disubstituted benzene ring and bending vibrations of -Fc;O, Nanocomposite (Fig. 1b) was comparable to PAni even though some peaks were not fully identical Vibrations of quinonoid and benzenoid structure were shifted from 1564 and 1500 cm³ to1587 and 1500 cm³ respectively. The peaks at 574 and 470 cm³ indicates presence of Fe-O stretching frequency in annocompo-site. The minor red shift of peaks was observed in annocomposite.



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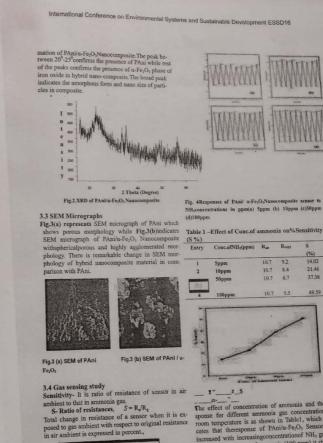
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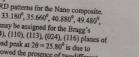
3.2 MRD Study

-.3.2 XRD Study
- Fig.2showsXRD patterns for the Nano composite. Thepeaks at 2θ = 33.180°, 35.60°, 40.880°, 49.480°, 54-680°, 57.608° may be assigned for the Brage's planes: (012),(104), (110), (013), (024), (116) planes of Hematite. The broad peak at 2θ = 25.80° is due to PAni.The XRD showed the presence of twodifferent phases i.e. PAni and α-Fe₂O₃, supporting for thefor-



S (%) = [Ra - Rg/Ra] X 100

where Ra- Resistance of sensor material to air Rg-Resistance of sensor material to ammonia gas The effect of concentration of ammonia and the re-sponse for different ammonia gas concentrations at room temperature is as shown in Table1, which indi-eates that theresponse of PAni/a-FeO, Sensor was increased with increasing concentration of NH, gas. At higher concentration of ammonia (100 ppm) it showed the maximum percentage sensitivity. Meansitivity of PAni/a-FeO,Sensor is linear and increased with con-centration of ammonia gas from Sppm to 100ppm.



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4. Conclusions

PAn/a-Fe₂O₃nanocomposite was synthesized suc cessfully by in situ polymerization method. This hybrid nanocomposite has good environmental sta-bility and sensitivity for low concentration of ambilly and sensitivity for low concentration of am-monia gas (Spm) at room temperature. This is the most facile, inexpensive, fast and ecofriendly meth-od for the synthesis of annmonia sensor. The PAni A-Fe₂O₃ (20%) nanocompositewas tested for vari-ous concentration of annmonia and found excellent sensitivity for 100 ppm (48.5%) concentration at room temperature. It shows fast re-snonseand/shortconversion sponscandshortrecoverytime.

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References

- References
 [1] R. Kortum, and M.Oden, "Engineering. Devices for low-Resource Health Care," Science, 342, pp.1055–1057,2013
 [2]H. Yang, R.Flower, J. Thompson, " Pollution: Charles Contemportation of the second secon
- China's
- China's New Leaders Offer Green Hope, Nature, 493, pp.163.2013 [3]D. Henschler, "Toxicological Problems Relating to Changes IntheEnvironment,"Angew.Chem, [9] A. Sutti, C.Baratto, G.Calestani, C.Dionigi, M.Ferroni, G.Faglia and G,Sberveglieri, "Inverse Opal Gas Sensors:

- Sensors: Zn(II)-DopedTin Dioxide Systems for Low Temperature De tection of Pollutant Gases, "Sens. Actuators B, 130, pp.567-5732008, doi: 10.1016/j.snb.2007.11.048 [10] Xu, X.; Fang, X.; Zeng, H.; Zhai, T.; Bando, Y.; Golbere, S.
 - Golberg, D, "One-Dimensional Nanostructures in Porous
- Alumina Membranes," Sci. Adv. Mater, 2, pp. 273-294

213-294 2010,doi.org/10.1166/sam.2010.1094 [11]X. B. Yan, Z. J. Han, Y. Yang and B. K. Tay, "NO₂ gas sensing with polyanilinenano-fibers synthesized by a facile aqueous/organic interfacial polymerization," Sens. Actua-tors, B, 23,

- p.107,2007doi:10.1016/j.snb.2006.07.031

- Int. Ed. 12, pp. 274-282, 1973 [4]M. N. Rumyantseva, A. M.Gaskov, N.Rosman, TPagnier AndJ. R.Morante," Raman Surface Vibration Modes in
- NanoCrystallineSnO2 Prepared by Wet Chemical Correlations with the GasSensors Performanc-es,"Chem.
- Correlations with the GasSensors Performance, ex, "Chem
 Moter, 17, pp. 893-901; 2005,
 [5]/Leclaire, G.Husson, N.Devaux, V.Delorme, L.Charles,
 F.Ziarelli, P.Desbois; A. Chaumonnot, M.Jacquin, F.Fottaku and G.Buono, "CO, Einding by Dyn-natorial Chemistry: anEnvironmentalSelec-tion," J. Am.
 Chem.Soc. 132, pp. 3582-3593,2010,
 [6]B.Timmer, W.Olthuis, A. van den Berg, "Ammo-nia Sensors and their applications-a Review," Sens. Actuators B107,pp.666-677,2005,doi:10.1016/j.snb.2004.1
 1.054
 [7]D.Narducci, "Biosensing at the Nanoscale: There's plenty Of Room Inside," Sci. Adv. Mater. 3, pp. 426-435,2011,
 [8]E.Bekgrevava, I.Kalinina, M. E. Hkis, L.Beer, N. Cabrera

 - Cabrera and R. C. Haddon and Mechanism of Ammonia
- andR. C. Habota and necessary and an excession of the second s

- doi: 10.1021/ja0703271
 [12]G. D. Khuspe, S. T. Navale, D. K. Bandgar, RD.Sakhare
 M. A. Chougule and V. B. Patil, "Sn0panoparticles-modifiedpolyaniline films as highly selec-tive, sensi tive, reproducible and stable ammonia sen-sorselec
 tron,"Mater.lett. 10, pp. 191, 2014,
 [13]V.V.Chabukswar,S.V.Bhuxa, A.S.Home, K.N. Handere, VB.Gaikwala and K.C.Mohite, "Con-ducting Poly(N-propylaniline) nanoparticles useful for the detection OfHydrogen sulfide gas,"Macronolecular Symposita 327, pp. 39-44,2013, doi: 10.1002/masy.20130504
 [14] V. V. Chabukswar, S. Pethkar and A. A. Atha-wale, "Acrytic acid doped polyaniline as an ammonia sensor,"

 - wale, "Acrylic acid doped polyaniline as an ammonia sensor," Sensors and Actuators B 77, pp. 657-663, 2001, doi.org/10.1016/S0925-4005 (01)0078

S.S.P. M's Chandmal Tarachand Bora College, Shirur

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B.C.U.D.

International Conference on

"ENVIRONMENTAL SYSTEMS AND

SUSTAINABLE DEVELOPMENT"

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presented oral/poster paper entitled Polyaniline - Hemabite (pari/a-Fe 23) Hybrid Nanocomposite as a Sensor for Detection of

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15-16, 2016

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Telom Dr. B. R. Khot

KMalile Dr. K. C. Mohite

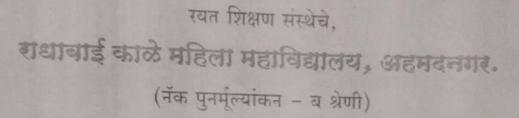
Co-ordinator







44.



मराठी विभाग आयोजित

'राष्ट्रीय परिषद'

'आंतरविद्याशाखीय संशोधन : स्वरूप आणि संधी' (दि. २२ व २३ डिसेंबर २०१५)

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आयोजक

प्राचार्य डॉ. भाऊसाहेब कराळे

संपादक मंडळ

प्रा.डॉ. संजय नगरकर समन्वयकः (मराठी)

ा. संभाजी कातोरे प्रा. गफूर शेख प्रा. बुवासाहेव देरे प्रा. मनोहर कराडे सहसमन्वयक सहसमन्वयक सहसमन्वयक सहसमन्वयक (राज्यशास्व) (इतिहास) (शा. शिक्षण) (इंग्रजी) प्रा. संभाजी कातोरे प्रा. मनोहर करांडे प्राप्त । प्राः भूपेद निकाळजे प्रा.संतोष गायकवाड प्रा.डॉ.वैशाली पार्टील प्रा. सहदेव आव्हाड सहसमन्वयक (मानसशास्त्र) सहसमन्वयक सहसमन्वयक (अर्थशास्त्र) सहसमन्वयक (समाजशास्त्र) (हिंदी)

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संशोधनात सामाजिक पाहणी पध्दतः एक चिकित्सक अभ्यास

प्रतावनाः

सामाजिक संशोधनात वैज्ञानिक विचार, संशोधन पथ्वत आणि संशोधनाची तत्रे असे तीन भाग पढतात. वैज्ञानिक विचारप्रस्त ही सर्व शास्वांची समान पष्ट्रत आहे. वैज्ञानिक दृष्टीकोन हा तिचा आधार असतो आणि तर्कशुध्य विचार हा तिचा आत्मा असतो. त्यांच्या परस्पर संबंधातून निर्माण होणा-या समस्यांचा अभ्यास करून उपाय शोधायचे असनात प्रत्येक घटनेत सहभागी असलेल्या व्यक्तीच्या वर्तनाचा अर्थ लावणे त्यासाठी आवश्यक असते. सामाजिक संशोधनायक प्रत्यक मटनाग पर विविध पश्चती वापरल्या जातात. ऐतिहासिक पध्चत, सामाजिक पाहणी, व्यप्टी अध्ययन पध्चती, आझाय विञ्लेषण पध्चन ति वेव प्रयोग ने प्रियंत सांख्यिजी विरलेषण पश्चत, समाजनीती अशा अनेक पश्चती आहेत. संशोधनाचा विषय व हेत् याला अनसहन योग्य ती पथ्वत वापरली जाते. यापैकी सामाजिक पाहणी ही सर्वात जास्त वापरात असलेली पथ्वत आहे.

जोध निबंधाची उहिष्ट्ये :

सामाजिक पाहणी पश्चतीचा इतिहास अभ्यासणे.

- सामाजिक पाहणी पध्दतीची संकल्पना अभ्यासणे
- . २. सामाजिक पाहणी पध्वतीची उद्देश अभ्यासणे
- सामाजिक पाहणी पथ्वतीची कारणे अभ्यासणे
- सामाजिक पाहणी पध्दतीतील मुख्य टप्पे अभ्यासणे सामाजिक पाहणी पध्वतीचे प्रकार अभ्यासणे.
- सामाजिक पाहणी पध्वतीचे गुण-वोष अभ्यासणे
- शोध निबंधाची गृहिते :
- भारत देशातील सामाजिक विकासात सामाजिक पाहणी पध्वतीचे महत्त्व दिसून येते

संशोधन प्रध्तती

प्रस्तुत शोधनिबंधात विइलेषणात्मक संशोधन पथ्दतीचा उपयोग केला असून शोधनिबंधात विवेचन दुय्यम साधन सामग्रीवर अबलंबून आहे. वासाठी विविध संदर्भग्रंथ, पुस्तके, मासिके, अहवाल, वृत्तपत्रे, संक्रैतस्थले (वेबसाईट) इत्यादीचा उपयोग केला आहे

अभ्यास विषयाचे महत्त्व :

अनेक प्रकारच्या संशोधनाचा समावेश सामाजिक पहणीत केला जतो. इंग्लंडच्या पूर्वापार वारिद्र पाहण्यापासन अमेरिकन गॅलन पोल्स (चांचपण्या), विषणत संशोधन (नगर रचनेच्या पाइण्या या संगळ्यांनाच सामजिक पाहण्या म्हणनत. त्याचे महल्य दिसुन येते. वेगवेगळ्या प्रकारच्या पाहण्यांचे हेतुही वेगवेगळे असतात. काही पाहण्या शासना करता माहिती जमावतात. काही पाहण्या कारण-परिणाम संबंध तपासण्यामाठी करतात. तर काही पाहण्या सामाजिक मिष्यांताची चावणी होण्याकरिता करतात. सामग्रीची लोकसंख्यात्मक वैशिष्ट्ये सामाजिक पर्यावरण, सामाजिक णहण अभिवृत्ती मतांचा आर्थिक विकासात होणारा परिणाम कमे होतात याचा अभ्याम ''संडोधसात सामाज़िक पाहणी पध्वत एक चिकित्सक अभ्यास'' हा विषय निवडला आहे.

सामाजिक पाहणीचा इतिहास (History of Social Survey):

सामाजिक शास्त्रामध्ये पाहणी पध्वतीचा इतिहास सुमारे ३००० वर्षची जुनी कल्पना आहे. पण शास्त्रीय सामात्रिक पहणीची सुरुवात जीत हॉवर्ड यांनी इ.स. १७०० मध्ये कैद्यांची परिस्थिती समजण्यासाठी केली. फ्रान्समधील खेळेच्या सामाजिक सुधारकाने औद्योगिकीकरणानंतर कामगारांच्या स्थितीचा अभ्यास करण्यासाठी त्यांची पाहणी आठव्या ते एकोणिसाव्या इतरुवत केली. त्यात त्यांनी कामगारांचे आर्थिक अंदाजरत्रक व कौटुविक स्थितीचा प्रमुख मुढांच अभ्यास व्यण्यासाठी पाहणी केली. चालंस बुध यांनी पूर्व लंडनच्या लोकांचे दारिह्य हा त्याचा विषय होता. वी.एस राजटी यांनी सन १९४१ मध्ये वारिक्र्याची आणि प्रगती या विषयांवर अभ्यास केले आहे सामाजिक पहणीची संकल्पना (Nature of Definition of Social Survey)

स्वरुप पहणी या शब्दात चिकित्मक पहणी ही महत्त्वाची बाब अंतर्भुत आहे. चिकित्मायांचा अर्थ एखाद्या घटकांचा मर्व वैल्वुनी अभ्यास करणे व त्या अभ्यासाचे निष्कर्ष मांडणे हा आहे.

व्याव्या - वेवस्टा कोञानुसार : अचुक माहिती देणारी चिकित्सक नसमणी म्हणजे पाहणी होय. विशिष्ट ठिकाणच्य गणिस्थनीचा केलेला अभ्यास म्हणजे पाहणी किंवा सर्वेक्षण होय Radhabal Kale Mahila Mahavidyalaya, Ahmadnagas

Interdisciplinary Research: Nature & Opportunities

सामाजिक पाहणीचा उद्देश (Aims of Social Survey) :

भामाजिक शास्त्रांमध्ये प्रत्यक्ष समाजात जाऊन व उनविलेल्या गटाएक्ते जाउन जी पढणी केली जते ती काही उनकिल समाजिक शास्त्रांमध्ये प्रत्यक्ष समाजात जाऊन व उनविलेल्या गटाएक्ते जाउन जी पढणी केली जते ती काही उनकिल भूमाण्डव इहिष्टांवर आधांतरित असते, कारण उद्देश केम्पाशिवाय पहणांला कोगतली अर्थ तस्तो. बोणत्पार्श सन्दर्शिक प्रजीव

ा पुरुषप्रमा १. सामाजिक, पाहणीतील, बटकांची संविस्तर साहिती मिळकिंगे, इस, निवडलेल्या एखधा लडन जवा पाहणीमध्ये १) गावाची लोकसंख्या, २) स्त्री, पुरुष, मुले, वृध्य क्षचे प्रमाण ३) दळणवळणाच्या सोबी ४। हिदिणाची साधने, ५) त्या साधनांमा मिळगारे प्रतियाद ६) सार्वजनिक अयोग्याच्या सोर्व ७) इन खाल इ दवाखाने ८) बालविवाह हुंडा यायावत समस्या आहं काय १ सवजानक अस्तर्भवान्त्र दवाखाने ८) बालविवाह हुंडा यायावत समस्या आहं काय ? यावहार माहिनी १) गावन विविध डतीमध्य विभागलेले लोक १०) विविध धर्मतील लोक ११। गवातील आदिक कर्ग १२) नोकरी करणारे किती ? १३) रोजगार मिळविणारे किती ? १४) स्वतंत्र व्यवसाय करणारे किती ? १५। बेरोजगार किती ? वरील्प्रमणे ्र) प्लाव करवाय करवाय करवा उ रेपा वयवाय का गावती उ रेपा वयवाय करवा माहिती जाव करवा गुहितकृत्वाच्या आधारे महीधकान

 गटातील समस्या माहिती करन घेणे ३) पुवग्रह तजसून घेणे. ४) गटाविषयी नवीर गोष्टी समकर्ण. ५ लोकांची विचारधारा समजते. ६) एकाच गटाचा नियमित अभ्यास करणे इ. आहे.

मामाजिक पाहणीची कारणे (Causes of Social Survey) : कोजन्मही व्यापक हेतुसारी पढणी हा संशोधनाव प्रकार वापरला जातो. पाहणी करणे ही रीधेकाळ चालगाती व वेळ, पैसा, कार्यक्षमना आवत्र्यक असलगी प्रक्रिया असन्ती ** तो काही घटना समजाव्यात म्हणून पाहणी प्रती व्यावीच लागते. सामाजिक पहणीचे काण पुढील प्रमणे

- होकमत पाहण्यासाठी : एखाद्या प्रदनावहल होकांचे मत नेमके कोणते आहे ? न्याच्या भावन कहा प्रकारच्या आहे याविषयी माहिती जाणून घेण्यासाठी वेळोवेळी समाजिक चल्ला केली जले. उदा, न्युज चॅनेल्य अशाप्रकारे सर्वेक्षण हाती घेतात. निबढण्कीपूर्वी जनमत चाचणीच्या माध्यमतून कोणच्या प्रताल किनी जण मिळतील याविषयी सांगितले जाते.
- लोकसंख्येतील बदल पाहणीच्या माध्यमानुन लोकसंख्येतील विविध घटकांचा वैज्ञानिक अध्याम काण्यल येती. उदा. राज्यानसार लोकसंख्या, लोकसंख्येतील लिंग गणोल्य, मन्द्रवर, जन्मवर, म्यलांतराचा दर, लोकसंख्येतील गतिशिलना, लोकांचे आर्थिकमान इन्यादी माहिती मिखविली जने
- समाजातील लोकांची माहिती देणे : सामाजिक पहणीचा हेत् मुख्यतः महिती देण्यासंदर्भात अस्तो, उद भारतीय समाजात किती टकके आदिवासी लोक राहतात. प्रामीण भागत किती ? इडरी समाजन किती ? य सगळ्यांची रोजगाराची साधने इत्यादी माहिती वेगवेगळ्या सामाजिक सर्वेकणचाच आधारे मिळते
- ४) लोकजलांची माहिती करुन धेजे : मानव केवळ अत्र, वस्र व निवार या गरज पूर्ण झाल्या की विवत राहने अन माही तर त्याला जगण्यासाटी काहीतरी डॉइफ असवे लगते. उदा वेगवेगले इंद, कल, रोकवरण, सर्वाज्य प्रथा, यात्रा, पर्यटन ही या सगळ्या गोष्टी सर्वांपर्यंत पोहचविषयाचे काम केले उने

सामाजिक पाहणीतील मुख्य टप्पे (Main Stages in Survey) :

सामाजिक शास्त्रांमध्ये संशोधन करण्यासादी संशोधन विषयापासून ने सिध्धांत मडणीर्थपत्र्वे द्रण्ये प्रजीम प्रयणो

- १) मेमे कोणत्या प्ररनाबदल सर्वेक्षण करावयाचे आहे हे मुहवातील ठरवून व्यावे तलते
- २) पाहणी कोणत्या भागात किंवा परिसरात करावयाची हे निरिचत करावे लागते
- आपल्या पाहणीचा हेतु नेमका कोणता आहे ? त्यामुळे कोणाक मदत होणाम आहे यावकन महाधकाच्या मतन
- ४) पहली करताना एखाला परिपसाची जरी करावयांकी असेल तरी ते अलकर आई असे कटाच्यम काले का
- अन्य सम्प्रकार करे करे करे के स्वाय करत है महीधकाल आपन्य अनुभवकरन्व लावने लागे उ
 पहणीसाठी कोणया संशोधन तंत्राया करर करके है महीधकाल आपन्य अनुभवकरन्व लावने लागे उ
- अस्तानगणः गुज्जव्याः जाउ्डा व जातः १) माहिती जमा करनांना किंती लोकांची धड़त लागेल क्षचा विचयहां मंद्रीधकाण महित्ते जम कर्त्रवचन मुख्य
- ्र भारिती तथा करतान अडपणी अल्पाच तर नेपले काव करावे याचे कियोजनती संरोधकाल काली जातने

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- ८) बरेचदा संशोधक माहिती विचारात असताना लोक काही प्रदेन संशोधकालाच विचारतात त्याची उत्तरे देण्याची जन्मी प्रदेशे भाहिती जमा करण्यास किती काळ, वेळ, पैसा लागेल याविषयी नियोजन केले पाहिजे.
- १०) पाहणीतील माहितीचे व्यवस्थित संख्याशास्त्रीय विश्लेषण करुन पाहणीतील मत सर्वसामान्य लोकापर्यंत
- ११) कोणत्याही पाहणीचा उद्देश लोकांसाठी माहिती जमा करणे हा असतो. कारण शेवटी माहिती लोकांनीच दिलेली असते. जे निष्कर्ष निघाले ते सत्य परिस्थितीत समाजासमोर ठेवण्याचे धाडस संशोधकाने दाखविले पाहिजे.

सामाजिक पाहणी पध्दतीचे प्रकार (Types of Survey) :

सामाजिक पाहणीचा कालावधी व हेतू वेगळा असतो. या आधारावर पाहणीचे खालील काही प्रकार पडतात.

- १) नियमित पाहणी : उराविक काळाच्या अंतराने एखाद्या घटकात, व्यक्तीमध्ये व व्यवस्थेमध्ये जे बदल होतात ते तपासण्यासाठी काही पाहण्या केल्या जातात त्यांना नियमित पाहणी असे म्हणतात. उदा. लोकसंख्येची पाहणी, टाटा समाजविज्ञान संस्थेतर्फेही अशा आर्थिकमान पाहणी केल्या जातात. या नियमित पाहणीचा उद्देश दोन काळातील बदल तपासणे, त्यांची तुलना करणे व त्याआधारे काही उपाययोजना करणे हा असतो.
- २) अधिकृत व अनधिकृत पाहणी : सरकारकडून नियुक्त करण्यात आलेल्या एखाद्या संघटनेतर्फे जी पाहणी केली जाते. त्याला अधिकृत किंवा औपचारिक पाहणी असे म्हणतात. तर एखाद्या व्यक्तीने स्वतःच्या संशोधनासाठी जी पाहणी केलेली असेल तिला अनधिकृत पाहणी असे म्हणतात.
- ३) प्रत्यक्ष व अप्रत्यक्ष पाहणी : संख्याशास्त्रीय पध्वतीच्या आधारे ज्या पाहणीतील निष्कर्ष सांगता येतात त्या पाहणीला प्रत्यक्ष पाहणी असे म्हणतात. याउलट ज्या पाहणीचे निष्कर्ष कमी वैज्ञानिक असल्यामुळे संख्याशास्त्रीय आधारावर सांगता येत नाहीत त्यांना अप्रत्यक्ष पाहणी असे म्हणतात.
- ४) वैयक्तिक व पोस्टाने केलेले सर्वेक्षण : वैयक्तिक पहणीत व्यक्तीला स्वत: संशोधन विषयापर्यंत जाऊन माहिती करावी लागते. संशोधक जेव्हा स्वतःच व्यक्तीपर्यंत जाऊन पाहणी करतो तेव्हा त्या पाहणीला वैयक्तिक पाहणी तर जेव्हा पोस्टाच्या माध्यमातून प्रइनावल्या पाठवून मागवून घेतल्या जातात त्याला पोस्टाने केलेले सर्वेक्षण म्हणतात.
- ५) गुप्त आणि खुली पाहणी : जेव्हा एखादा प्रइन जनतेच्या जिव्हाळ्याचा असतो तेव्हा जनतेला त्याबद्दलच्या पाहणीबद्दल उत्सुकता असते. त्या पाहणीचे निष्कर्ष जनतेसाठी खुले करावे लागतात तेव्हा अशा प्रकारच्या पाहणीला खुली पाहणी व जेव्हा एखादा प्रश्न एखाद्या संस्थेपर्यंतच मर्यादित असेल तर अशा पाहणीला गुज पाइणी असे म्हटले जाते.

सामाजिक पाहणी पध्वतीचे गुण-दोष (Merits and Demerits of Survey Method) : सामाजिक संशोधनासाठी पाहणी हे महत्त्वाचे तंत्र भावी काळात ठरणार आहे. पाहणी पध्दतीच्या गुण-दोष खालीलप्रमाणे आहेत.

- अ) पाहणी पध्दतीचे गुण :
 - १) सखोल अभ्यास करता येणे शक्य : जनमत जाणून घेणे हा पाहणीचा मुख्य उद्देश आहे. त्यामुळे पाहणी करणा-या संशोधकाला संशोधनकार्यांची पुरेशी माहिती असणे आवश्यक आहे. या तंत्रामुळे लोकांच्या कल्पना, त्यांचे विचार

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	संशोधनात सामाजिक पाहणी पथ्दतः एक चिकित्सक	प्रा.डॉ. देशमुख बी.वाय		२६६ ते २६८
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	संशोधनातील गृहितकाचे महत्त्व	प्रा.डॉ. श्रीमती. भिंगारदिवे ए	स.ची.	२६९ ते २७०
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: ?.		राठोड नीता श्रीराम		
	विइलेषण	क्. शेख शायिन यासि	त	
-	भारतात सामाजिक सर्वेक्षण विकास एक चिकित्सक अभ्या	3 0 0 0 0 0 1 0 1 0		२७५ ते २७%
دع.	मारतात सामा।जक सवक्षण विकास एक। चाक्रासक अभ्या	क, शेख शायिन यासिन		To and the
.3.	सामाजिक शाखीय संशोधनाचे स्वरुप आणि दृष्टिकोन	डॉ. वैद्य संजय गोविंदराव		२७८ ते २८
	संशोधनाच्या विविध पथ्वती	खोसे प्रियंका नारायः	П	
4.	Research And Types Of Research			२८४ ते २८
	resolution and types or resolution	Ms. Goyal Neelam I	Sharat	२८७ते२८
24.	Study Of Problems In Data Collection For Research	CA. Goyal Nikhil Bharat		400 11 40

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पुढालग्रमाणः १) समग्र निदिचत करणे (Determination of Universe) त्रमुना निवड करतीना ज्या समग्रानन एकक समग्र निदिधतं करणे (Determination of omroto) - गुजनामार्थः समान का समग्रीतुनं एकेक निवेडायरे आहे ते समग्र सर्वप्रथमं निदिचतं करावे लागते. निश्चितं समग्र, अनिडिधतं समग्र, वास्तविक समग्र, कात्यनिक समग्र इत्यादी समग्राच्या प्रकाराचा आढावा घ्यावा लगनो.

टप्पे प्ढीलप्रमाणे :

नमुना निवडीची प्रक्रिया : (Process of Selection of Sample तमुना ।नवडाचा प्राक्रयाः भगगण्डा व विकासम्बन्धः य मंत्रोधन कार्यातील प्रमुख भाग म्हणजे तमुना निवड असुन ही गुनागृंतीची प्रक्रिया आहे. या प्रक्रियेतील पाय-था किंवा

गुड व हॅंट : ''मम्ना त्यातील नावाप्रमाणेच एक विस्तृत ममूहाचा लघु प्रतिमिधी आहे

नम्ना निवडीची व्याख्याः

पडतात

विइलेषण'' हा विषय निवडला आहे तमुना निवडीनील संकल्पना : (Nature of Definition of Sample) नम्रहागाल संघलन्त्रण त्यासम्प्रयातून निवडण्यात आलेला एक भाग असतो. ज्या लोकासाठी संशोधन केले स्वरुप : नमुना ही विद्रव अथवा समग्रातून निवडण्यात आलेला एक भाग असतो. ज्या लोकासाठी संशोधन केले

असे तेवे कसे बनले आहे याचा अभ्यास करण्यासाठी "सामाजिक मंद्राधनामध्ये नमुना निवडीची षुमिका महत्त्व : एक

• अभ्यास विषयाचे महत्त्व : संशोधन कार्यात नम्ना निवड पध्वतीचा उपयोग प्राचीन काळापासुन केला जातो, जनगणना पध्वतही वेळ, श्रम आणि पैसा या दृष्टीने परवडणारी नाही म्हणून अनेक संशोधक नमुना निवड तंत्राचाद अवलब करतात. संस्थादार नमना प्रधतीचा अवल्जेब करन सामाजिक सर्वेक्षण केले. त्यामुळे आज नमुना निवड तंत्र हे सामाजिक मंशोधनाचे एक लोकप्रिय

प्रस्तृत शोध निवंधात विइलेषणात्मक संशोधन पच्चतीचा उपयोग केला असन शोध निबंधातील विवेचन दुय्यम साधन मामग्रीवर अवलंबुन आहे. यासाठी विविध संदर्भ ग्रंथ, पुस्तके, मासिक, अंहवाल, वृत्तापंत्रे, संकेतस्थळ (वेबसाईट) इत्यादींचा उपयोग केला आहे.

संशोधन पध्दती :

• जोध निवंधाची गृहीते

- मम्मा निवडीची मर्यादा / दोष अभ्यासणे
- ४) तमुना निवडीचे फायदे / गुण अभ्यासणे,
- ३) नमुना निवडीचे प्रकार अभ्यासणे
- नम्ना निवडीच्या प्रक्रियेचा अभ्यास करणे
- १) नमुना निवडीची संकल्पना अभ्यासणे

सामाजिक संशोधन करण्यासाठी गृष्टीतकृत्य आणि संशोधन आगर्छडा त्यार केल्यानंतर नमुना निवड केली ।वेळी संशोधन विडवलीज सिन्द्र प्रजानिकांचा ज्यावेळी संशोधन विश्वातील किंवा सामग्रीतील एककांची संक्षायन आगळडा तयार केल्यानंतर नमुना गण नेपाम किंवा जडानमा नगल करेंगे. एक छोटासा किंवा लहानसा नमुना गट निवडला जातो व त्या नमुना गटातील सकतेची संख्या जाम्न असते त्यावेळी त्या मामग्राताल एक छोटासा किंवा लहानसा नमुना गट निवडला जातो व त्या नमुना गटातील समस्येशी संबंधित सिम्ह्य कांडले जातात. ्या पर अपल्या दैनदिन जीवनात या पध्दतीचा उपयोग करोतच असतो. शितावरुन भाताची परिक्ष प्रेंगर्स्ट का क्या संपूर्ण आपल्या दैनदिन जीवनात या पध्दतीचा उपयोग करोतच असतो. शितावरुन भाताची परिक्ष प्रेंगर्स्ट वाते. बेक्स जेका संपूर्ण जनवार प्रयत्या करकरणा जनस्य प्रति त्र प्रयोग काटकाचा कसा आणि कोणता परिणाम होतो. हे ताणून घेण्यासाठी कहाँ प्रतिनिधिक एकक तिवडल्या समूहावर एखाद्या काटकाचा कसा आणि कोणता परिणाम होतो. हे ताणून घेण्यासाठी कहाँ प्रातिनिधिक एकक तिवडल्या संपूर्ण जतात आणि त्यांच्या आधारे त्या परिणामांचे मापन केले जाते तेव्या त्या पश्चर्ताता / तमुना निषड प्रथ्वती" असे म्हणतात

प्रस्तावनाः

सामाजिक संशोधनात नमुना निवडींची भूमिका : एक विश्लेषण

अशा प्रकारे ममुन्यावरच संशोधन कार्याचे यहापपरा निर्धर करते. ममुन निवडीच विहजसनीवनेचे माक समांतर नमुना तिवड, समग्राशी तुलना, समुन्यातून दुस-या नमुन्याची सिवड याद्वारे नमुना निवडीकी विद्यवसनीयता मापता येते नमुना निवड पध्दतीचे प्रकार : (Types of Sampling Method) नम्ना निवड पध्वतीचे प्रकार प्ढीलप्रमा अ) संभाव्यता नमुना निवड : (Probability Sampling) : "समग्रनील सर्व एककांच्या निवडीची संभाव्यता ह समान असते अझा ममुना निवड प्रध्वतीला संभाव्यता नम्ना निवड प्रध्वती असे मणतात. "ज्यावेळी समग्रातील सर्व एकव व) गैर संभाव्यता नमुना निवड : (Non Probability Sampling) नमुन्यामध्ये निवड होण्याची शक्यता किंवा सभाव्यता नसने तेवा त्या नेमूना निवड प्रधानीका संभाष्यता नमूना निवड संशोधन पध्दतीत नमुना निवडीचे तंत्रावर संशोधन कार्य पूर्ण होण्यासाटी अवलंबन व महल्लाचे असते. प्रध्वती असे म्हणतात. दोन्ही प्रकारच्या उपप्रकारांची माहिती पुढील्यमाणे संभाव्यता नम्ना मिवड पध्वतीचे प्ढील पाच प्रकार पडतात साधा यादुच्छिक नमुना (Simple Ramdom Sampling) : सम्प्रातील मर्व घटकांन नमुना निवडोन सन्दविष्ट होण्याची ज्या पश्चतीत समान संधीची खात्री असते त्या पश्चतीम साधा बाद्धििक नमुना पश्चती असे जवानत समुहातील एककोतून निवड करण्यासाठी दुर्बीलपेको एका प्रस्तरीया उपयोग केल. वर्त अ) लॉटरी पध्दनी (Ticket Method) : लॉटरी पध्दतीत एकुण एकजाचे नजामीहत क्रमाच देवून कार्ड नवा करतात, शेवटी सर्व कार्ड एकव करून त्यतुनय कारी कार्ड निवडली जानन व) तिकिट पच्यत (Ticket Method) : या पच्यतीत डोळे उघडे ठेवून कार्ड कातनी कनन क) ग्रीड पध्यत (Grid Method) ः या पध्यतीत सर्वप्रथम समयाचा विद्याल क्षेत्राचा नकादन तय-एकक ठरविण्यासाठी निश्चिनी असते, तवाशाका ग्रिडप्लेट ठेवून मंबर निवडले जन्मन जेवहा मनून व्यावयाचा असतो नितकेच क्रमांक त्या फ्लेटवर लिहिलेले असतात ड) नियमित अंकन पच्चती (Regular Marking Method) : ज्यावेळी समझाचे एकक हे काल, स्वान क आधारावच व्यवस्थित असनान तेव्हा नियमित अंकन पंच्वतीद्वारे नमुन्याची निवड केली जने. ई) अनियमित अंकन पध्वन (Irregular Marking Method) - अनियमित अंकन पध्वनीत समन्म तेल मनुव एककोंची सूची बनविली जाने व त्या सूचीमधून पहिला व रोबटचा अंक सोइन वाकी अज्ञाक महोधन क अतियमित प्रथतीने जेवडा नम्ना ठरविलेजा असेल तितवया खुणा करतो. यमध्ये संशोधन कर्ण्याकरून ही अपेक्षा असते को, त्याव पक्षपात न करता नमुन्याची निवड करावी फ) तियेट पध्यत (Tippet Method) . विचारवंत तिय्मेट यांनी ही नमुनः पध्यनी सायित्रजी होने हा अंकवाली १०४० संख्यांची सूची तयार कहन संशोधन कत्योंससंशोधनाचे क्षेत्र्य सूलभ केले ग) कोटा निवड पथ्वती (Quota Sampling Method) : या पथ्वतीन समग्रा के को वर्णन केन्द्रात केने जाते. प्रत्येक वर्णातून किती एकक निवडावयाचे हे ठनविले जाते. या पच्चतीत प्रसपन होण्याची राज्यता आजा २) समीय याइच्छिक नमुना निवंड पध्वती (Statistical Sampling Method) - य कथलेन मम्माक पुष्टेन काल्यांनक समग्र इत्यादा नवज्ञाला (Determination of Selection of Sample Units) : नम्मा निवड २) नम्सा निवडीचे एकक निश्चित करणे (Determination of Selection of Sample Units) : नम्मा निवड प्रतिनिधी असतो. स्तरीय यादुच्छिक नम्ना मिवड पध्वतीचे वपप्रकार खालीलप्रमाणे प्रक्रियेनील दुसरे चरण मरणजे नमुन्याचे एकक मिडिवन करणे होय अ) प्रमाणकर संगीय नमुन (Proportionate Stratified Sampling) ज्य प्रमाणन प्रवास कार्यक अल्डबनाल उसर बरन करने के असे समग्राच्या सर्व एक जाविषयी नियमावलीब अस्ते ३) उगाम सूची (Source List) : ही सुची स्तणाने समग्राच्या सर्व एक जाविषयी नियमावलीब अस्ते

४) नमुन्याचा आकार निदिवत करणे (Determination of Size of Sample) : नमुन्यत्वा आकार पत्र जवाव असन्यास तो मनग्राये प्रतिनिधित्व करीत नाही आणि तो आकार फार मोठा इल्ल्यान संयोधकाया बेळ, अम यांचा अपख्यय होतो. त्यामुळे संशोधकाला खबरदारी ध्यावी लागते. भ) तमुना निवड पध्टती पुरवियो (Selection of Sample Method) समग्राचे स्वरुप, समग्र्यचे स्वरुप, पेळ ्वत्र निर्णत पुरावण (Selection of Sample Method) पैसा, क्षम, उगलव्य साधने इत्यादीया विचार करूनेव नसूना पच्चतीयी निवड करने व्रयस्वर टरने ६) नमुना निवड (Selection of Sample) : निवडलेला नमुना हा विश्वसनीय, प्रतिनिधिक आणि प्रयोधन

एककाचे प्रमाण समग्रात असने त्याच प्रमाणात त्या प्रत्येक वर्षातुन एकक नमुन्यामध्ये निषडले 👓

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 अप्रमाणबण्ड स्तरीय नमुना (Disproportionale Stratified Sampling) : सम्मान एखाता वर्गातील कर्तालव संख्येया विचार न करता सर्व कर्ताल सर्व कार्यत सर्व करता सर्व करात सर्व करता सर्व करा करा करा सरका करा करा सरक करता सरक सरका सरक सरक सरक सरक सरक सरक सरक सरक सरक सरक	<text><text><text><text><list-item><list-item><list-item><list-item></list-item></list-item></list-item></list-item></text></text></text></text>
पध्यत निर्माण होते. नमुना निवडीचे फायदे / गुण (Merits of Sampling): नमुना निवडीचे फायदे / गुण पुढीलप्रमाणे : १) वेळ, श्रम व पैसा यांची वचत होते. १) योग्य अशा तंत्रांचा वापर करून अचुकता साधता येते. १) यापरण्यात येणारी तंत्रे ही लवचिक असतात. १) सवाँच्या वावतीत तपशीलवार माहिती गोळा करणे शवय होते. ५) विद्यसत्तर्य यागरी तंत्रे ही लवचिक असतात. १) सिव्हेवसनीय निष्कर्य कावले जातात. १) विदय्त संत्रासान प्रत्भतेने करता येते. ५) विदय्त संत्रासान सुरूभतेने करता येते. ५) भवाँव उत्तम मुतिसाद व सहकार्य लाभते. ९) अनुपत्वजन्य तथ्ये संपादित करणे शक्य. १०) पाठपुरावा कारसा खार्चिकही नसती. बरील माहितीवरुन चेतालेल्ले गुहितक सन्य उत्लाची दिमून येते. बरील माहितीवरुन चेतालेल्ले पुहितक सन्य उत्लाची दिमून येते. १) अवधड व गुंतगुंतीची पण्यत आहे. १) विदिशष्ट ज्ञाताची गत्व असते.	आवासाहेव गरवारं कलिज, पुणे संशोधक विद्यार्थी पुणे संशोधक विद्यार्थी संशोधक विद्यार्थी
३) छोट्या समग्रात ।नवड करन जिन्दी अक्यता असते.	Radhabai Kale Mahila Mahavidyalaya, Ahmadosgar 274
 ४) पक्षपात किंवा पूलभगवा अपने ५) नमुन्यावर अवलंबून राहण कठीण अपने. 273 Pathabar Kale Mahila Mahavidyalaya, Ahmadnagar. 	Scanned by CamScanner





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प्रस्तावना

भारतात सामाजिक सर्वेधणाचा विकास इतर प्रगत वंशाच्या तूलनेत आतिशय मंद गतीने होत आहे. आज देखील ह्यामिनता सामाजिक सर्वेक्षणाच्या विकासातील प्रमुख अष्ठयळे होत. भारतीय समाज हा रुडी परंपरावादी आहे. शिक्षणाचा अभाष, अंधश्रच्या, परंपगंवरील विद्वास इत्यादी कारणामुळे सचनांना एकत्रित करणे हीच स्वतः एक समस्या आहे. या मर्व कारणामुळे भारतातील सर्वेक्षणाचा विकास अतिशय मंद आहे ज्ञोध निबंधाची उहिष्ट्ये :

- भारतातील ब्रिटीश काळातील सामाजिक सर्वेक्षण अभ्यासणे स्वतंत्र मारतातील सामाजिक सर्वेक्षण अभ्यासणे.
- भारताच्या विकासातून सामाजिक संशोधनाची आवश्यकताचा अभ्यास करणे संशोधनाचे प्रमुख प्रकार अभ्यासणे

जोधनिवंधाची गृहीते

- भारतातील संशोधन संस्थांची सातत्याने वाढ होत आहे.
- भारतातील वाडत्या संशोधन पृथ्वतीमुळे आर्थिक विकासावर परिणाम झालेला दिसून येतो. संज्ञोधन पध्वती :

प्रस्तुत शोध निबंधामध्ये विश्लेषणात्मक मंशोधन पध्यतीचा उपयोग केला असून शोधनिबंधातील विवेचन तुय्यम सधन सामग्रीवर अवलंबून आहे. यासाठी विविध संदर्भग्रंथ, पुस्तके, मासिके, अहबाल, वृत्तपत्रे, संकेतस्थळ (तेवमाईट) इत्यादीचा उपयोग केला आहे

अभ्यास विषयाचे महत्त्व :

भारताच्या अर्थव्यवस्थेसमोर समस्यांचे निराकरण करण्यासाठी संशोधन करणे अत्यंत महत्त्वाचे आहे. संशोधनामुळे देशातील आर्थिक विकासात महत्त्वाची भूमिका आहे. संशोधनामुळे ब्रिटीश कालीन संशोधन व स्वतंत्र भारततील संशोधन तसेच भारतासारख्या विकसनशील देशाला संशोधनाची आवश्यकता का आहे. याचा अभ्यास करण्यासाठी ''भारतात सामाजिक सर्वेक्षणाचा विकास एक चिकित्सक अभ्यास'' हा विषय निवडला आहे. भारतात सामाजिक सर्वेक्षणाचा विकास :

(Development of Social Survey in India) भारतातील सर्वेक्षणाच्या विकासाचे दोन भागात विवेचन पढीलप्रमाणे

अ) ब्रिटीश काळातील सामाजिक सर्वेक्षण : (Social Survey During British Period)

ब्रिटीश काळात सामाजिक सर्वेक्षणाचा अतिशय मंद गतीने का होईना पण विकास होण्यास सुरुवात झाली दुष्ठाळ, मजुरांच्या समस्या, बेकारी, आरोग्य इत्यादी विषयाबाबत सूचनांची आवरयकता भासली म्हणून ब्रिटीश शासनाने वेळोवेळी काही आयोगाची (Royal Commission) नियुक्त केली. त्यांनी वेगवेगळे गॅजेटिअर्स (Gazetteers) तयार केले. १९५० मध्ये सांखिकीय सचिवालय, स्थापन केले. १८९१ पासून दर दहा वर्षानंतर जनगणना करुन त्यासंबंधीचा अहवाल प्रकाशित केले जाते. काही व्यक्तीगत प्रयत्साद्वारे सामाजिक सर्वेक्षणातील विकासात विशेष योगदान देण्यात आले. १९१३ मध्ये सर टी. मोरीसन यांनी Economic Transition In India मद्रास राज्याच्या काही भागात ममाजशास्त्रीय आणि सांख्यिकीय सर्वेक्षण करण्यात यावे. १९१२ मध्ये जी. किंटीम यांनी Rural Economiv in Bombay Deccan. तसेच पंजाब राज्यातील आर्थिक संशोधन बोर्डाचे योगदान उल्लेखनिय आहे. १९१२ मध्ये जहारमध्ये दुधाची पूर्ती करण्याबावतचे संशोधन केले. १९२८ च्या भारतीय कृषीच्या शाही आयोगाने (Royal Commission on India Agriculture) यांनी रोती, कर्जवाजारीपणा, वाजार, प्रामीण जीवनावर विरोध पर दिला. १९२९-३० मध्ये हैद्रावादमध्ये प्रा.एस. केशव आयंगर व १९३७ मध्ये प्रा. डी.आर. गाडगीळ यांनी सर्वेक्षण केले भारतातील विविध जमातीचे सर्वेक्षण वेगवेगळ्या मानसशास्त्रज्ञांनी केले. सर रिजले यांनी १९०६ मध्ये तोंडा, एस.सी गेंय यांनी मुंडा आणि मिल्स यांनी नागा जमातीचे अध्ययन केले.

Radhabai Kale Mahila Mahavidyalaya, Ahmadnagai

"Interdisciplinary Research: Nature & Opportunities ISBN No. 978-93-83401-34-5

a) स्वतंत्र भारतातील सामाजिक सर्वेक्षण (Social Survey in Independent India) स्वतंत्र भारतातील सामाजिक सर्वेक्षणातील संस्थांचे योगदान पढीलप्रमाणे

- मॅझनल सॅम्मल सर्वे : (National Sample Survey-१९५०) : या राष्ट्रीय संस्थेद्वारे संपूर्ण भारतातील जातिक व सामाजिक परिस्थिती आणि स्तराच्या संबंधात सुचना एकत्रित करणे, पंचवार्षिक योजना तयार करणे, समाह जीवनाच्या कुटुंबांचा आकार, उत्पन्न, खचांचे स्वरुप, बेकारी, ग्रामीण शेतमजूर इत्यादी संबंधात महत्त्वपूर्ज तथ्याचे संकलन केले आहे.
- २) संशोधन कार्यक्रम समिती :- (Research Programme Committee) या समितीद्वारे विविध प्रकारकत सर्वेक्षणांना प्रोत्साहन देणे त्यांना आधिक मदत देणे, विविध सर्वेक्षण योजनांना स्वीकृती देणे, पुणे, हंडावाड दिल्ली, मद्रास आणि मुंबईचे सामाजिक आर्थिक सर्वेक्षण, मुरादाबाद व शिवकाशी येथील लघ उगोलक सर्वेक्षण आणि शेतीवरील अधिकारासंबंधी कायद्याचे सामाजिक आर्थिक परिणामाचे अध्ययन करणे, गाव आणि शहरातील आर्थिक संरचना, सामाजिक गतीड़िलिता, मजुर आणि मिल मालकांच्या पारंपारिक संबंधाशी संबंधित प्रवन, बेकारी आणि भूमिस्धार इत्यादी सर्वेक्षणाबाबत या समितीचे विशेष महत्त्व आहे.
- ३) नेशनल कौस्सिल ऑफ ॲप्लाईड इकॉनॉमिक्स : (National Council of Applied Economics Research NCAER) : या संस्थेने अनेक महत्त्वपूर्ण सर्वेक्षण केले आहेत. दिल्ली येथील वचत संबंधीत मुंबई, डिल्ली मद्राप्त, कानपुर इत्यादी शहरात सामाजिक, आधिक परिस्थितीचे सर्वेक्षण केले. अमेरिकन मॉडेल प्रमाणेच हो संस्था आपल्या सर्वेक्षणात रसायन शास्त्र, इलेक्ट्रीकल इंजीनिअर, वन, वाहतूक, अर्थशाम्ब आणि मॉस्ट्रिकी विशेषत्त्वाच्या संशोधनाचा आणि तांत्रिक ज्ञानाचा समन्वय करण्याचा प्रयत्म करते, त्यामुळे सद्यस्थिती आणि विकासाच्या संभाव्य दिशेबाबत प्रयोगसिध्द ज्ञान प्राप्त होऊ शकेल.
- ४) लोकमत सर्वेक्षण : (Public Opinions Survey) : लोकमतच्या संबंधित सर्वेक्षणास प्रोत्साहन देण्यामाडी Indian Institute of Public Opinion या संस्थेची स्थापना केली. Public Opinion Surveys मामिक प्रकाशित केले जाते. या मासिकात विभिन्न सामाजिक, आर्थिक आणि राजकीय विषयावर भारतीय लोकमतावर प्रकाश टाकणारे लेख छापले जाते.
- (a) विश्वविद्यालयाद्वारा सर्वेक्षण : (University Surveys) : अनेक विद्यापीठात एम.फील., एम.ए. चे लघुशोध प्रबंध, पी.एच.डी. चे संशोधन कार्य केले जाते. या संशोधन कार्यात सर्वेक्षण पथ्यतीचा अवलंब केला जातो त्याचप्रमाणे विद्यापीठ अनुदान आयोगाच्या मंदनीने विविध विषयावरील सर्वेक्षण विद्यापीठ करीत असते
- ६) इतर संस्था : इंडियन इन्स्टिट्यूट ऑफ कम्युनिटी डेव्हलपमेंट (Indian Institute of Community Development) : गोखले इंस्टिट्यूट ऑफ पॉलिटीक्स अँड इकॉनॉमिक्स (Gokhale Institute of Politics and Economics) स्टॅटिस्टिकल इन्स्टिट्यूट कलकला. (Statistical Institute, Calcutta) इन्स्टिट्यूट ऑफ सोशल सायन्सेस (Tata Institute of Social Sciences), आग्रा इन्स्टिट्यूट ऑफ सोशल सायन्सेस (Agra Institute of Social Sciences) आणि दिल्ली स्कुल ऑफ सोदाल वर्क्स (Delhi School of Social Work) या संस्थांचे सामाजिक सर्वेक्षण कार्यासंबंधी विशेष योगदान आहे.

वरील माहितीनसार भारतातील संशोधन संस्थांची सातत्याने वाढ झालेली दिसून येते. तसेच मांडण्यात आलेले गहितक सत्य उरल्याचे दिसन येते.

भारतासारख्या विकसन देशान सामजिक संशोधनाची आवश्यकता : (Need of Social Research in Developing Countries like India) - विकसित देशाच्या तुलनेने विकसनशिल देशात सामाजिक संशोधनाधी किनी आवश्यक

- १. अज्ञानाचा नाश करणे : Removal of Ignorance : सामाजिक विविध विषयाचे वस्तुनिष्ठ ज्ञान प्राप्त केले जाते आणि या जानाचा प्रसार करून समाजातील अज्ञान नष्ट करणे शक्य आहे.
- २ अंधविदवासाचा नाश करणे : (To Removal of Dogmatism) भारतीय समाजातील आशिक्षित लोकच नवे तर सजिक्षित लोकसुध्या अंधश्रध्या पाळनात. म्हणून सामाजिक संशोधनाद्वारे संबंधित विषयावर सज्ञोधन करन लोकांमधील अंधवित्रवास नष्ट करणे शक्य आहे.
- 3. सामाजिक परिवर्तनाची दिशा जाणण्यासाठी : (To understand the Direction of Social Chang भारतीय समाजात शौध्रगतीने परिवर्तन होत असून त्यामध्ये नवीन विचार, नव्या संस्था, प्रथा, परंपरा निर्मा

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झाल्या असून ते योग्य दिशेने होणे आवश्यक आहे. अन्यथा अव्यवस्था निर्माण होईल त्याकरिता सामाजिक संशोधन योग्य दिशेने सामाजिक परिवर्तन घडून आणले जाते.

- ४. सामाजिक समस्यांच्या निराकरणासाठी (To Solve the Social Problems) : देशातील बेकारी, दारिद्र्य, गुन्हेगारी, बाल गुन्हेगारी, जाती संघर्ष, मद्यपानांची समस्या इत्यादी विविध समस्याविषयीचे वस्तुनिष्ठ ज्ञान प्राप्त करणो आवरुराक आहे मा जन्म करणे आवश्यक आहे या ज्ञानाचा उपयोग करन सामाजिक समस्यांचे निराकरण करता येते.
- ५. योजनेच्या यशस्वितेसाठी : (To Success of Planning) शासकीय योजनेस लोकांचे सहकार्य का मिळत नाही त्याची कारणे कोणती, शासकीय योजना अवशस्वी का ठरतात इत्यादी वर सामाजिक संशोधन करुन योजनांची आखणी केल्यास लोकांचे सहकार्य प्राप्त होऊ शकेल.
- ६. प्रभावी सामाजिक नियंत्रण : (Effective Social Control) : भारतामध्ये परंपरागत साधनाएंवजी कायदे, न्यायालये, पोलिस व्यवस्था इत्यादी नवीन साधनांचा प्रभावी नियंत्रण करणे ही एक मोठी समस्या आहे. त्यामुळे सामाजिक संशोधनातून प्राप्त केलेल्या ज्ञानाचा विशेष उपयोग होतो.
- ७. राष्ट्रीय एकता : (National Integration) : भारतीय समाजात विविधता असल्यामुळे एकात्मतेची समस्या निर्माण झाली आहे. त्यासंबंधीत घटकांचे संशोधन करुन अडथळे दूर करण्याबाबत काही उपाययोजना सुचविता येतात व समाजातील लोकांची दृष्टी विशाल बनविण्यास अतिशय उपयुक्त आहे.

वरील माहितीवरुन भारतातील वाढत्या संशोधनामुळे आर्थिक विकास अनुकुल परिणाम झालेला दिसून येतो. तसेच मांडण्यात आलेले गृहितक सत्य ठरल्याचे दिसून येते.

सारांग :

भारतातील सामाजिक संशोधनाचा विकास मंद गतीने होत आहे. त्यामध्ये ब्रिटीश काळातील सामाजिक सर्वेक्षणाचे विकासात फार मोठे योगदान असून विकास होण्यास सुरुवात झालेली आहे. जनगणनेचे विशेष महत्त्व प्राप्त झाले आहे. त्यानंतर स्वतंत्र भारतातील सामाजिक समस्यांचे निराकरण करण्यासाठी अनेक सर्वेक्षण संस्थांची स्थापना त्याद्वारे दिलेल्या उपाययोजनावर कार्यक्रम आखून आर्थिक विकासासाठी कार्य केले जाते. भारता सारख्या विकसनशील देशासाठी सर्वेक्षणाची आवश्यकता मोठ्या प्रमाणात दिसून येते. सर्वेक्षणामुळे आर्थिक विकासावर अनुकुल परिणाम दिसून येतो. त्यामध्ये अज्ञान व अंधश्रध्दा दूर करणे, राष्ट्रीय एकता जोपासणे, सामाजिक समस्यांचे निराकरण, परिवर्तन झाल्यामुळे आर्थिक विकासात महत्तवाचे योगदान दिसून येते. तसेच संशोधनाचे विविध प्रकार पाडून संशोधनात अचुकता येते. निष्कर्ष:

- भारतातील ब्रिटीश काळात सामाजिक सर्वेक्षण विकास झालेला दिसून येतो.
- २) स्वतंत्र भारतातील सामाजिक सर्वेक्षणासाठी अनेक महत्त्वपूर्ण संस्थांची स्थापना करुन त्यांनी सांगितलेल्या उपाययोजनांची अंमलबजावणी करताना दिसून येते
- 3) भारतासारख्या विकसनशील देशाने संशोधनाने आर्थिक विकासासाठी आवश्यक ते प्रयत्न केले आहे.
- ४) भारतामध्ये आर्थिक विकासासाठी व विविध समस्या निराकरणासाठी संशोधनाची आवश्यकता दिसून येते.
- ५) संशोधनाचे आठ प्रकार पडतात. त्यामध्ये वर्णनात्मक संशोधन, विश्लेषणात्मक संशोधन, मुलभूत संशोधन, उपयोजित संशोधन, गुणात्मक संशोधन, संख्यात्मक संशोधन, संकल्पनात्मक संशोधन व अनुभवाधिष्ठित संशोधन इत्यादी होय.

संदर्भ ग्रंथ :

- १) डॉ. प्रदीप आगलावे, संशोधन पच्दतीशास्त्र व तंत्रे, विद्या प्रकाशन, नागपूर (२०००).
- २) डॉ. रा.रं. बोरुडे, संशोधन पथ्वतीशास्त्र, पुणे, विद्यार्थी गृह प्रकाशन, पुणे (२००५).
- प्रा. डॉ. सुधीर बोधनकर, प्रा. विवेल अलोणी, ऑड. मृणाल कुलकर्णी, सामाजिक संशोधन पध्दती, श्री साईनाथ प्रकाशन, नागपूर.
- ४) डॉ. सुमन बेहरे, सामाजिक संशोधन पध्वती, विद्या प्रकाशन, नागपूर (१९९८).
- ५) प्रा. डॉ. सुनील मायी, सामाजिक संशोधन पध्वती, डायमंड पब्लिकेशन, पुणे (२००८).
- कु. शायिन यासिन शेख. पा. डॉ. श्रीमती. व्ही.डी. पाटील संशोधन विद्यार्थिनी अर्थवास्त्र विभाग प्रमुख,

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4

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29	डॉ.सौ.पाटील व्ही.डी. कु.शेख शायीन यासिन	डॉ.बाबासाहेब यांच्या शेती व चलनविषयक विचारांचा परिणाम : एक विश्लेषण	200	
0	डॉ.विश्वास आर कदम	डॉ.बाबासाहेब आंबेडकर यांचे शेतीविषयक विचार	204	
I	प्रा.डॉ.बी.एम वाघमोडे प्रा.डॉ.बी.बी.कांदळकर	डॉ.बावासाहेब आंबेडकरांचे आर्थिक विचार : एक अभ्यास	210	

''डॉ. बाबासाहेब यांचे शेती व चलन विषयक विचारांचा परिणाम. एक विष्लेषण"

सौ.डॉ.पाटील व्ही. डी	कु	. शख शाायिन यासिन
FILL THE PARTY PARTY		संशोधक विद्यार्थीनी
राधाबाई काळे	महिला माहाविद्याल	य, अहमदनगर

प्रस्तावनाः--

दलितांचे कैवारी, भारतीय राज्यघटनेचे शिल्पकार आणि भारतरल डॉ बाबासाहेब आंबेडकर यांचा जन्म मध्य प्रदेशातील महु या गावी 14 एप्रिल 1891

साली झाला. त्यांनी अमेरीका व इंग्लंड मध्ये एम. ए., पी.एचडी. एम.एस.सी, डी.एस. सो., कायदश्याचे बॅरिस्टर इतक्या पदवी संपादन केल्या. दलीतावरील अन्यायाची जाणीव करून देण्यासाठी 'मुक नायक' हे पाक्षिक, 'बहिश्त हितकरणी सभा' ही संस्था स्थापन केली. 'बहिश्त भारत' हे साप्ताहिक तर 'शिकवा, चेतवा आणि रांघटित करा' हे त्रिद वाक्य असून स्वामिमान, स्वावलंबन, आत्मोध्दार ही तत्वे बाबासाहेबांची होती. 1927 मध्ये महाडमध्ये चवदार तळयासाठी सत्याग्रह व नाशिक मध्ये काळाराम मंदीरात सत्याग्रह करून अस्पृशांना प्रवेशबंधी उठविण्याचा प्रयत्न केला. गोलमेज परिशद व पुणे करार आणि भारतीय राज्यघटनेचे मसुदा अध्यक्ष म्हणून त्यांनी महत्त्वाचे कार्य केले आहे.

सशोधनाची उद्दिष्टे :--

1. डों. बाबासाहेब आंबेडकर यांचे शेतीविशयक विचार अभ्यासणे.

2. डॉ. बाबासाहेब आंबेडकर यांचे चलनविशयक विचार अभ्यासणे.

शोधनिबंधाची गृहितके :--

1. डॉ. बाबासाहेब आंबेडकर यांच्या शेती व चलनविषयक विचारामूळे समाजावर विधायक परिणाम झालेला आहे.

शोधनिबंधाचे महत्त्व :--

भारतीय समाजावर हजारो वर्ष असणारी सामाजिक गुलामगीरी, अन्याय, धर्मातील जाचक रूढी सहन करणाऱ्या दलीत समाजातील व शेतकरी वर्गासाठी डॉ. बाबासाहेब आंबेडकर यांचे शेती व चलन विषयक विचाराचे परिणाम कसे होतात. याचा अभ्यास करण्यासाठी "डॉ. बाबासाहेब यांचे शेती व चलन विषयक विचारांचा परिणामः एक विश्लेषण" या विशयाची निवड केली आहे संशोधन पघ्दती :-

प्रस्तुत शोध निबंधांमध्ये विश्लेषणात्मक संशोधन पष्ट्रतीचा उपयोग 200

केला असून शोध निवंधातील विवेचन तुम्यम राणन राम्युसीवर अवलंबुन आहे. कला गर्भ यासाठी विविध संदर्भ ग्रंथ, पुरतके, गारिकि, अडवाल, वृत्तपत्रे व संकेतरशक इत्याय गांच आंधेडकर यांचे शेती विषयक विचार :--

छा. बाबासाहेब आंबेडकर यांचे भारतीय शेरीविषयक विचार पुढील प्रमाणे आहे. भारतातील लाहान धारनक्षेत्रे आणि त्यावरिल उपाय' हा लेख भारताच्या शेती प्रश्नावरील असून या लेखाचे तीन भागात विश्लेशण केले आहे. पहिल्या भागामध्य श्रेतीच्या धारण क्षेत्राच्या आकारमाना विशयक सगरया. दुसऱ्या भागामध्ये त्यांनी छोट्या धारण क्षेत्राच्या आकडेवारीचे विश्लेशण केले आहे. तीसऱ्या भागामध्ये उपाय योजनामध्ये धारण क्षेत्राचे एकत्रिकरण व विरतार यावर विश्लेषण केले आहे. त्यामध्ये भांडवल आणि भांडवली साधन सामुग्रीची उत्पादकता वाढविणे, औद्योगिकरण करणे इत्यादी विषयक विचार मांडले आहे.

1. कोकणात आढळून येणारी खोत ही जमीनधारा पघ्दत रद्द करण्यासाठी 1937 मध्ये मुवंई कायदे मंडळात विधेयक मांडले. त्यामध्ये शेती कराणाऱ्यांचे शोषण थांवविणे व शासनाशी प्रत्यक्ष संबंध प्रस्तापीत करणे. डॉ बाबासाहेव यांनी जमीन सुधारणा विषयक कायदचााची सुरूवात केली.

2. औद्योगिक अमीकाप्रमाणे शेतमजुरांनाही भविष्य निर्वाह निधी, आरोग्य विमा, नुकसान भरपाई मिळाव्यात असे विचार त्यांनी मांडले.

3. डॉ वावासाहेव आंवेडकरांनी सामुहिक शेती व यांत्रिकीकरणाचा शेतीमध्ये उत्पादन वाढविण्यासाठी खात्रीशीर मार्ग आहे, असे विचार मांडले.

4. भारतीय शेती व्यवरथेच्या संदर्भात डॉ वावासाहेव यांनी निर्श्वक रोजगार किंवा आवश्यक रोजगार ही संकल्पाना मांडली.

5. डॉ वावासाहेब आंबेडकर यांनी निश्किय भांडवल आणि निश्किय श्रम यातील फरका विषयी विचार मांडले.

6. भारतातील शेतीक्षेत्रातील निष्क्रिय श्रमाची समस्या औद्योगिकरणाला चालना देवून सोडवता येवू शकते असे, विचार डॉ बाबासाहेबानी मांडले.

ब. डॉ. बाबासाहेब आंबेडकर यांचे चलनविषयक विचार :--

डॉ. वावासाहेव आंवेडकर यांचे भारतीय चलनविषयक विचार पुढील प्रमाणे आहे.

डॉ. बाबासाहेबांनी लंडनमध्ये कॅनन यांच्या मार्गदर्शनाखाली 'रूपयाचा प्रश्न' हा संशोधनात्मक प्रबंध लिहला आहे. त्यामध्ये त्यांनी भारतीय रूपयाचा ऐतिहासिक

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आढावा, भारतीय रूपयाची जडण-घडण ही सुवर्ण परिणामात किंवा सुवर्ण आजाया. गरेणामात्त याचावत तुलनात्मक अध्ययन केले आहे. त्यामध्ये सुवर्ण विनीमय परिणामात्त याचावत तुलनात्मक अध्ययन केले आहे. त्यामध्ये सुवर्ण परिणाम लयचिक असून भविष्यकालीन अर्थव्यवरणेसाठी उपयुक्त असून कॅन्सच्या सुवर्ण विनीमस परिणामाला विरोध केला आहे. कारण त्यामुळे सुवर्ण परिणामामुळे अधंच्यवस्थेत रथेर्य राहत नाही. आवश्यकते पेक्षा जारत चलन निर्मातीमुळे भाव चाढ होईल हे शिध्द करण्यासाठी डॉ. वाबासाहेबांनी हिल्टन यंग कगिशनपुढे अर्थशास्त्रज्ञ म्हणुन ऐतिहारिक पुरावे दिले. त्यामध्ये सुवर्ण विनिमय परिणाम रिवकारल्यावर किंमती वाढल गेल्या याचे विवेचन केले आहे. तरोच 1926 मध्ये रूपयाची किंमत रिथर राहिली तर वस्तुच्या किंमती रिथर राहतील व महागाई वाढणार नाही अरो मत आंवेडकरांनी भारतीय अर्थव्यवरथेत संबंधित रॉयल कमिशन पुढे मांडले होते. तरोच 1875 पाराून पौंडाच्या तुलनेत रूपयात घसरण होऊन लाखो रूपयाचे कर ब्रिटिश सरकारने भारतीय जनतेवर लादले. त्यावर डॉ. वाबासाहेबांनी भारतीय रूपया व लंडनच्या पोंडशी असलेल्या संबंधाचा अभ्यास करून चलन मर्यावित करण्यासाठी दोन मार्ग सुचविले 1. वलन रूपांतर करता आले पाहिजे. 2. चलन निर्भांती यावर गर्यादा घातली पाहिजे, असे डॉ. वावासाहेव आंबेडकरांनी चलन विषयक विचार मांडले होते.

अशा प्रकारे वरिल माहिती वरून असे स्पश्ट होते की, घेतलेले मृहितत्ये सत्य ठरल्याचे दिसून येते.

सारांशः-

भारतीय अर्थव्यवस्थे समोर असणाऱ्या समारन्यामध्ये अस्पुश्याचे निमुर्लन शेती विषयक समस्या, चलन विषयक समस्या, राज्यकिय व आर्थिक समस्या, जमीण सुधारणा, समाजवादाची अंबलवजावणी, रोजगार, यांत्रीकिकरण, सामुहिक शेती विशयी मांडलेले विचार आजही लागू होतांना दिसून येते.

निष्कर्षः-

1.डॉ. बाबासाहेब आंबेडकर यांनी शेती विषयक विचारामध्ये यांत्रीकिकरण, रामुहिक शेती, छुपी वेकारी व खोत पध्दती वंद करण्यासाठी विचार मांडले आहे.

2.भारतीय अर्थव्यवरथेसमोर असणाऱ्या भारतीय रूपयांचे प्रश्न सोखविण्यासाठी जॉ

3.डॉ. बाबासाहेब यांच्या शेती व चलन विशयक विचारामुळे भारतीय अर्थव्यवस्थेव विधायक परिणाम दिसून येतो. संदर्भ ग्रंथ :-

1.कुंभार अनसुया, त्रिवार वंदन तुम्हा, विद्याभारती प्रकाशन लातुर. जानेवारी 2013 प्रथम आवृत्ती.

2.कदम डी. एस., दातीर आर. के., चिंतामणी आर. एम., जाधव ए. पी., आर्थिक विचारांचा

इतिहास, प्रगती बुक प्रा. लि. पुणे. जानेवारी 2005 प्रथम आवृत्ती.

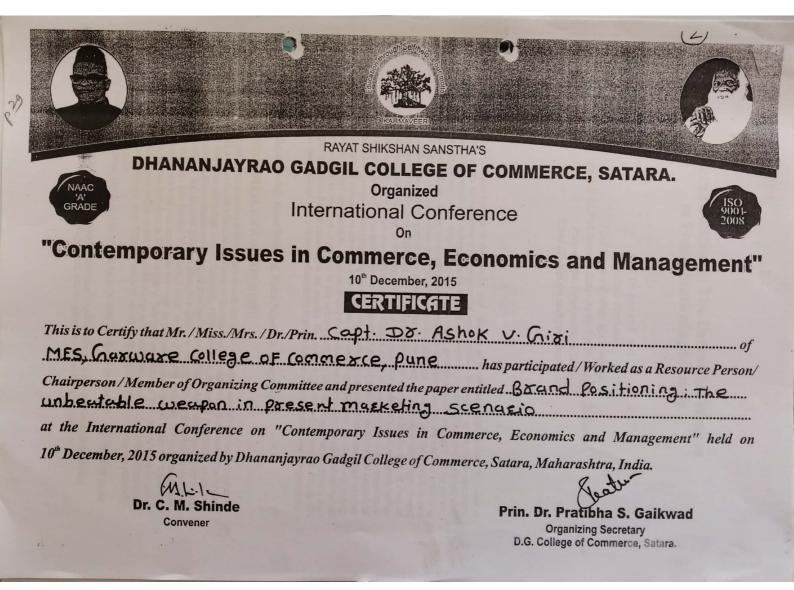
3.कुलकर्णी बी. डी. व ढमढेरे एस. व्ही., आर्थिक विचार व विचारवंत, डायमंड

पुणे. ऑगस्ट 2008 प्रथम आवृत्ती.

4.कीर धनंजय, डॉ. बाबासाहेब आंबेडकर, पॉपिलर पब्लिकेश्न मुंबई, ऑक्टोंबर 1989

सहावी आवृत्ती.

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Brand Positioning: The Unbeatable Weapon in Present Marketing Scenario

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Abstract

Over the decades, the sea change in the attitudes and lifestyles of people provided various big ideas to marketers, which can be nurtured out of changing social needs, desires and values of the target customers. These innovative ideas resulted in reshaping the thinking of marketers by first identifying and understanding the needs and expectations of the target group and then to come up with suitable products. In the present scenario, the innovations are taking place rapidly but even the best demanded brands are not sure regarding their survival because the innovations are difficult to develop and easy to copy. So, the marketers are continuously seeking the distinct positions for their brands in the minds of customers and hence brand positioning has emerged as the most challenging job in today's mature and overcrowded markets. It aims at imprinting a differentiated image of the brand in the minds of the prospective customers. According to Charles Mittelstadt, "Positioning refers to how you want your brand 'thought about' in connection with the competitors in its product category. It needs to be specific to your brand aimed at specific target audience". A successful brand positioning strategy concentrates on finding out the strong position in customer's mind and then sitting on it, which leads to gain the competitive advantage in the market. The marketing managers are constantly facing the dilemma to position and reposition the brands according to the changing perceptions, needs and desires of the customers. Therefore, in the light of this fact, in this present study, we tend to focus upon describing the various strategies to position brands accurately in the market. The objective of our study is twofold. Firstly, to contemplate the basic concept of positioning and secondly, to give a brief account of puzzles and advancements

Keywords: Brand, Marketing, Brand Positioning, Brand Personality, brand loyalty.

POSITIONINGASAVITALTOOLOFMARKETING

Positioning emerged as a vital tool to understand how brands are positioned in the mind of customer in relation to relevant attributes. It is based on the functional attributes or the emotional associations with the brand. Positioning is the pursuit of differential advantage (Subroto Sengupta, 1999). Whatever the brand positioning strategy is opted by the organization, the customers and employees must get the clarity about what differentiates your brand. The organization will bear less expense if it adopts the right positioning strategy with right marketing mix aimed at specific target audience. The brands, which have a clear vision, a concise meaning and understand their parameters of relevance, are well positioned. Nike has done its positioning as: "Athletic Shoes for Winners"-Whatever you want, you can 'just do it' in Nikes. Similarly, 7-up positioned itself as 'The Uncola' drink by using colas as a frame of reference which creates its distinct image in the soft drink market. So the marketers must discover the positions which can award them the competitive advantage. Further, these positions are generally

(a) Functional Positions, which can be achieved by providing benefits of the product and solutions to the (b) Symbolic Positions, which can be attained by enhancing the self-image, ego-identification and satisfaction.

(c) Experiential Positions, by providing the prospects, sensory pleasures and cognitive stimulations.

SIGNIFICANCE OF POSITIONING

Positioning is the hub of business wheel

Positioning is the basis of everything done in business. No brand can be built effectively and no consistent image can be conveyed until a strong brand positioning is developed. Positioning is the foundation of R&D, Product development, Branding, Pricing, Packaging, Advertising, Promotion, Merchandising, Publicity, Distribution Desition of Records and Provide Advertising.

Positioning can beat the competition

Today, the markets are flooded with clones or a sea of homogeneous products. The only way to cross this sea is to create and communicate a distinct image which makes the customers convinced to choose your brand over the competitor's brands. Lifebuoy occupies the 'Hygiene' position. The original version of Lifebuoy was targeted to rural segment. The Double-action plus was for urban teenagers (Boys) and Lifebuoy Gold for young girls, but in all, the position was same i.e. Germ-Killing action. On the other hand, Margo is in 'Herbal' position and Mysore sandal in 'pure and natural fragrance' slot.

Positioning drives growth

Unfortunately, many organizations tend to focus upon making products rather than building brands. Product is something which is made in a factory, whereas brands are made in the mind. A good brand name combined with strong and clearly defined positioning leads to excellent market performance and increased market share and profits.

Positioning creates brand loyalty

We are in the habit of using at least one brand of a particular product in our daily life. We keep on using that product until the manufacturer changes the product. This brand loyalty is created by strong positioning which makes the customer feel that there is no perfect substitute available in the market for their preferred brand.

POSITIONING A PRODUCT IN THE MARKETPLACE

The pillar of positioning is based on the foundation of market segmentation i.e. partitioning the market into homogeneous groups of the potential customers. To engrave a strong position for the product, marketers first have to divide the market in unique segments and then select the target segments. After discovering the way to reach the market, the next step is how to attract the customers to try their products. In the monopolistic market, though too many brands are functionally similar, yet the firm can adopt various positioning strategies, which help it to differentiate its brands on one facet or the other.

Quality

Quality had been the base of positioning and the efforts are put together to build the dominant perception of quality. It can be built up by focusing on limited range of products, specializing in them and it can also be achieved by attaching higher price tag to the brand. To some customers, a higher price tag provides the psychological satisfaction but a product must also have some uniqueness to justify the price. Eureka Forbes, Sony, Levi, Microsoft owned this qualitative perception for their products. The positioning at the lower end of price-quality range embraces the problem of upgrading the image of the product.

Features

Sticking to the facts about the product brings the credibility in positioning, either it is VW's.. 'Think Small' on the introduction of Beetle, Onida's.. 'Science of Sound' or 'Avis' the rental cars 'We Try Harder.' Product feature positioning can range from specific physical benefits to more abstract features.

Benefits

Markets overwhelmed with the brands similar in features, open doors to position on the basis of the benefits of products. This is superior convincing strategy as it aims at providing the reason to purchase the solution of the problem like Frozen meals save time of preparation, Crest reduces cavities, Head & Shoulders clears dandruff.

2.1

Value

Once the good value brands were thought to be inexpensive, but today they are more popular amongst consumers. Coca-Cola & Pepsi, besides meeting with various controversies, are still well-liked by people because of the status symbol. People don't visit McDonalds because of the services offered but for the reason that they love to be seen there. They feel proud to talk about these brands. Besides keeping hold of the strong identity, McDonalds nicely announced the 'Happy Price Menu' leaving the competitors to think about new ways.

Usage

Another influential differentiating strategy is positioning the product according to the usage occasions. Some organizations reflected the courage to dominate the usage position in the market like Dettol antiseptic for nicks and cuts. Further, Vicks Vaporub is sitting on the unchallengeable usage positioning of 'cold at night'. Dettol Soap perfectly grilled the idea of '100% bath' to refresh you up.

User Category

Delving deeply into the segment, positioning prompts are decided keeping in mind the target customers; who should buy the product. Nestlé's Cerelac, the easily digestive cereal food and Johnson & Johnson's mild shampoo were positioned for babies. Further positioning Complan for 'Growing Children' and communicating 'I am a Complan boy. No, I am a Complan girl' in their ads, Glaxo Laboratories created a distinct image in the customer's mind.

Competition

Product's superiority can be demonstrated by comparing it directly with competitors. Some organizations adopt this aggressive positioning strategy to justify that how 'their' brand is superior. This process is followed in two ways. Firstly, by *comparative advertisements*, and secondly, by *relating your brand with the No. 1 brand*. In comparative advertisements, the product is compared with the competitor's product which is not named but can be recognized by people and then after comparison of attributes, superiority of 'our' product is justified. Cold Drinks and laundry detergents are going head to head to prove themselves better. Further if your brand is not No. 1, relate it with No. 1. Avis followed this 'Against Position Strategy' by stating "Avis is only No. 2 in rent-a-cars, so why go with us? We try harder." This was a success as consumers start relating No.2 Avis to No. 1 Hertz (Ries & Trout, 2003).

Looking inside the prospect's mind

By ignoring the conventional logics, a unique position can be found out by digging up the minds of prospects, not by looking inside the organization and product. 7-Up is still on the unbeatable position of 'The Uncola Drink' as it was able and successful to discover & extract the 'Uncola' idea from the mind of the soft drink consumer and did not look inside the product.

Hunting Holes

Exploring the unoccupied positions (not grabbed by the competitors) and getting first to the mind provides a powerful weapon in the hands of marketers to position their brands. 7-Up used 'Uncola' idea, Maggi noodles used the idea of '2-Minutes', and VW introduced Beetle in small segment by saying 'Think Small'. Further IBM was first to position the computer, yet it was not the first to invent it. Emami was the first to introduce and position 'Fair & Handsome', a fairness cream in male segment in India. Here we would like to add one more thing that if a company is first to introduce the product in market, then this fact must be emphasized to draw the attention of prospects. Coca-Cola beautifully discovered 'The Real Thing' implying that the competitors are just imitators.

Multibrand /Single Position

The pace of new technology provides numerous opportunities to enter into new markets which award the leaders with the chance of introducing multiple brands rather than changing existing brands holding the leading positions. Introducing and positioning a new brand is much more economical and simpler rather than changing the existing ones. Reliance is continuously grabbing this strategy by entering into new fields. Ries and Trout named this as a single position strategy as each brand owns a static position in the mind of the customer. Success can also be achieved by focusing on a single theme. Nokia 'Connecting People' and Amul 'The Taste of India' have been able to achieve success by focusing on a single theme and reflecting it in their communication mix respectively.

PREREQUISITES OF AN EFFECTIVE BRAND POSITIONING STRATEGY

The insight of consumer behavior is necessary for drafting a successful positioning strategy. Here, the central idea is to focus upon what consumers think about brands rather than what we think. So, positioning requires the extensive research and perfect understanding of consumers as well as brands on the different aspects such as needs of customers, product category, target segment, competition, benefits, perceptions, brand personality.

(a) Needs of customers

A good place to start with is by identifying the existing and emerging needs of the customers in the marketplace. To get a clear understanding of consumer needs, one should keep in consideration that two different types of needs exist. Functional needs and emotional needs. Functional needs are more tangible, whereas emotional needs are related to emotions or psychographic factors like self-image, status symbol, desire to be different, lifestyle, values, attitudes and beliefs etc. It is impossible to ignore any need, but the homework is related to what type of need is more important in the segment. No doubt that functional need is important but sometimes like in the case of perfumes and cosmetics, emotional needs are more important than functional needs.

(b) Product Category

Product class or product category is the set of all the products, which the consumers perceive as substitutes to satisfy the specific need. It consists of all the alternatives that the consumers can go for while facing some problem. Suppose, if a person wants snacks, then he is having various alternatives. He can either go for ready-to-eat snacks, mostly available at home, like biscuits, wafers; peanuts etc. or he can go for snacks prepared at home like pakora, sandwich, noodles, papad, dhokla etc. He can also purchase snacks from the market like samosa, pakora, burger etc.

Similarly, if a person is suffering from headache, then also he can go for a number of modes. He can take tea or drink something else, lie down or have a sleep, get a massage, take some medicinc, go for the acupuncture exercise or visit the doctor.

Since, the consumers are having a plethora of alternatives to choose from, the marketers must have the knowledge of all these ways. Identifying these options and studying them in detail helps in identifying the product category, i.e. in which class, our product will enter, which in turn will help in defining the competition.

(c) Target Segment

The next step on the ladder is finding out the target customers for our product. It involves the understanding of demographic, psychographic and usage behavior of the customers in that product category. All the audience cannot come in target segment because one positioning cannot appeal to everybody. Only those customers will be targeted who are having similar needs. Thums-Up targets those who are adventurous by saying 'Taste the Thunder'. Pepsi targets who thinks 'Young' and American Express targets 'Prestige conscious, frequent travelers, who crave recognition, attention and special service'. So, after digging out the right customers, it is important to communicate them, that this is the perfect brand which can best satisfy their needs.

(d) Competition

Product category defines the competition. The companies wish to enter in the product category grilled with less or no competition. But the reality is far beyond this situation. To face reality and to cope up with the marketing warfare, four ways are suggested.

- 1. Defensive Mode: Only the market leader can defend himself by strengthening his own position. Position can be strengthened by bringing out the new innovations in new products/ services that supersede his own existing ones. e.g., Nokia and Gillette.
- Offensive mode: This is followed by the follower by searching out the negative in the leader's positioning and attacking on that negative. e.g., Vicks Vaporub.
- 3. Flanking mode: All the segments cannot be occupied by the market leader. So, the neglected segment is occupied.e.g., Complan.

4. Guerilla mode: Finding out the niche in the market. Niche is a very small part of the market, where the volumes are very low but margins are very high. e.g., Rolls Royce.

Earlier, while analyzing the competitive framework, the companies used to consider standard of identity but today, new ways to look at competition have emerged. Now power brands adopt perceptual competitive framework e.g. Nestle is not selling Nescafe merely as a coffee, but it is a brand associated with achievement and freedom. It is something that rejuvenates you and freshens you up and prepares you for the whole day. In the same line, Nokia is not just selling cell phones; it is selling 'Fashion Accessories'. McDonald's is not competing in the fast food industry but in the 'Family Entertainment' business. Mercedes is not merely selling the cars but selling 'Self-esteem'.

(e) Benefits

People purchase benefits. Benefits convey strong reason to the customer that why they should go for a particular product. So, while framing the positioning strategy, benefits should be given due consideration, because they can provide the competitive advantage in the market, if not exploited by the competitors. While considering the benefits, the marketers are mostly in the situation of flux that whether to concentrate on functional/physical benefits or on emotional benefits. Like functional needs, functional benefits are more tangible and measurable. For example, Colgate helps in decay prevention, Maruti Suzuki is India's most fuel-efficient car, Tide removes tough stains and brightens the clothes etc. But the brand loyalty or the sense of belongingness cannot be achieved just by achieving the functional end. Belongingness comes with the emotions. So, the positioning strategy must be framed by ensuring that the brand is conveying functional as well as emotional benefits.

Further, Dettol kills germs. This is the functional aspect but the housewife is feeling relaxed that her family is safe is the emotional aspect of the brand. 'Fairness' by Fair & Lovely is the physical benefit, but it connects deeply with the emotions which bring the annoyed 'Lucky Girl' out of the fear that she will be rejected by the boy coming to see her. Then she feels excited by listening the word 'Lucky Boy'. In India, Fiat India talked about safety by offering crumble zones, side-impact beams for maximum passenger and driver safety, fire prevention system and anti-lock braking system. 'Safety' lies on functional end but the emotional side of this benefit is to convey the customer that he is purchasing the best car to protect his family during the journey.

Sometimes, the customers are not frequently using the physical benefit but are feeling relaxed on the emotional end. In case of the insurance companies, we are paying premium regularly for the number of years but rarely do we bother about the financial reimbursement due to any mishappening. Truly saying, in the wrap of premium, we actually are paying the price to purchase the relaxed sleep at night which is the height of emotional benefit.

(f) Perceptions

'Marketing is not the battle of products. It is the battle of perceptions' (Ries & Trout). For the marketer, it is necessary to know the consumer perceptions regarding the products that they perceive as the substitutes. This can be known with the technique of perceptual mapping. Perceptual map is basically the two-dimensional space on which the consumer perceptions and preferences regarding your product and competitor's products are plotted. So, this technique helps the marketer to know the consumer perceptions and preferences about his own products in relation to the competitor's products. This technique also defines the similarities and dissimilarities among the products. The closely plotted points on the map convey that the products are similar whereas far situated points convey dissimilarity. The single consumer's preferred position is represented by one point but if the number of points are closely situated, it makes a cluster, which means that several consumers have same preferences. The preference is considered as an "ideal vector". The marketers analyze that whether their products comes in ideal vector category or not. If yes, positioning is strong, but if not, then how much is the difference between perception and preference and how can it be minimized? So the major concern of the strategist is to bring the consumer perception close to the ideal point or bring the ideal position close to the perception. No doubt, the second mode is difficult but the first can be achieved by re-positioning the brands by changing advertisement and modifying products in accordance with consumer preferences.

(g) Brand Personality

Brands are like individuals. Individuals can inherent some similar physical characteristics but still differ in their personalities. Personality is the perception of individual in totality i.e. his physical characteristics, values, beliefs, attitude, lifestyle, potential to perform and emotional associations. Similarly, though brands can be similar in terms of physical attributes or functions performed, yet they differ in terms of personality. According to David Ogilvy, "The personality of a product is an amalgam of many things- its name, its packaging, its price, the style of its advertising and above all the nature of the product itself." No two brands can be similar in personality/character, as no two individuals can be. For example, one brand can be considered as youthful, upper-class, trendy and perfectionist while a similar brand, on the other end, can be considered as middle-aged, mature, sophisticated, and graceful .So while framing a positioning strategy, the crucial aspect taken into consideration is to create the brand character/personality that keeps it distinct from other brands. Personality creation is the

responsibility of advertising agencies, marketers or sometimes the head of an organization. It can be articulated by thinking the brands in terms of human here is in terms of human here is in terms of human here is in terms of human here. thinking the brands in terms of human-beings and then visualizing that if it were a person then how old would it be? How would it be dressed up? It is and then visualizing that if it were a person then how old would it be dressed up? be? How would it be dressed up? In what profession would it be? What would be his likes or dislikes? What attitudes would it have and how. attitudes would it have and how emotionally would it be associated? What would be his likes of distribution is created by the marketers should be consistent with the marketers and how emotionally would it be associated? Whatever personality is created by the marketers should be consistent with the perception of that personality that the consumer carries. The symbolic imprints of a brand impressional with the perception of that personality that the consumer's mind. imprints of a brand impression should be the same in the marketer's as well as in the consumer's mind.

PUZZLES AND ADVANCEMENTS IN BRAND POSITIONING

In theoretical, as well as in practical field, brand positioning is given the utmost importance, but, at the floor of implementation some doubte implementation, some doubts remain in the mind of the marketer when he indulges in the market loaded with the competition which loaded at the mind of the marketer when he indulges in the market loaded with the competition which leads to change. So when everything is changing, the customer perceptions, preferences, and expectations also change. The second preferences and the second preferences and the second preferences are second preferences. expectations also change. Then it becomes difficult for the companies staying with constant positioning. Further, it is very difficult to be a strong one it is very difficult to measure the space owned by a product in the customer's mind. Again, one strong recommendation in literature regarding positioning is to position the product in top category or by creating powerful category, but again, if it is already grabbed by the competitors, then what's the way? Today even when the stability is at stake, all these things become extremely difficult.

But where there is a will, there is a way. This tough competition conceived the idea of brand wikization. Actually, the irony with the organizations is that they still engrave positioning as the corporate exercise and companies keep on doing the experiments by selling the products according to their wish, not in the way the consumers seek to purchase. But now the companies have started to move towards wikization. Wiki is actually the common judgment. Today the companies are not defining brands and markets, the consumers do this through word-ofmouth and personal experiences. Brand Wikization is derived by customers and also emphasizes on building healthy and long-term relationships with customers which in turn, means low cost and higher profits. Being customer driven, brand wikization forces the companies to identify and fulfill the customer requirements and also respond to their dissatisfaction. Unlike the positioning, brand wikization is measurable by identifying what customer's value and delivering according to their benchmarks.

CONCLUSION

The concept of positioning emerged in 1969 when used by Al Ries and Jack Trout in the paper Positioning is a game people play in today's me-too market place in the publication Industrial Marketing. It became the vital process in identifying the space in the mind of consumer and then fitting the image of brand in that space. A strongly positioned brand assumes more survival and competitive advantage for the company. No doubt, it is quite a tough job but can be achieved by indulging in extensive research regarding consumer behaviour, which again made the marketers gripped with the number of positioning strategies. Whatever the strategy is opted by the organization to position the brand must be unique, pertinent, reliable, evident, convincing and communicable. Moreover patience should be there, because positioning is not a one night game. It takes years to position the brand. So, in the competitive world, the only way to survive in the market is to build a strong positioning for the brands. It is substantiated from the number of examples available in literature that nobody could beat those companies, which had sharpened their positioning edges and hence, for decades the strong positioning walked with grace by wearing the crown of "unbeatable weapon" in the market place.

REFERENCES

1. Ries Al and Trout Jack(2003), Positioning: The Battle for Your Mind, New York: Mc Graw-Hill.

2. Sengupta Subroto(1999), Brand Positioning strategies for competitive advantage, Tata McGraw Hill Publishing Company Limited, New Delhi.

3. Cowley Don (1996), "Understanding Brands" Kogan Page Limited, London.

4. Kumar Ramesh S.(2007), Managing Indian Brands- Marketing Concepts and Strategies, Vikas Publishing House Pvt. Ltd., New Delhi.

5. Moorthi Y.L.R.(2006), Brand Management: The Indian Context, Vikas Publishing House Pvt. Ltd., New Delhi.

6. Soundararaj J.J, Rengmani J., "The inevitability of Positioning in the present marketing scenario, Indian Journal of Marketing, XXXII(12) (2002), 3-5.

7. Renganathan R. "Positioning a tourism destination to gain a competitive advantage", Indian Journal of Marketing, XXXIV(9) (2004),6-10.

8. Sekar I.F.G., "Successful Positioning Strategies of Indian Corporates-A Replica and Retrospect in the Last Millenium." Indian Journal of Marketing, XXX (11-12) (2000), 9-12.

9. Reckom Johan Van, Jacobs Garriele, Verlegh P.W.J., "Measuring and managing the essence of brand personality", Market Lett (17) (2006), 181-192.

10. Ganguly P., "An empirical study to determine the perceptual positioning of ten well-known toothpaste brands in the minds of youth." Indian Journal of Marketing, XXXV (10) (2005), 19-25.

11. Bence Brenda, "Getting Back to the Basics: The Fundamentals of Positioning" Thai American Business, July-Aug.2004.10-13.

12. Chakraborty Kishore, Mitra Amit, Laser Petors, "Winning Markets Through Power Brands" Journal of Marketing and Communication, Vol I (2) Sep- Dec.2005. 119-126.

13. Gurowitz Edward M.. "Positioning products and services accurately" The CEO Refresher, (2000), 1-6.

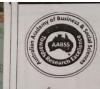
14. Hofer Vera, Ladner Klaus, "Positioning of new brands in an experiment" CEJOR (14) (2006), 435-456.

15. www.brandingasia.com

16. www.brandblogs.com

17. www.indiainfoline.com





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EFFECTIVENESS OF THE ADVERTISING PROCESS

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ABSTRACT

The idea that advertising is something someone does to someone else with an identifiable effect permeates most attempts to explain the process by which advertising works. Accordingly, statements of advertising objectives generally delineate what the advertiser would like to do to the consumer. Indeed, it would seem that even though the marketing concept has won some acceptance, it has resulted neither in a parallel theory of the advertising process nor in the specification of advertising objectives mutually advantageous to advertiser and consumer. The purpose of this paper is twofold:

- To seek a set of criteria for judging advertising effectiveness consistent with the letter and spirit of the marketing concept.
- To develop a research paradigm for analyzing the advertising process consistent with the proposition that advertising is effective to the extent that both the advertiser and the consumer accomplish their intentions or objectives.

The marketing concept has important consequences for advertising research and for judging advertising effectiveness. An attempt is made in this article to show the possibility of several complementary conceptions of the advertising process. Since these complementary conceptions do not logically derive from each other, they do not necessarily result in mutually consistent conclusions. Consequently, a comprehensive model of the advertising process consistent with the marketing concept would appear to be both multidimensional and multivalued.

KEYWORDS: auxiliary concepts, advertising effectiveness, impedes progress, multidimensional, multivalued

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INTRODUCTION

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The past decade has witnessed the development of information and communication technologies that enable easy and rapid interaction between customer and advertiser. As a result, advertisers are increasingly relying on various modes of interactive technology to advertise and promote their products and services. A new genre of advertising and marketing communications agencies has emerged, the interactive agency, even as more traditional advertising agencies have embraced interactive technologies. Expenditures for online advertising, only one form of interactive communication, doubled from 1998 to 1999 and are expected to reach \$ 21 billion by 2004. Although this will still be less than 10% of all advertising expenditures, there is reason to believe that this estimate underestimates the amount of advertising that is in reality interactive.

Although the Internet is widely heralded as a new medium for interactive communications consumers have already begun to provide evidence that they have integrated the Internet experience into their broader media use. Almost half of all personal computers are in the same room as the television set, and simultaneous viewing of television and access to the Internet are common. Such consumer directed integration of television and the Internet is but one example of interactivity involving the integration of media by consumers. Combinations of older media, such as traditional print and broadcast advertising with the telephone (especially, but not exclusively 800 telephone numbers) have long provided a degree of interactivity.

At the most general level, feedback via sales reflects interactivity. Interactivity is, therefore, a characteristic of the consumer, not a characteristic of the medium; consumers can choose to respond or not. Thus, in this sense interactivity is not really new. What is new, are the speed, scope, and scale of interactivity that is provided by

new information and communication technologies. The Internet is a new technology that makes some things simpler, cheaper and easier. It is a new way to communicate with consumers, for consumers to communicate with one another, and a new way to sell products and services to consumers, but it joins other media and distribution channels as vehicles for these tasks. It does have some features, such as hyperlinks, that are different from those found in other media, but other media also have unique characteristics. The increasing technological integration of telephones and television with the Internet also suggests that interactive media, and hence, interactive advertising, are not unique to the Internet.

LITERATURE REVIEW

In literature and practice the evaluation of advertising effectiveness has used two basic models:

- the dichotomous model;
- the three-dimensional model.

The dichotomous model is applied mainly in product and brand advertising, tending to isolate and evaluate separately the following:

- sales effect;
- communication effect.

The sales effect refers to the assessment of the capability of advertising to affect the sales volume and/or the market share, regardless of the possible influence of other variables. For Batra et al. (1995), the effectiveness of advertising should be considered for its effect on sales in the short term. This advertising performance measurement is based on the marginal theory (Chamberlin, 1948). The advertising is therefore regarded as an independent variable that can be combined with other marketing variables to have a certain effect on the dependent variable, i.e. sales. The aim is to seek the best combination of the determinants of the sales increase.

The effect of communication refers to the ability to reach, with appropriate messages, a more significant sharc of public. Such effect is examined in literature with different approaches:

- sociological;
- semiotic;
- psychological;
- socio-psychological.

Sociological analysis focuses on the community, considered as a system governed by rules and social norms, and on the social behavior. The role of advertising and consumption in the society change is a very fertile topic. Sociology has examined how advertising influences opinions, attitudes and behaviors of individuals and social groups.

There are two opposite sociological perspectives to the advertising function in contemporary society. The first maintains a positive approach to advertising. It is believed that the role advertising is to better organize economic and social relations, to harmonize social behaviors, to make people adhere to common values and to help them to better live together without problems. The second approach is, by contrast, rather critic, because advertising tends to generate a mass consumption. In order to adapt messages to a wider audience, introduces new, poorly differentiated, symbolic values.

The semiotic analysis focuses in the first instance, on symbols. These are identified as anything that conveys meaning, e.g., words, gestures, images, and dance. Semiotics studies the problem of encoding, and more generally of the code used. The object of investigation is the message itself containing different signs that can be interpreted according to a pre established intention, without reference to the consumer and the influence on the consumer behavior. This approach is useful especially in the context of advertising creation. Authors assess the effectiveness of advertising in reference either to the language of the message or the graphic image of the message. However, they analyze the quality of message from the viewpoint of its construction, its presentation and the place of the communication process. The impact of the message on the recipient is a minor problem in

the process of the message evaluation. This is an important limitation to the semiotic approach in terms of marketing.

Communication in general and advertising in particular, were treated by psychologists starting from the motivations of recipients, which occupy a central position in the analysis. This is because of their influence on the perception of the recipient. They believe that the motivations drive consumer behavior. So the purpose for the advertising creator, is to identify the reasons of consumer behavior, in order to identify the most effective advertisement message or to remove the communication barriers. With the psychological approach, other types of research and investigation have emerged, thanks to the contribution of neuroscience. The evidence (obtained through scientific experimentation) has become a necessary support to verify the assumptions. The psychological approach has the advantage to measure the effectiveness of advertising with reference to the recipient of the message, particularly to the consumers' characteristics. On the other hand, the approach does not provide exhaustive answers, not delving into the exact causes that lead the recipient of the message publicity to expose themselves voluntarily to the message, decode it, to store and, eventually, to make the purchase. So it is not taken into account the entire communication process, and, in particular, the external factors, especially those related to the environment, that may play a crucial role in determining the behavior of the recipient.

The socio-psychological approach takes simultaneously into account the message and the recipient of the message. This approach aims to study the effectiveness of advertising in terms of persuasiveness, observing the effects on the formation process of attention, memory, attitude and behavior. This research methodology considers the environment of the communication process and its actual interactions. The experimentation is widely used. It also allows to consider all hypotheses tested together, and all the links that may exist between variables, through a pre-test, getting an advantage in terms of validity of the research. Rather than focusing solely and exclusively on direct effects of certain variables taken individually, that is difficult to control in reality, this approach studies the actual contribution of these variables in explaining the evolution of the dependent variable, sales.

The major criticisms to the dichotomous model concern the partial evaluation and the inability to provide reliable breakdowns of the effects achieved by advertising and by other company politics (marketing and communication). For these reasons, sometimes, the three-dimensional models (i.e. AIDA model and model Dagmar) are preferred. These models are used both in planning advertising campaigns and evaluating their effectiveness. They propose a hierarchy of communication effects, cognitive affective and behavioral. Namely the analysis of cognitive dimension concerns the messages understanding and storing and must take account of different types of memory: spontaneous recall, without any added indication; stimulated recall, facilitated by the presentation of certain evidence; related memory, when respondents are able to describe at least one specific element of the communication; recognition, or identification of the advertising; brand allocation, the memory not only of the advertising but also of the advertised brand).

The affective dimension is linked to the attitude toward and perceptions of communication. Affective reactions and emotional acceptance of that type of campaign are investigated. The affective attitude towards the images proposed and the spread opinion of consumers is detected.

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The behavioral dimension describes changes in buying behavior, detectable by intentions and actions measured by sales and market share.

All the models mentioned so far are mainly focused on three elements of the communication process: the recipients (in terms of audience, memory, storage), the media used (in terms of impact, coverage, frequency, etc..) and the feedback (in terms of attitudes, behaviors, opinions, etc...). They totally omit other elements (source, code, context) assuming essentially that the communication process was conducted in optimal conditions or at least without distortion. Moreover a fundamental element for an effective communication process is the use of the same code by the source and recipient. Otherwise, the recipient will not understand the message or give a different meaning and this will lead to the phenomenon Eco called "aberrant decoding". However, since as stated the message is what we understand, not what it was intended to understand, it becomes important to examine not so much and not only what the firms wanted to communicate, but what was actually communicated.

THE ADVERTISING PROCESS

There is, of course, no doubt that advertising in some sense "works" and that it makes a difference. Perhaps it is the very "self-evidence" of the "effects" of advertising which impedes progress toward a more adequate understanding of the process by which advertising works and of the nature of the effects which advertising produces. Most of the published models of the process by which advertising is thought to work are based on simple, mechanical principles. The general belief is that a sender sends a message via some medium to a receiver who, upon intercepting the message, is variously "caused," "triggered," or "stimulated" to react in accordance with the advertiser's intentions. The fact that not all consumers react in quite the same manner has been "explained" in various ways. In attention, selective perception, misinterpretation, forgetting, or just plain fickleness are some of the concepts that have been advanced to account for differences in consumer behaviour. Actually, many modern psychologists and behavioural scientists have rejected the mechanical, or stimulusresponse, model of psychological and communicative processes as conceptually and empirically inadequate. And those who have adhered to this model have had to add numerous auxiliary concepts to justify empirical phenomena not explained by the original, simple model. It can be demonstrated empirically that communication is not something someone does to someone else. Morally and operationally, the individual human is an autonomous entity who communicates from and to the world around him by attributing meaning and importance to selected data of that world. This fact of life may be overlooked, in part because it is concealed behind people's overlapping expectations, and in part because mechanical models of the advertising process have prevented researchers from "seeing" this process in other than cause and effect terms. To demonstrate the inadequacy of cause and effect models of the advertising process, it is useful to first differentiate between the data and the information people derive from these data. Second, it is useful to differentiate between the intentions that advertisers seek to embody in their ads, and the intentions consumers apply to these same ads. Third, it must be recognized that the complex array of needs, emotions, values, and knowledge underlying human choice behaviour is not transferable or communicable as such. People must actively create information and feelings by processing available physical data in the context of their own unique experiences. To put it differently, psychologically passive people cannot be persuaded to purchase particular products. Without active involvement by consumers, advertising can have no "effect" whatsoever. Thus, in view of the fact that information must necessarily be sent or received by humans as physical data, an important question facing the advertising researcher is not what advertising does to people but what people do with advertising. The purposes for which people use advertising will, in turn, be dependent upon at least two sets of conditions:

- 1. People's feelings, beliefs, and knowledge about the usefulness, believability, and function of advertising. Technically, these are the metacommunicative characteristics of advertising. The conditions involved here apply to all advertising and serve to define, facilitate, and constrain the kinds of information people can, will, and feel they should derive from advertising in general.
- People's feelings, beliefs, and knowledge about the usefulness and validity of some specific advertisement. Technically, these are the communicative characteristics of advertising. The conditions involved here serve to define the amount and kinds of information particular consumers can and are willing to derive from particular ads.

The traditional models of the advertising process seldom include this distinction between the metacommunicative and the communicative characteristics of advertising. But more important, these same traditional models also tend to neglect the active and indispensable role played by consumers in bridging the gap between messages and action. The creative efforts of advertisers and advertising agencies loom so large in the general image of the advertising process that researchers often overlook the fact that the consumer must be as creative as the advertiser if he is to perceive the intended information or to feel the intended emotion.

OBJECTIVES OF INTERACTIVE ADVERTISING

In general, the goals of interactive advertising tend to be similar to the traditional objectives of advertising. This means that many of the traditional measures of advertising effectiveness remain relevant, even in a world of interactive media. However, interactive advertising also has some properties that expand the range of potential objectives and that facilitate the acquisition of traditional measures of advertising effectiveness. Interactive advertising also has the potential to lessen the 'process loss' associated with uncoordinated advertising, to reduce the difficulties commonly encountered in clearly communicating an advertising message and to help overcome resistance to new products.

At the same time, interactive advertising also has the potential to increase the efficiency and quality of consumers' decisions, increase customers' involvement and satisfaction, and promote trust through reciprocity in information exchange, technical assistance, and reduction of information asymmetry. Finally, marketers can use feedback from consumers to improve their advertising message and intended target, and strategically adjust their customer support, product line, and services provided. Interactive advertising may also produce greater

efficiency, trustworthiness, and quality in advertising. Thus, interactive advertising has the potential to fundamentally change the nature of advertising in much the same way that electronic communication infrastructure has changed the nature of group interaction.

Interactive media of various types not only opens new opportunities for communication with and among consumers, it also creates opportunities for creating new measures of consumer response to such communications, as well as to product offerings and other marketing initiatives. Interactive media shift control of the information flow from the marketer to the consumer. This provides many more options for responding to information than previous forms of marketing communication, and it is the response of consumers to these options that provides the basis for new measures of consumer response. For example, providing consumers with the opportunity to search for more information about a product, as is done at many Internet sites, provides an opportunity to monitor the types of information and products that consumers seek at both an individual and aggregate level.

To illustrate the power of interactivity, consider the following scenario: a manufacturer of a product offers a description of a product concept. Information about this concept can be obtained by consumers in an interactive environment through an interactive search of various branching trees of information offering more and more detailed information about the product concept. Note that the intensity of search for information (measured by click through rate) can become a surrogate for interest in the product. Indeed, because such search involves deliberate and active decisions by the consumer, it is likely that measures of the breadth and depth of information search will be far better predictors of product interest and eventual purchase behavior than measures currently in use.

It is very likely that measures of intensity of information search bears a strong relationship to product interest and, in turn, to product purchase. Further, interactive media provide the opportunity for direct customer feedback regarding product modifications, likes and dislikes, and improvements. Evaluation of product concepts is but one potential opportunity for using the power of interactive media. By tracking the types of information users of interactive media seek it should be possible to determine the information that consumers find most useful when evaluating a product. Indeed, examination of the information search patterns of users of interactive media may inform positioning decisions. Information provided by the consumer to the marketer can provide a means for customized offers and customized advertising. Indeed, fully interactive advertising would provide the consumer with the opportunity to request information, not simply respond to what is provided by the advertiser.

While the potential of interactive media is clear, much remains to be done to realize that potential. For example, numerous measures of intensity of search for information (click-through rates) might be constructed which vary in their capacity to capture the depth and breadth of search. There is also the important issue of establishing a link between such measures and more traditional measures of purchase interest and intent. In addition, new issues arise in the context of interactive advertising that do not arise, at least to the same extent, in the context of traditional advertising.

For example, there is the question of whether and when consumers wish to be engaged by an interactive medium. There is also the question of how much information consumers are prepared to provide advertisers or even how much information consumers are prepared to allow marketers to capture about the interaction. Finally, there are issues of satiation of response that arise in the context of measures based on interactive media that do not arise with more traditional measures. Consumers have only limited time and resources, and therefore, are unlikely to be able to sustain large numbers of on-going interactive relationships.

NEW THEORETICAL FRAMEWORK FOR ADVERTISING EFFECTIVENESS

Most scholars generally concede that the effects of advanced technologies are less a function of the technologies themselves, and more a function of how these technologies are adapted by people. Thus, the effects and effectiveness of interactive advertising may differ from anticipated outcomes as consumers and marketers respond and adapt to changes in their own environments. This suggests that research on interactive advertising should focus on the dynamic processes by which consumers and marketers incorporate advanced technologies into their reciprocal communications. DeSanctis and Poole (1994) have proposed adaptive structuration theory, an extension of structuration theory, to explain the interplay between the structures of technology, relevant actors, and changes in technology and behavior that arise from such interplay.

For example, Poole and DeSanctis (1989) used structurational concepts to examine how groups appropriated the interaction rules of their decision support systems, thereby structuring their group communications and reinforcing or modifying their systems' influence over time. Such an adaptive model may also be an appropriate conceptual framework for examining the effects and effectiveness of interactive advertising. Ongoing interaction between consumers and marketers may be conceived of as a special case of structuration.

Structuration involves the production, reproduction, and transformation of social institutions, which are enacted through the interaction between individuals and institutions.

Application of structuration theory to interactive advertising would involve the identification of the ways in which consumers shape the production, reproduction, and transformation of the advertising message, future products and services and relationships with marketers and other consumers. This interaction can, in turn, shape the actions taken by advertisers. Structurational concepts can be used to examine how marketers and consumers appropriate interaction rules to influence the effectiveness of advertising and other jointly beneficial outcomes. Following structurational terminology interactive advertising may be regarded as a social institution that is produced, reproduced, and modified when consumers engage in interactive communication. As a social institution, advertising both shapes and is shaped by consumer preferences.

MEASURING ADVERTISING EFFECTIVENESS

One important reason for the reliance on mechanical models of the advertising process appears to arise from the need and predilection of advertisers to measure the effects of advertising. Indeed, the argument for some measure of the relationship between advertising effort and purchasing behaviour has such an extremely strong intuitive appeal that its attainment often seems worth the cost of a few simplifying assumptions. It should be noted that sales is not the only criterion used in measuring the effects of advertising. Some researchers have sought to establish communications or non-purchase measures of advertising effects. Changes in consumers' product awareness, attitudes, preferences, and loyalties are examples of such communications effects of advertising. The differences between sales and communications measures of advertising effects have been elaborately discussed by several researchers. The differences are largely a question of technical accuracy, in as much as the reasoning underlying applications of sales and communications criteria are quite similar. The issue of concern here is conceptual adequacy rather than technical accuracy. For example, sales and communications measures of advertising effectiveness both take into account only selected residuals of the advertising process, but neither measures the effectiveness of the process itself. Quite contrary to the spirit of the marketing concept, advertising effectiveness is still measured only in terms of the advertiser's costs and benefits. That is, existing means of measuring advertising effectiveness serve the purposes of the advertiser interested in "selling what he makes." These same means, however, do not and cannot possibly serve the purposes of the advertiser interested in "delivering a standard of living. In view of the role necessarily played by consumers in the advertising process, there is no way, on the basis of the traditional theories of the advertising process, to decide just who or what it is that is effective. Is it the consumer who is an effective receiver, or is it the ad or the medium which delivers an effective message, or is it the copywriter who is an effective sender? Traditional models do not attempt to answer these questions. And, from a policy point of view, intelligent answers to these questions seem both necessary and crucial.

In sum, advertising is here viewed as effective only to the extent that it is mutually advantageous to advertisers and consumers. Indeed, effectiveness does not seem a meaningful concept apart from some understanding of the purposes or objectives of both consumers and advertisers. Or, to put it differently, a measure of the effectiveness of the advertising process should include some assessment of the costs and benefits from the point of view of both consumers and advertisers.

Levels of Analysis and Description The particular statements made concerning communication systems and the particular standards adopted for the purpose of assessing advertising, media, and messages will depend upon the assumptions and the conceptual constructs underlying the analysis. Five different ways of analyzing and describing the advertising process (and, with appropriate modifications, any communication process) are suggested here

- 1. One can think about communication systems in terms of physical data dissemination and in terms of dissemination techniques and media. The reduction of advertising phenomena to physical messages and movements of messages allows the application of many well developed and time tested physical science models and measurement techniques. Also, it enables the use of terminology familiar from everyday encounters with the physical world. The mechanistic model of consumer behavior necessarily involved is based on the assumption that words, pictures and media comprise the essence of communication.
- 2. One can think about communication systems in cognitive or psychological terms. Given this approach one becomes involved in such concepts and terms as perception, conception, information processing, thinking and the like. This approach quite clearly goes beyond the realm of physical phenomena and measurement is extremely difficult. The basic assumption here is that communication is a uniquely individual and human phenomenon.
- 3. One can think about communication systems in functional terms. Here one leaves the world of psychological phenomena as such and enters a world of utility, usefulness, operation- al requirements, instrumental purposes, and economic values. In other words, the concern here is with the functions

(informative, persuasive, confirmative) that advertising performs in the consumer's communication system. The basic assumption is that human communication is purposeful and intentional in nature.

- 4. One can think about communication systems in structural terms. That is to say, one can think in terms that enable one to view advertising (either a total campaign or a single ad) as one element of either a producer's or a consumer's communication system. One possible research topic here would pertain to the relative prominence of advertising as a source of information for consumers. The basic assumption here is that an individual's communication system has significant enduring or stable characteristics or that an individual's data acquisition indeed is "systematic" to a significant degree.
- 5. Finally, one can think about communication systems from a moral or ethical point of view. The current interest in truth in advertising, for example, appears to be part of an attempt to develop a philosophy of advertising. Unfortunately, the controversy surrounding advertising as a means of facilitating the performance of a free market economy is fraught with pseudo issues and emotional out bursts which bear little resemblance to a well considered philosophy. Intelligent discussion of these issues is not, of course, facilitated by the fact that advertising researchers themselves are using inadequate models of the advertising process.

These five ways of thinking about communication and, more specifically, about advertising, comprise logically complementary approaches to researching and to creatively intervening in the communication systems of consumers. The key features of this paradigm are:

- 1. Each of the five different elements of an individual's communication system can be studied from five different and complementary points of view.
- 2. Since each of the five approaches to the analysis and description of the advertising process implies a conceptualization of that process different from that of the others, five different yet complementary criteria for the assessment of advertising effectiveness logically emerge.

The conceptual categorizations emerging from the paradigm outlined invite a far more detailed description of the advertising process than space permits here. With these conceptual categories potentially ranging from the physical characteristics of awareness (biological and neurological enablers and constraints) to the moral characteristics of commitment (moral attitudes toward advertising constituting an integral part of the individual's identity), some have clearly greater intuitive appeal than others.

But even in a more general sense there are many interesting consequences of the fact that several logically complementary ways of thinking exist regarding advertising and communication systems. Thus, advertising can be effective in psychological terms, and quite ineffective in functional terms and vice versa. That is, an ad (or campaign) can evoke communication which leads to behavior not associated with purchasing (or even to behavior oriented toward avoiding purchase) of the advertised product. This is not a very surprising conclusion. But note also that advertising can be useful even if consumers do not derive the information intended by the advertiser. To put it differently, advertising can be useless even if it is "truthful" and "false" even if it is useful.

But what does all this do to the idea of advertising "effectiveness"? It is, of course, possible to avoid this issue merely by maintaining that effective advertising is advertising that sells. But since sales are after the fact events, a resolution of the issue raised above still seems necessary. At the present time it seems possible to do little more than repeat the criteria outlined above and suggest some of the implications for the creation and measurement of advertising effectiveness. In light of a consumer centered concept of the advertising process, the most effective advertising campaign would seem to be that which:

- 1. Provides the most efficient means of physically disseminating and receiving the data required;
- 2. Provides the best possible means for the advertiser to say what he wants to say, and for the consumer to "receive" what he can, will, and should receive (psychological characteristics);
- 3. Provides the functionally most suitable and relevant guidance for exchange and consumption behavior;
- 4. Provides the best structural match or fit with other elements in both the advertiser's and the consumer's communication systems;
- 5. Is strategically, ethically, and legally as sound as possible.

Taken together, these five statements comprise a broad definition of the term "advertising effectiveness." Each statement implies a criterion which frequently conflicts with the criteria implied by one or more of the other statements. Resolution of these conflicts could be an important task for future research of the advertising process. Though criteria such as these increase immensely the complexity of the measurement issue, they also open up some possibilities for innovations which perhaps have not hitherto been obvious.

INTERACTIVE ADVERTISING DOES NOT WORK ALONE

Advertising is only a part of a total marketing effort. A product that is poorly positioned, overpriced, inadequately distributed, badly packaged, or inferior to competition may suffer sales declines even though the advertising itself is well-conceived and professionally executed. The specific contribution of advertising to sales has always been difficult to ascertain. Interactive advertising may well make the determination of precisely what marketing actions produced a particular outcome even more difficult to do. The influence of any particular advertising message may be less important than the cumulative reciprocal communication between advertiser and consumer. Recently, several scholars have argued that the increasing availability of information, and the sophistication of the technology for obtaining, processing and analyzing this information, are blurring the boundaries of the several elements of the marketing mix.

There have also been calls for changes in the organization of both the marketing function and the firm itself to accommodate this blurring of traditional functional lines within marketing and between marketing and other functional disciplines within and external to the firm This blurring of boundaries has been partially recognized by calls for "integrated communications," but the blurring extends beyond communication activities. Distribution and communication are becoming inextricably linked, and decisions about the one are increasingly difficult to make in isolation from the other. Indeed, it may be difficult to differentiate some marketing activities as clearly serving an advertising or distribution function. Similarly, where interactive advertising is used to better design products, it will be impossible to separate the effects of communication from product design.

Models of consumer response that focus only on the effects of advertising, or that attempt to separate advertising effects from other effects of the marketing mix are likely to be less than helpful or even misleading. Rather than measure the effectiveness of interactive advertising, it may be more useful to measure the effects of integrated marketing programs. Similarly, other consumers and other sources of information may play a role as great or greater than interactive advertising. Discovering consumers' use of these sources and how they integrate such information into decision making will be a challenging research question.

SOME IMPLICATIONS

Let it be emphasized that the exchanges of products and services are being accepted as the ultimate end and raison d'etre of advertising. But the data one would use in assessing the effectiveness with which this key function of advertising is accomplished depend in large measure upon how one thinks about (conceptualizes) the advertising process. And, though sales are the key aim of advertising, it would seem that, by thinking of advertising as the cause of sales, millions of dollars have been wasted either on attempting to "make" people do what they intended to do anyway or on attempting to "make" people do what they had no intentions of doing whatever the incentive. Equally important is the fact that advertising appears to be used by consumers for purposes which have little or nothing to do with the purchase of goods and services.' Though little is known in a scientific sense about the manner in which people use advertising, it would seem that the mere presence of countless advertising messages necessarily modifies either favorably or unfavorably the individual consumer's environment in quite a significant way. If the advertising process were thought of not as something someone does to someone else but as a phenomenon of human communication designed, managed, and operated for the mutual advantage of buyers and sellers, perhaps more efforts would be devoted to:

- 1. Upgrading and protecting the legitimacy and therefore the usefulness of advertising as an information source.
- 2. Designing advertising programs as if they were information systems aimed at enabling the consumer to rely on them as sources of necessary, useful, and inspiring information when and where such information serves his purposes.
- 3. Measuring the effectiveness of advertising as one would measure the effectiveness of an information system. That is to say, seeking to measure effectiveness not only by the number of decisions made by all consumers, but also by the contributions of advertising to the soundness of these decisions.
- 4. Creating or modifying media and data displays (ads) to improve qualitatively and quantitatively upon communicative possibilities (in contrast with present attempts to improve upon communicative probabilities) at the consumer advertisement interface. That is, to aim for a richer communication experience rather than a more determinate one.

These are just a few implications of thinking about advertising from the point of view of the mutual interests of consumers and advertisers. The main point is that if advertisers chose to think of themselves and their customers as members of the same organization as individuals with a common goal then the "problem" of advertising effectiveness would look different. Just as the test of an in company information system involves some

conception of the needs and requirements of the user, so the test of advertising should involve some measure of how well it enables both the advertiser and the consumer to get where they both want to go.

CONCLUSION

It must be emphasized that the thoughts outlined in this article hold no promise of solving or even simplifying the existing problems of advertising and advertising research. Rather, the aim is to point out that most of these existing problems are born of the way advertisers have chosen to think about advertising. To change one's mode of thinking about advertising will not eliminate problems of advertising and advertising research. But it may change them. Advertisers and advertising have been severely criticized in recent years. But whether or not the criticisms are reasonable, advertisers have thought about advertising in a way which renders them incapable of taking into account, let alone seriously dispute, the critics' allegations. On the one hand, the critic assumes that advertising is effective and concerns himself with the nature of these effects. On the other hand, the advertiser has yet to decide whether advertising is effective and, if so, how and in what way it is effective. Furthermore, those who create advertising need qualitative data. They need data which will aid them in deciding what to say in their advertisements. But the traditional way of thinking about advertising effectiveness calls primarily for quantitative data. Even if it is known that a particular campaign was effective, decision makers and creative people are often left to rely on their hunches concerning why it was effective. These are some of the reasons for advocating a different way of thinking about the advertising process and a different direction in advertising research. Whether the consequences of this particular way of thinking are to be preferred over those emerging from traditional models has yet to be established. But then, one does not legislate ways of thinking, one proposes them.

REFERENCES

- 1. Arun Chaudhuri, Indian Advertising: 1780 to 1950 A.D., 2006, West Patel Nagar, New Delhi
- 2. S N Murthy, Advertising, 2007, New Delhi.
- 3. C.L. Tyagi, Arun Kumar, Advertising Management, 2004, New Delhi.
- Bent Stidsen, 1970, 'Some Thoughts on the Advertising Process', Journal of Marketing, Vol. 34, No. 1 (Jan., 1970), pp. 47-53.
- 5. John Wilmshurst, Adrian Mackay, Fundamentals of Advertising, 2010, New York.
- 6. Arch G. Woodside, Measuring the Advertising Effectiveness, 1996, USA.

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# "GROWTH AND VARIOUS CHALLENGES OF RETAIL INDUSTRYIN INDIA" Capt. Dr. Ashok V. Giri MES Garware College of Commerce,Pune

The Indian Retail Industry is the fifth largest in the world. Comprising of organized and unorganized sectors, Indian retail industry is one of the fastest growing industries in India, especially over the last few years. Though initially the retail industry in India was mostly unorganized, however with the change of taste and preferences of consumers, the Industry is getting more popular these days and getting organized as well. The Indian Retail Industry is expected to grow from US\$330 billion in 2007 to US\$640 billion by 2015. According to the 10th Annual Global Retail Development Index (GRDI) of A.T. Kearney, India is having a very strong growth fundamental base that's why it's the perfect time to enter into Indian Retail Market. Indian Retail Market accounts for 22% of country's GDP and it contributes to 8% of the total employment. The total retail spending is estimated to double in the next five years. The Government' sinitiativetoallow51percentforeigndirectinvestment(FDI)inmultirand retail has been a subject for debate for quite sometime now. Indian retail sector has there fore attracted the attention of people from various fields including academia, industry, research organisations. The present study is under taken to gain an insight about the present structure of Indian Retail Sector, the major sub-sectors in organized and traditional retail and changes in the relative share of various sub-sectors over last few years and penetrationof organizedretailinvarioussegments. The analysis also covers the opport unities and emerging policychangesbyGovernment challengesbeforeIndianretailsectorinview ofrecent domesticconsumption, high population and large'young' ofIndia.WithIndia's themacrotrendsforthesectorlook favorable. The Indian retails ectorishighly fragmented with more unorganizedretailerslikethe percentofitsbusinessbeingrunbythe ninety than share traditionalfamilyrunstoresandcornerstores.During2005-07and2007-10,the oforganizedretailincreased by 13.9 percentand 21.9 percentrespectively. Howeverthereafter organized retailis penetrating themarketatamorerapidpace. During the period2010-12share of organized retailrose by 60 percent and is expected to increase by2.6times during2012-15. Clothing/Apparel segment is the biggest contributor in organized retailing in India in both the years of study. Of this, organized retail -currently growing at a CAGR of 22%- is estimated to be 21% of total expenditure. The unorganized retail sector is expected to grow at about 10% per annum with sales expected to rise from \$309 billion in 2006-07 to \$496

billion in 2011-12. This paper focused on changing face of Retail Industry, organized or unorganized retail industry, major players in retail industry and also highlights the challenges faced by the industry in near future. **KEYWORDS:** *Retail, Industry, Major Players, Infrastructure, Global Retailing,* 

# Unorganized Retailing, GDP.

## INTRODUCTION

Retailingcanbedefined

as a distribution channel function, where an organization, buying the products from supplying firms or manufacturing the products themselves, sells these directly to consumers. Many atimes, consumers buy from

anorganization who is not the manufacture rofthe products, rather it is a reseller of the products obtained from

others. However, insome cases we may find the product manufacture rsoperating their

ownretailoutletsin acorporate channel arrangement. Retailing is beneficial to both consumers and sellers. On the one hand itenables the consumers to purchase small quantities of an assortment of products at a reasonably affordable price, on the other it offers an opportunity to suppliers to reach their target market. Through retail उपप्र

 ${\it promotions the y can build product demand and provide consumer feedback to the product market error of the product of the$ [1]. Thus retail consists of sale of goods and services from individuals or businesses to the end-user. Aretailer earns profit by purchasing large quantities of good sandserviceseitherfrommanufacturersdirectly or through a wholesale and he is a **Objective:** Objective: This kind of thinking in the society is also compelling 'kiryana stores' to change their format

and be a bit organized at their level. Keeping in view this fact the paper focuses on the To understand the evolution of retail sector in India To study the popular retail formats

To study the emerging retail trends in India 3.

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To study the growth trends of Indian retail sector 5

To study the factors having impact on growth of organized retail sector To study the future prospects of organized retail sector in India. Research Methodology:

Research internononogy: Information has been sourced from various books, trade journals, government publications, newspapers etc. and research is descriptive in nature. Data presented in the form of tables and Evolution of Indian retail: Evolution of Indian retail: Retailing is one of the biggest sectors and it is witnessing revolution in India. The new

entrant in retailing in India signifies the beginning of retail revolution. India's retail market is avasated to grow transmodulely in part faw wars. Assorting to AT Vacuum. The Windows entrant in retailing in India signifies the beginning of retail revolution. India's retail market is expected to grow tremendously in next few years. According to AT Kearney, The Windows of Opportunity shows that Retailing in India was at opening stage in 1995 and now it is in peaking stage in 2006. The origins of retailing in India can be traced back to the emergence of Kirana stores and mom-and-pop stores. These stores used to cater to the local people. Eventually the government supported the rural retail and many indigenous franchise stores came up with the help of Khadi& Village Industries Commission. The economy began to open up in the 1980s resulting in the change of retailing. The first few companies to come came up with the help of Khadi& Village Industries Commission. The economy began to open up in the 1980s resulting in the change of retailing. The first few companies to come up with retail chains were in textile sector, for example, Bombay Dyeing, S Kumar's, the passage of time new entrants moved on from manufacturing to pure retailing. Retail outlets such as Food world in FMCG, Planet M and Music world in Music, Crossword giving a world-class experience to the customers. Eventually hypermarkets and supermarkets emerged. The evolution of the sector includes the continuous improvement in the supply

strains a worker case operation to the costonicity. Eventuarly hypermatices and supermarkets are supermarkets the continuous improvement in the supply that and the supply the supermarkets the supermarkets and the supermarkets are supermarkets. emerged. The evolution of the sector includes the continuous improvement in the supply chain management, distribution channels, technology, back-end operations, etc. this would finally lead to more of consolidation, mergers and acquisitions and huge investments. India's retail market is expected to grow tremendously in next few years. India shows US\$330 billion retail market that is expected to grow 10% a year, with modern retailing just beginning. In India, the most of the retail sector is unorganized. The main challenge facing the organized sector is the connection from unorganized sector. Unorganized treating has beginning. In India, the most of the retail sector is unorganized. The main challenge facing the organized sector is the competition from unorganized sector. Unorganized retailing has been there in India for centuries. The main advantage in unorganized retailing is consumer familiarity that runs from generation to generation. It is a low cost structure; they are mostly operated by owners, have very low real estate and labor costs and have low taxes to pay. Organized retail business in India is very small but has tremendous scope.

Hyper marts/supermarkets: large self-servicing outlets offering products from

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Mom-and-pop stores: they are family owned business catering to small vion-and-pop stores: they are family owned business catering to sections; they are individually handled retail outlets and have a personal touch. Departmental stores: are general retail merchandisers offering quality products and Convenience stores: are located in residential areas with slightly higher prices goods

Shopping malls: the biggest form of retail in India, malls offers customers a mix of

Snopping mains: the orggest form of retail in india, mails offers customers a mix of all types of products and services including entertainment and food under a single E-trailers: are retailers providing online buying and selling of products and services. Discount stores: these are factory outlets that give discount on the MRP.

Vending: it is a relatively new entry, in the retail sector. Here beverages, snacks and other small items can be bought via vending machine. Category killers: small specialty stores that offer a variety of categories. They are •

Category killers: small specialty stores that offer a variety of categories. They are known as category killers as they focus on specific categories, such as electronics and sporting goods. This is also known as Multi Brand Outlets or MBO's. Sneetably stores: are retail chains dealing in specific categories and provide sporting goods. Ints is also known as Multi Brand Outlets or MBU'S. Specialty stores: are retail chains dealing in specific categories and provide deep assortment. Mumbai's Crossword Book Store and RPG's Music World are a couple of example

is in the Retail industry Emergence of organized retail: Real estate development in the country, for example, the construction of mega malls and shopping malls, is augmenting the growth of the organized retail business Snewline conseits of whith of India India has a large much security in which is

Trends in the Retail industry

- growin of the organized retail business Spending capacity of youth of India: India has a large youth population, which is a conducive environment to growth of this sector. Raising incomes and nurchasing neaver. The per capita income in India has doubled
- conducive environment to growth of this sector. **Raising incomes and purchasing power:** The per capita income in India has doubled between 2000-01 and 2009-10 resulting in improved purchasing power. **Chapter mind set of enformers:** The customer mind set is readually shifting from between 2000-01 and 2009-10 resulting in improved purchasing power. Changing mindset of customers: The customer mind set is gradually shifting from low price to better convenience, high value and a better shopping experience Resent to mercredit: Emergence from contest chase mick and case loans FMIs loan thro uw price to better convenience, niga value and a better snopping experience Easyeustomercredit:Emergenceofconceptssuchasquickandeasyloans,EMIs,loanthro ereredit:Emergenceofconceptssuchasquickandeasyloans,EMIs,loanthr erediteards,hasmadepurchasingpossibleforIndianconsumers,forproduc

suchasconsumer durables Higherbrandconsciousness: Thereishighbrandconsciousnessamongtheyouth;60%off ndia's populationisbelowtheage of30leadingtopopularizationof brands andproducts GROWTH OF RETAIL INDUSTRY IN INDIA An increasing number of people in India are turning to the services sector for employment due to the relative low compensation offered by the traditional agriculture growth of unorganized retail sector is pegged at 6 percent. The Retail Business in India is unrendly at the point of inflection. Rapid change with investments to the tune of US \$ 25 billion is being planned by several Indian and multinational companies in the next 5 years. It as huge industry in terms of size and according to management consulting firm Techno is a huge rabustry in terms of size and according to management consulting firm Techno is a huge rabustry in terms of the total retail market (US \$ 65-75 billion) in the next 5 years. 

years. According to the tenth report of GRDI of AT Kearney, India is having a very favorable retail environment and it is placed at 4th spot in the GRDI. The main reasons behind that is the 9% real GDP growth in 2010, forecasted yearly growth of 8.7% through 2016, high saving and

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increasing disposable income and rapid emergence of organized retail infrastructure as major factors behind the forecast growth. single brand retail trading stood at US\$ 44.45 million during April 2000 to September 2011. India retail sector is wearing new clothes and with a three year compounded annual growth at eof46.64%, retail is the fastest growing sector in the Indian eccomy. The sector 2011, second largest employer after agriculture, employing more than 35 million people with growth of retail industry has created a huge demand for real estate. Property developers and that have the 2010", published by Knight Frank, during 2010-12 around 55 million arganized for existing 41 million square ford by 2012, the organized retail and. Chennai, Hyderabad for existing 41 million square ford 05 million again for the total of shopping more that setted to without show to 05 million square free total shopping more have of growth in the retail sector will emerge from the trail and of shopping more that setted to witness high growth. Industry experts will be grown plase of growth in the retail sector will emerge from the rural market. By 2012, the rural through organised retail market is projected to be worth about US\$ 410 billion, with 54 per cand to fast whophy organised retail, meaning that the opportunity in India remains immense. Net through organised retail actor with graw fast to 83 billion for a set of side fast, during 2013, with 10 per canc conjug through organised retail, meaning that the opportunity in India remains immense. Net through organised retail, meaning that the opportunity in India remains immenses. Retail shopping environments and stronger brands, according to the report "fapping mail from organised retail, meaning that the opportunity in India remains immenses. Retail shopping environments and stronger brands, according to the report "fapping incursive the retail sector with the set of the strong and strong and from organised retail and stronger brands, according to the report "fapping incursive th

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Indian retail, out it remains under penetrated by organized retail. Organized retail has it 51/6 share in clothing and apparel and continues to see growth in this sector. A report by Boston Consulting Group has returned that the country's premined ratal is estimated at 116 \$ 28 share in cuoning and apparet and continues to see grown in this sector. A report by Dustuu Consulting Group has revealed that the country's organized retail is estimated at US \$28hillion with around 7% penetration. It is projected to become a HS \$260 hillion husiness. Consulting Group has revealed that the country's organized retail is estimated at  $OS \ge 20$ billion with around 7% penetration. It is projected to become a US \$ 260 billion business over the next decade with around 21% penetration. The analysts believe that the sector is

billion with around 1% penetration. It is projected to become a US \$ 200 Olliton ouslices over the nest decade with around 21% penetration. The analysts believe that the sector is likely to show significant growth of over 0% over the next ten years and also see rand

over the nest decade with around 21% penetration. The analysis believe that the sector is likely to show significant growth of over 9% over the next ten years and also see rapid development in organized retail format with proportion likely to reach more respectable.

Incerv to snow significant growth of over 9% over the next ten years and also see fapu development in organized retail format with proportion likely to reach more respectable 25% by 2018. The BMI India Renort for the first on after of 2012 released forecasts that total

development in organized retail format with proportion likely to reach more respectable 25% by 2018. The BMI India Report for the first quarter of 2012 released forecasts that total retail sales with growth from US \$ 422.09 billion in 2011 to US \$ 825.46 billion by 2015 The report highlighte strongly underlying economic growth population expansion.

retail sales with growth from US \$ 422.09 billion in 2011 to US \$ 623.40 billion us 2015. The report highlights strongly underlying economic growth, population expansion, increasing disposable income and ranid enveronce of organized retail infrastructure as maior. 2013. The report highlights strongly underlying economic growth, population expansion, increasing disposable income and rapid emergence of organized retail infrastructure as major According to denarment of Industry Policy and Promotion Completive EDI inflorms in

- illenges Faced by the Retail Industry: International Standards: Even though India has well over 5 million retail outlets of different sizes and styles, it still has a long way to go before it can truly have a retail industry at par with International Standards. This is where Indian companies and International brands have a huge role to play. Unorganized sector and there is still a lack of efficient supply chain management. Indian Inefficient supply chain management: Indian retailing is still dominated by the unorganized sector and there is still a lack of efficient supply chain management. India must concentrate on improving the supply chain management, which in turn would bring down inventory cost, which can then be passed on to the consumer in the form of
- tow pricing. Lack of Retail space: Most of the retail outlets in India have outlets that are less than 500 square feet in area. This is very small by International Standards.

Cultural Diversity: India's huge size and socio economic and cultural diversity means there is no established model or consumption pattern throughout the country

Cultural Diversity: India's nuge size and socio economic and cultural diversity means there is no established model or consumption pattern throughout the country. Menufactures and establisher will have to device strategies for different eactors and Manufacturers and retailers will have to devise strategies for different sectors and Segments which by itself would be chaininging. Real estate issues: The enormous growth of the retail industry has created a huge demand for real estate. Property developers are creating retail real estate at an

aggressive pace. With over 1,000 hypermarkets and 3,000 supermarkets projected to come up by 2011, India will and additional retail energy of 700,000,000 ener (65,000,000 m2) as compared to index 1,000 hypermarkets and 3,000 supermarkets projected to come up by 2011, India will need additional retail space of 700,000,000 sqft (65,000,000 m2) as compared to today. need additional retail space of 100,000,000 sqit (03,000,000 mz) as compared to today. Human resource problems: Trained manpower shortage is a challenge facing the organized retail sector in India. The Indian retailers have difficultly in finding trained

- Human resource problems: Trained manpower shortage is a challenge facing the organized retail sector in India. The Indian retailers have difficultly in finding trained organized retail sector in India. The Indian retailers have difficultly in finding trained person and also have to pay more in order to retain them. This again brings down the Indian retailers profit levels undian retailers prout levels. FraudsinRetail:lisone oftheprimarychallengesthecompanieswouldhavetoface.Frauds, wenderfrauds thefte chentifting
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- ancusmounon channelsintheconntryresultsininefficientprocesses. Thisisamajorhindranceforretailersas channelsinthecountryresultsininefficientprocesses. This is an a for hindrance for retailers as a on-efficient distribution channel is very difficult to handle and carresult in huge losses. Infrastructure does not have a strong base in India. Urbanization and globalization are compelling companies to develop infrastructure facilities. Transportation, including railway systems, has to be more efficient. Highways have to meet globalistand ards. A irport capacities and power supply have to been hanced. Warehouse facilities and timely distribution are other areas of challenge. To fully utilize India's potential in retails ector, these major and powersupplyhaveto beenhanced. warenouseiacininesana unretyuisuu arcother areas ofchallenge.TofullyutilizeIndia'spotential inretailsector,these

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Future Prospects of Organized Retail Sector in India: India has been ranked as the third most attractive nation for retail investment among 30 emerging markets by the US-based global management consulting firm. AT Kearney's study on Global Retailing Trends Found that India is the least commetitive as well as least saturated Future Prospects of Organized Retail Sector in India: emerging markets by the UN-based global management consulting firm. A1 Kearney's shidy on Global Retailing Trends Found that India is the least competitive as well as least saturated of all major Global markets. This implies that there are similaretty low context to the saturated on thosai ketalling fremes round that muta is the least competitive as well as least saturated of all major Global markets. This implies that there are significantly low entry barriers for of all major Global markets. This implies that there are significantly low entry barriers for players trying to setup base in India, in terms of competitive landscape. The report further stated that Global Retailer such as Wal-Mart, Carrefour, Tesco and Casino would take dvanlage of more favorable FDI rules that are likely to be introduced in India. A good talent and unlimited concertuinties have markets and availability of quality raw material at advantage of more favorable FDI rules that are likely to be introduced in India. A good talent pool, unlimited opportunities, huge markets and availability of quality raw material at cheapercost is expected to make India overtake the world best retail economies by 2042. The modern retail in the country to \$175-200 billion, according to Technopark estimates. International retailers see India as the last retailing frontier left as the Chinas retail sector is becoming as saturated.

Conclusion Manyagencieshaveestimateddifferentlyaboutthesizeof organizedretail marketin 2011. The becoming as saturated.

Manyagencieshaveeshmatedoillereniiyabourinesizeor organizedretail marketin 2011 onethinghatiscommonamongstiheseestimatesisthatIndianorganizedretailmarketwillbe onethinghatiscommonamongsttheseestimatesisthatIndianorganizedretailmarketwillbe very bigin2011.Thestatusoftheretailindustrywilldependmostlyonexternalfactorslike Governmentregulations andpoliciesandreal estateprices, besides the activities of retailers and demandsofthecustomers alsoshowimpact onretailindustry.Astheretailmarketplacechanges shapeandcompetitionincreases, thepotentialforimproving retailproductivity andcutting costsis

likelytodecrease. Thereforeitis important for retailers to secure a distinctive position in the market place based on values relationships or experience.

Finally, it is important to note that these strategies are not strictly independent of each other; value is function of not just price quality and service but can also be enhanced by personalization and offering a memorable experience.

# References

- 1. "Retail reality." 7 November 2007.
- 2. "ICRIER Begins Survey of Indian Retail Sector." 19 March 2007.
- 3. "Retailing in India Unshackling the chain stores". The Economist. 29 May 2008. "India again tops global retail index." 22 /6/ 2007.
- 4. "Economic and financial indicators" 3 July 2008.
- 5. "Indian Retail story from Myths to Mall." 11 August 2007.
- 6. "India Retail Forum 2008"
- 7. "Business standard dec26,2010."
- 8. Hindustan Times dec26,2010"
- 9. www.Business Maps of India.com
- 10. www.ibff.org.com
- 11. www.articlebase.com/ retail industry in India, june04, 2007.
- 12. Kothari.C.R, Research Methodology, New Age (P) Limited, Second Edition, 2004.
- 13. Pillai&Bagavathi, Marketing management, New Delhi, sultan Chand & Sons, 1999.
- 14. David Gilbert, Retail Marketing Management, Prentice Hall, Second Edition, 2003.
- 15. AmatualBaseer (2007), "Emerging Trends in India", Indian Journal of Marketing, Vol. XXXVII, No.11. Hariharan.G. (2008), "Profile and perception of retail consumers", Indian Journal of Marketing, Vol.XXXVIII, No.2.
- 16. LaxmiPrabha.G. (2007), "The prospects and problems of Indian Retailing", Indian Journal of Marketing, Vol. XXXVII, No.10.
- 17. 2013 from www.asa.in/asa-knowledge-bank-surveys-reports.asp

'ज्ञान, विज्ञान आणि सुसंस्कार यांसाठी शिक्षण प्रसार'

शिक्षणमहर्षी डॉ. बापूजी साळुंखे

Shri Swami Vivekanand Shikshan Sanstha, Kolhapur Samajbhushan Ganpatrao Kalbhor College, Loni kalbhor, Pune - 412 201 (NAAC Reaccredited ' B ' Grade )

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"IMPACT OF COMMERCE EDUCATION IN RURAL DEVELOPMENT IN INDIA"

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# RURAL DEVELOPMENT CHALLENGESAND PROSPECTSIN INDIA

### **Prof. Ghule Padmakar Tukaram** Bharatiya Jain sanghatana's

Arts Science & Commerce College, Wagholi, Pune Email- padmakar.02ghule@gmail.com Mob.No. 9763252156 Prof. Landge Balwant Bhimrao Head, dept. of commerce, BJS,Arts Science & Commerce College, Wagholi, Pune Email- bbandege@gmail.com Mob. No.9423348264

#### Introduction:-

India is a country of villages and its development is synonymous with the development of the people living in rural areas. India is a vast and second most populous country of the world. (According to the 1991 census, 74.28 per cent population of our country reside in the countryside).But a big part of this population has been leading an uncertain economic life due to non-synchronization of employment opportunities in agriculture sector because of the fast growing population.Rural development has been receiving increasing attention of the governments across the world. In the Indian context rural development assumes special significance for two important reasons. First about two thirds of the population still lives in villages and there cannot be any progress so long as rural areas remain backward. Second, the backwardness of the rural sector would be a major impediment to the overall progress of the economy. India is predominately an agricultural country and farming is their main occupation.In terms of methods of production, social organization and political mobilization, rural sector is extremely backward and weak. Moreover, technical developments in field of agriculture have increased the gap between the rich and poor, as the better off farmers adopted modern farm technology to a greater extent than the smaller ones. The all India Rural Credit Review Committee in its report warned "If the fruits of development continue to be denied to the large sections of rural community, while prosperity accrues to some, the tensions social and economic may not only upset the process of orderly and peaceful change in the rural economy but even frustrate the national affords to set up agricultural production."It was therefore felt necessary to make arrangements for the distribution of fruits of development to the rural weak and backward section of society.It is rightly pointed out that a purely agricultural country remains backward even in respect of agriculture. Most of the labor force in India depends on agriculture, not because it is remunerative but because there are no alternative employment opportunities. This is a major cause for the backwardness of Indian agriculture. A part of the labour force now engaged in agriculture needs to be shifted to non-agricultural occupations.

#### What is Rural Development?

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There is no universally accepted definition of rural development. The term is used in different ways in vastly divergent contexts. As a concept, it connotes overall development of rural areas with a view to improve the quality of life rural people. As a phenomenon, it is the result of various physical, technological, economic, socio-cultural and institutional factors.

As a discipline, it is multi-disciplinary in nature representing an intersection of agricultural, social, behavioural and management of sciences. In short, rural development is a process that aims at improving the standard of living of the people living in the rural areas.

Rural development may be defined as overall development of rural areas to improve the quality of life of rural people. It is an integrated process, which includes social, economical, political and spiritual development of the poorer sections of the society.

Rural development can be defined as, helping rural people set the priorities in their own communities through effective and democratic bodies, by providing the local capacity; investment in basic infrastructure and social services, justice, equity and security, dealing with the injustices of the past and ensuring safety and security of the rural population, especially that of women.

The term is used to mean 'organizing things' so as to change existing conditions in favour of a better state. There may be many variants of development drawing their nomenclature from the sphere of activity where the change is managed or the type of change or the 'method' how the desired change is attained. For several decades the term was used, solely, for economic change, inclusive of the conditions which affect betterment. The concept was later extended to its wider meaning to embrace 'changes' of political, social, cultural, technological, economic and also the psychological frame of society. In its current meaning 'development' is used to express animated change for reaping utmost human potential. Technically, development is the name of a 'Policy' and its 'Consequent programmes', designed to bring about a desired change' in social, economic, political, or technological spheres of life. It is concerned with the promotion of human capacities : Physical or mental, to attain the cherished socialgoals. Development is potential-related, and it can be attained to the extent of the existing development potential, which is measured by the 5un-exploited resources, talents, margin of sophistication and the 'will power' which implements development policy. Development is the conditioning of progress, and when efforts are laid towards the use of Growth potentials in rural economy and Society, it is rural development.

#### **Objectives:-**

- To Study of agricultural development problem and Prospects.
- To Study of Employment Grouthproblems and Prospects .
- To Study of Rural development along with its drawbacks and to suggest recommendations.

#### **Research Methodology:-**

The proposed study mainly is descriptive in nature. It solemnlybased in secondary date and information which is collected from the concerned sources as per need of the reseach. The relevant books, documents of narious department and organizations, articles, papers and web sites areb used in study.

### Education and Trade;

Some countries have successfully combined openness and investment in learning and education, forming a virtuous circle: openness creates demand for education, and learning and education make a country's export sector more competitive. Knowledge accumulation influences a country's trade performance and competitiveness (Grossman and Helpman 1989); trade, in turn, enhances knowledge accumulation, especially through imports (Ben David and Loewy, 1995). Lucas notes that to sustain any kind of knowledge accumulation, a country has to be outward-oriented and a significant exporter. Young and Keller find that trade itself cannot be the engine of growth, but rather must operate throughout some mechanism, such as the formation of human capital, to affect growth. A World Bank study found that economic growth rates in a sample of 60 developing countries during 1965-87 were especially high where there was a combination of a high level of education and macroeconomic stability and openness (Tilak, 1989). The impact of trade openness on longterm growth thus depends on how well people are able to absorb and use the information and technology made available through trade and foreign investment. It is widely accepted that in order to adapt to an environment of stronger competition, and to a world emphasizing the role of information, knowledge and skills, advanced economies need continuously to upgrade the overall quality of their labour force.

#### **Education and Productivity:**

Clearly the educational provisions within any given country representone of the main determinants of the composition and growthof that country's output and exports and constitute an important ingredient in a system's capacity to borrow foreign technology effectively. For example: health and nutrition, and primary and secondary education all raise the productivity of workers, rural and urban; secondary education, including vocational, facilitates the acquisition of skills and managerial capacity; tertiary education supports the development of basic science, the appropriate selection of technology imports and the domestic adaptationand development of technologies; secondary and tertiary education alsorepresent critical elements in the development of key institutions, of government, the law, and the financial system, among others, all essential for economic growth. Empirical evidence at both micro and macro levels further illuminates these relationships. At a micro level, numerous studies indicate that increases in earnings are associated with additional years of education, with the rate of return varying with high level of education(Behrman 1990, Psacharopoulos 1994). The returns to primary schooling tend to be greater than returns to secondary and tertiary education (Psacharopoulos, 1994: 1325-45). In agriculture, evidence suggests positive effects of education on productivity among farmers using modern technologies, but less impact, as might be expected, among those using traditional methods. In Thailand, farmers with four or more years of schooling were three times more likely to adopt fertilizer and other modern inputs than less educated farmers (Birdsall, 1993: 75-79). Similarly, in Nepal, the completion of at least seven years of schooling increased productivity in wheat by over a quarter, and in rice by 13% (Jamison and Moock, 1994:13). Education is also an important contributor to technological capability and technical change in industry. Statistical analysis of the clothing and engineering industries in Sri Lanka, to cite just one example, showed that the skill and education levels of workers and entrepreneurs were positively related to the rate of technical change of the firm (Deraniyagala, 1995)

### Integrated Rural Development Programme (IRDP):

The programme was launched by the Centre in March 1976 as a major instrument of the government to alleviate poverty. Its main feature was to enable selected families to cross the poverty line in a given time-frame by taking up self-employment in various activities like agriculture, horticulture, animal husbandry, weaving and handicrafts and services and business activities.

The target group consisted of small and marginal farmers, agricultural labourers and rural artisans having annual income below Rs 11,000 defined as poverty line in the Eighth Plan. Among the selected families, it is stipulated that at least 50 per cent of assisted families should be from SCs and STs. Furthermore, 40 per cent of the coverage should be of women beneficiaries. In spite of its many important features, the programme has also been criticized widely.

# The main criticisms against the programme are:

- There was much corruption, misuse and malpractice in the implementation of the programme at every level—from selection of beneficiary families to the distribution of loans. Bribing was a sine qua non for obtaining a loan.
- The poor people were not well conversant about the programme. They took less interest in the programme because they were afraid of being cheated. Moreover, they were unable to fill up complicated forms and find the 'guarantors' for themselves.
- The bank officials, through which loans were to be given, were often reluctant towards these poor borrowers.
- 4. It was found that this scheme also could not make any significant impact in the generation of employment in rural areas.

 Several studies indicated that IRDP loans neither raised the living standard of the beneficiaries, nor does it had any impact in the alleviation of rural poverty for which this scheme was launched.

# 3. Training Rural Youths for Self-Employment (TRYSEM):

This scheme was launched in 1979 to provide technical skills (training) to rural youths (between 18-35 years) living below the poverty line, to enable them to seek employment in fields of agriculture, industry, services and business activities.

As in other schemes of poverty alleviation, in this scheme also, youths belonging to SCs and STs and ex-servicemen, who had passed ninth class, were given priority. One-third seats were reserved for women. The beneficiaries of this scheme after completion of training were absorbed in the IRDP scheme.

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According to an estimate, up to 1995-96, about two lakh youths were being trained every year, of whom about 45 per cent became self-employed and 30 per cent got regular

In spite of being a good scheme, it has many shortcomings. For example,

- (1) its coverage is very small in relation to need;
- (2) the amount of stipend given to the trainees (about Rs 75 to 200 per month) to motivate the youth is very meagre to join training programme; and
- (3) skills imparted in the training are of very low level and not linked with rural industrialization process.

# 4. Food for Work Programme (FWP):

This programme was introduced in 1977 by the then Janata government with the objective to provide employment to the unemployed/underemployed village persons during the slack season. The wages paid to the workers were in kind, i.e., food grains.

The works undertaken were flood protection, maintenance of existing roads, construction of new link roads, improvement of irrigation facilities, construction of school buildings, medical and health centres and PanchayatGhars (community halls) etc.

# 5. National Rural Employment Programme (NREP):

This is redesigned programme of FWP, planned for creating additional employment opportunities in the rural areas with the help of surplus food grains. It was started in 1980 as a part of the Sixth Plan (1980-85). This programme was especially for those rural people who largely depended on wage employment but had no source of income during lean agricultural period. PRIs were actively involved in this programme.

Later on, this programme was merged with JawaharRozgarYojana (JRY).

# 6. Rural Landless Employment Guarantee Programme (RLEGP):

Special schemes were formulated by some states such as Maharashtra and Gujarat to provide increasing employment opportunities to rural people, especially landless people. Maharashtra started the Employment Guarantee Scheme (EGS) for the unemployed in rural areas. The Gujarat government's scheme provided for unskilled jobs to the unemployed workers on different projects. This scheme was later on merged into JRY along with NREP.

### 7. JawaharRozgarYojana (JRY):

This programme came into existence in April 1989 with the merger of the NREP and the RLEGP. Under this scheme, it was expected to provide at least one member of each poor family (BPL family) an employment for 50 to 100 days in a year at a work near his/her residence. About 30 per cent of the jobs under this programme were reserved for women. The scheme was implemented through Village Panchayats.

# 8. AntyodayaYojana:

The Hindi word 'antyodaya' is a combination of two words-ant meaning end or bottom level and udaya meaning development. Thus, as a whole, it implies the development or welfare of a person standing at the end of the queue (lowest level), that is, the poorest of the poor.

This programme was initiated by the Government of Rajasthan on 2nd October, 1977 for special assistance to persons living below the poverty line (BPL). It was later on picked up by the then Janata government at the centre in 1978. The idea was to select five of the poorest families from each village every year and help them in their economic betterment.

For the selection of beneficiary families, a few economic criteria were laid down, in order of priority:

- (1) families under severe destitution without any productive assets with no member in the age group of 15-59 years capable of any economic activity;
- (2) families without any productive assets of land or cattle but having one or more persons capable of working and with a per capita income up to Rs 20 per month;
- (3) families having some productive assets with per capita income uptoRs 30 per month; and
- (4) families having per capita income uptoRs 40 per month.

Under this scheme, assistance was given in the form of allotting land for cultivation. monthly pension (Rs 30-40 per month), bank loan for purchasing bullocks, buffaloes, cows, goats and pigs, basket making, carpentry tools, opening a tailor's shop, a tea shop, a barber's shop or a grocer's shop and manufacturing activities like niwar-making, soap-making, etc.

Following the footsteps of the Government of Rajasthan, UP and Himachal governments also launched it on the same lines in 1980. The scheme has seen much ups and downs with many shortcomings, such as delay in the payment of loans, apathy on the part of government officials, etc. 'Antyodaya,' as preached by Mahatma Gandhi, has disappeared into 'ananta' or eternity and is replaced with 'swantyodaya', meaning one's own development. It places emphasis on 'myself mentality.

# 9. Mahatma Gandhi National Rural Employment Guarantee Scheme (MNREGS):

After independence, for the development of rural society, particularly to develop the socio-economic life of the rural poor, many schemes and programmes were launched from time to time but unfortunately the fruits of these programmes reached to a very low proportion of these people.

It was estimated about 70 per cent of rural population was still deprived of the basic necessities of life. For the purpose of extending the benefits to rural people, a new scheme was launched and legislation was enacted under the name 'National Rural Employment Guarantee Act' (NREGA).

This scheme was initially started in 200 districts of the country from February 2006 and from April 2008, it has been extended to cover all the districts of the country. The main 0

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objective of the scheme is to provide 100 days employment to rural unemployed people. In this scheme, employment to women is also provided.

# Some Other Development Schemes:

1. PradhanMantriAdarsh Gram SadakYojana (PMAGSY):

It focuses on integrated development of 100 villages with a 50 per cent population of SCs.

# 2. Bharat Nirman Yojana:

It was launched in 2005 for building infrastructure and basic amenities in rural areas. It comprises of six components-rural housing, irrigation, drinking water, rural roads, electrification and rural telephony.

# 3. Indira Awas Yojana:

It is one of the six components of Bharat NirmanYojana. It was introduced in 1985-86. It aims to help built or upgrade the households of people living under BPL.

### 4. Jawaharlal Nehru National Urban Renewal Mission (JNNURM):

It was launched on 3rd December, 2005. The main objective of this scheme was fast track development of cities across the country. It was focused especially on developing efficient urban infrastructure service delivery mechanism, community participation and accountability of urban local bodies and other agencies towards citizen.

#### 5. Rajiv Awas Yojana (RAY):

This programme was announced in June 2009 with an objective to make the country slum-free.

#### 6. National Rural Health Mission:

It was launched to make basic health care facilities accessible to the rural people.

7. National Rural Livelihood Mission:

It is meant to eradicate poverty by 2014-15.

## 8. National Food Security Scheme:

On the pattern of MNREGS, the central government is trying hard to bring a bill in the monsoon session (2013) to provide guarantee for food to the poor people, although it has already issued an ordinance in this regard.

#### CHALLENGES:

The following are the some of the challenges of the Indian agriculture:

- Agriculture sector in India is facing lots of Challenges. 50% of the population engaged in agriculture are still illiterate and just 5% have completed Higher Secondary education. The Education & Incomes of agricultural labourers very low. During 1982 families operating farms below 1 hectare was 56% which has become 70% in 2003.
- Lack of proper planning for utilization of funds available under the foreign aid is also a major issue. As per the CAG report during the Financial Year 2009-10 the total amount of unutilized fund was Rs 9,557 Crore for "Agriculture & Rural Development"

- The real challenge for the India Agriculture is the information asymmetry between farmer and farmer, village and village, region and region and the country as a whole versus other countries in which e-Agriculture is the feasible solution.
- The 100,000 Common Services Centers (CSCs) has a big role to plan in e-Agriculture as well as in bridging the digital divide in India. But the non-availability of the contents in local languages is a big handicap considering the huge percentage of illiterate population involved in Agriculture sector.
- Connectivity especially high speed Internet connectivity in rural areas is also another big challenge for e-Agriculture. Although the KCC is providing the first level instant solution for Agriculture related issues but it not sufficient for the growing demand of e-Agriculture likePrecession Agriculture.

## References:-

- Prime Minister (PMSBY), PradhanMantriJeevanJyotiBimaYojana (PMJJBY) AND TheAtal Pension Yojana (APY) on 9th May 2015 at Kolkata
- 2. Frequently ASked Questions on MGNREGA Operational Guidelines 2013
- 3. National Urban Livelihood Mission
- Approval of Indira Gandhi MatritvaSahyogYojana (IGMSY)- a Conditional Maternity Benefit (CMB) Scheme*



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# MIRACULOUS PROPERTIES OF LOHABHASMA PROVEN BY MODERN TECHNIQUES

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## Abstract:

Ayurveda system of medicine includes an important class of drugs of mineral origin under which there is as subclass known as ayurvedic bhasmas. These are derived from metals like gold, silver, copper, iron, lead, supreme medicines due to their extraordinary medicinal properties. However, according to the modern science, heavy metals referred above are difficult to absorb at cellular levels and therefore are toxic and harmful to human bodies. As against this according to anurved, all these elements, after ayurvedic processes of bhasmikarana not only lose their toxicity but miraculous medicinal properties are induced when they are transformed into what is called as bhasma state. In an attempt to elucidate the exact nature of this bhasma state, we found that a genuine ayuvidic bhasma possesses two characteristics (i) extremelytiny particle size, tending to nano level of the order of 20-90 nm and (ii) attachment of an organic components to these nanosized bhasma particles. These findings are expected to be useful to throw light on the medicinal potential of ayurvedic bhasma.

# INTRODUCTION

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Ayurved firstly introduced the concept of "Bhasma" in its medicinal system. Originally, ayurvedic system of medicine was mostly restricted to medicinal plants (vanaushadhi) and to, some extent to animal products such as cowurine, cowdung, cowmilk, honey etc. Later on metal-based bhasmas were introduced and subsequently they constituted the most important class of drugs of mineral origin. The art and sciene of ayurvedic bhasmas in general and metal-based bhasmas in particular is the subject of "ayurved rasashastra, which is an extremely important and interesting branch of ayurved. The origin, history, developments in ayurved rasashastra is itself an attractive and promising area for research especially for chemists. Research in this subject will be also relevant and encouraging in coming years because ayurved and ayurvedic medicines will receive more and more appreciation and importance all over the world. Metal-based ayurvidic drugs being the superior drugs3 as compared to all other classes of drugs, there is an excellent opportunity to rejuvenate this original art with the help of modern scientific developments. The present work is an attempt from this point of view.

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# SYNTHESIS AND CHARACTERIZATION OF METALLICBHASMAS 4-6 Synthesis of Metallic Bhasmas.

Preparation of bhasma is an elaborate process involving shodhana, marana and bhasmikarana. The classical texts of Ayurveda prescribe in detail these processes. Metals are first purified through a process called shodhana, during which the metal is repeatedly heated and then cooled in herbal extracts. This is fillowed by bhasmikarana where, the shodhit metal is repeatedly triturated with herbs (bhavana) and calcinated in closed earthen crucibles in a pit, by buring cowdung cakes (a Process called puta), to obtain bhasma. The size of pit, the number of cowdung cakes to be used to obtain a specific temperature and duration of heating are specified in detail in standard ayurvedic texts. This process is repeated as many times as prescribed in classical texts for each preparation. Thus we have dasha puta (10 cycles), shata puta (100 cycles), Sahastra puta (1000 cycles) etc. to ensure that the bhasma is properly prepared. To confirm the formation of a genuine bhasma a set of tests are also specified (Ayurvedic Formulary of India, 2003).

Though bhasma preparations are widely used in ayurved, practically noting is known as to what happens to the metal when it is subjected to bhavana with herbs and subsequent calcinations processes. The traditional texts also don't throw any light on the changes undergone by a metal during the obove processes.

# Flow Sheet of the Synthesis of Ayurvedic Bhasma.

The synthesis of an ayurvedic bhasma generally involves THREE major steps given below and illustrated in following flow sheet

- a. Ayurvedic purification of the metal (shuddhi).
- b. Destruction of metallic state (marana).
- c. Conversion of crude product into bhasma state (bhasmikarana).

# Synthesis of Loha bhasma as a representative example

There are numerous methods reported in literature for the synthesis of loha bhasma which is an ancient and famous iron based ayurvedic preparation. Out of these following three methods are selected for the present work.

# Method Using Plant (Kanchnar) Material

In this method the general purification was first done by the standard method. For special purification trifala extract was prepared in cowurine and the above processed iron powder was heated to red heat and then dipped in this extract successively seven times. The process of marana was done in the juice of kanchnar (bauhinia variegate). For this purpose the purified iron powder was mixed with this plant juice in a mortar and the mixture was triturated till a homogenous paste is formed. This paste was transformed to closed crucible system and then subjected to gaja-puta.

The process of bhasmikarana was also done in the same way as that for marana but here the trituration for plant juice followed by gaja-puta was repeated seven times.

# Method Using cow-urine

In this method the first operation was identical with that described for general purification.

For special purification, the above processed iron powder (500g) was heated and dipped in freshly collected cow-urine. This operation of heating and dipping the hot iron powder in cow urine was repeated seven times.

After special purification, the iron powder was taken in a mortar and mixed with cowurine and the mixture was triturated for six hours keeping it in viscous state. This mixture was kept overnight for interaction to complete the destruction of metallic state (marana).

Finally for bhasmikarana, the above iron powder is mixed with cow-urine in a mortar and triturated till a homogenous paste is obtained. The paste is transferred to closed crucible system and subjected to gaja-puta. Total seven gaja-puta are given

# Method By using mercuric sulfide HgS andlemon juice

This method involves the use of mercuric sulfide (hingul) for the process of marana. The mericuric sulfide used in the form of hingul is purified prior to use (using the juice of kadu Nimb).

The iron powder was purified by the same process described in above method and then the purified iron powder is mixed with equal quantilty of Hgs and triturated in a mortar, till a homogeneous mixture is obtained. This was then transferred to a closed crucible system and subjected to gaja-puta. This process was repeated three times to complete the process of marana.

Finally for bhasmikarana, the above iron powder is mixed with lemon juice in a mortar and triturated till a homogenous paste is obtained. The paste is transferred to closed crucible system and subjected to gaja-puta. Total six gaja-puta are given

# Characterization and particle sixe Determination9-10 Chemical Composition by E-DAX

The quantitative determination of the elemental constituents of the three loha bhasma samples to establish their chemical composition was done through EDAX model IncMahwah NJ USA. The E-DAX patterns are shown in figure 1.1 and the result of analysis is shown in table 1.1

of analysis is shown in table 1.1	Composition by E-DAX	
Table 1.1 Chemical	Composition Cr. K S	
C O Fe	Al Si Ci A	-

Method	С	0	Fe	AI 0.40	1.02		0.15	0.58	1.91	
Method I	30.40	28.07	35.60	0.40	0.77	3.43	1.17	0.26	—	
Method II	36.93	28.30	29.14			2.15	0.69	0.77	5.95	
 Method III	32.73	23.30	39.06	— ,	1.30	2. Ke				
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# Phase analysis by XRD and partile size determination

The investigations were done to examine the crystalline modifications of iron oxides. The XRD patterns were recorded on Phillips X-pert Pro Powder diffratometer in the diffraction range (10.90)2. Debye Scherrer equation was used to enleulate mean crystallite size.

The XRD patterns with relevant details are shown in Fig. 2.2 while the results of phase analysis and particle size determination are shown in Table 2.2

Sr. No.	Method	Major Constituent	Solid State Nature Crystallite Size		
1.	Method I	Hamatite	Microcrystalline	39.7 nm	
2.	Method II	Fe2O3	Mostly Amorhous	23.5 nm	
3.	Method III	Fe2O3	Partly Microcrystalline	90.1 nm	

Table 2.2 components identified through XRD

# Infrared Spectra of Joha bhasma 11-33

The solid state infrared spectra were studied in KBr pallets in the region 4000-400 cm-1 these spectra were recorded on a FTIR Perken- Elemer spectrophotomether.

# Evidence for organic component ¹⁴

The significant percentage of carbon identified by E-DAX and the nature of the IR spectra of loha bhasma (as well as for metallic bhasmas obtained from other metals) give some indications in favour of the presence of organic components associated with loha bhasma particles. However, since EDAX is unable to detect the presence of hydrogen and solid state IR spectra show poor resolution, some confirmatory evidence to support the presence of such organic component is necessary. For this purpose samples of loha bhasma (method II) were refluxed on pure toluene for 12 hour for three successive times and the soluble part was isolated. The IR spectra as well as electronic spectra (200-700 nm) in spectroscopic chloroform are then recorded. (fig. 5.1 and fig. 5.2) Tjese spectra gave confirmatory evidence for the presence of organic components. The exact nature of this component is under investigation at present

# Conclusions :-

According to the ayurvedic principals, metals as well as non-metals alone, cannot exhibit extraordinary medicinal properties in their inorganic from. Therefore, pure metal oxides; sulfides; silicates; carbonates or phosphates are not known to possess significant medicinal properties and also they are not assimiable to human bodies. But when they are transformed info their bhasma state miraculous medicinal properties are claimed to be induced in them. Two major factors seem to be esponsible for induction of tremendous medicinal potential in the bhasma state.

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These may be (a) extremely tiny size tending to nanolevel (10-90 nm) of the bhasma particles and (b) organic component imparted to these tiny bhasma particles.

In the present work, encouraging experimental evidence is obtained in favour of both these factors. Similar results and evidence is obtained in metallic bhasmas derived from copper, gold, tin and zinc. These result and evidences are expected to be useful to throw some light on the nature of ayurvedic bhasmas and their claimed extraordinary medicinal properties.

## **REFERENCES**:

- 1. S.B. Kulkarni –Dudhgaonkar Rasarattnasumuccya Shivaji University, Kolhapur publication (1970)
- 2. Pandit Kashinath Shastri, RAstarangini (Hindi) Motilal Banarasidas Dehli (2004)
- 3. Mrudula Wadekar, Yogesh Bendale, B.A. Kulkarni, C.V. Rode and Asmita Prabhune. Supremacy of Metal-Based Ayurvedic Bhasmas and Their Globalization. 2nd World Ayurved Congress, University of Pune, (2006)
- 4. M.P. Wadekar, C.V. Rode, Y.N. Bendale , K.R. Patil and A.A. Prabhune preparation and characterization of copper-based Indian Traditional Drugs Tamra Bhasma journal of pharmaceutical and Biomedical Analysis 39, 951 (2005)
- 5. M.P. Wadekar, C.V. Rode, Y.N. Bendale, K.R. patil, A.B. Gaikwad, A.A. Prabhune Effect of calcinations cycles on the preparation of tin oxide based traditional drugs. Studies of its formation and characterization J. of pharmaceutical and biomedical Science, 41 1473-1478 (2006)
- 6. Bhawat M, Kashalkar R.V. Bhave A.S., Vidya S.S. and ramaswami Preparation and structural characterization of jasad Bhasma Indian Drugs, 41(1) January 12-18 (2004)
- Chemical and Biochemical studies of some Iron based 7. Rupali M. Lad Ayurvedic Drugs ph.d Thesis, Bharati Vidyapeeth Deemed University pune (2009).
- 8. S. Pandit, t.K. Biawad, D.K. Debnath, A.V. Shaha, V. Choudhary Chemical and pharmacological evolution of different ayurvedic preparation of Iron. J. Ethanaopharmacol 65, 149-56 (1999)
- 9. S.S. Kadam, R.W. Jawale, V.V. Dhapte, M.P. Wadekar, S.T. Takale and B.A. Kulkarni characterization of Nanometric Ayurvedic Bhasmas as Regenerative Drugs. International conference of Nanomedicine, Tanjaver, India. 2007
- 10. T.K. Bowmick, A.K. Suresh, S.G. Kane, A.C. Joshi and J.R. Bellare. Physicochemical characterization of an Indian Traditional Medicine Jased Bhasma, Detection of nano particles containing non-zinc oxide J. Nanopart. Res 11,655-664 (2009)
- 11. Shivaji T. Takale Comparative Study of Metal Based Ayurvedic Bhasmas and corresponding metal oxides Ph.D. Thesis, Bharati Vidyapeeth Deemed University pune (2010)

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# MAKING "MAKE IN INDIA": ROLE OF FDI

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#### Abstract

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Make in India was launched by Prime Minister, Narendra Modi on 25 September 2014, to encourage companies to manufacture their products in India. He has launched this ambitious campaign with an aim to turn the country into a global manufacturing hub. This study focuses on the changes in FDI rate after introduction of Make in India by Modi and growth due to increase in the FDI rate. In August 2014, the Cabinet of India allowed 49% foreign direct investment (FDI) in the defense sector and 100% in railways infrastructure. FDI inflows before and after the "MAKE IN INDIA" campaign were compared using the quantitative data which has been collected from various reports like Reserve Bank of India Database on Indian Economy, database of department of Industrial Policy and Promotion. It has been analyzed that there is high correlation between Industrial Production and FDI inflows. The effect of FDI on economic development ranges from productivity increased to enable greater technology transfer

Keywords: FDI, Industrial production, Infrastructure, Make in India.

#### Introduction:

India's economic reforms way back in 1991 has generated strong interest in foreign investors and turning India into one of the favourite destinations for global FDI flows. According to A.T. Kearney, India ranks second in the World in terms of attractiveness for FDI. A.T. Kearney's 2007 Global Services Locations Index ranks India as the most preferred destination in terms of financial attractiveness, people and skills availability and business environment. Foreign direct investment (FDI) is a controlling ownership in a business enterprise in one country by an entity based in another country. FDI is defined as the net inflows of investment (inflow minus outflow) to acquire a lasting management interest in an enterprise operating in an economy other than that of the investor. FDI usually involves participation in management, joint-venture, transfer of technology and expertise. A foreign direct investment (FDI) is a controlling ownership in a business enterprise in one country by an entity based in another country. Types: Horizontal FDI arises when a firm duplicates its home country-based activities at the same value chain stage in a host country through FDI. Platform FDI Foreign direct investment from a source country into a destination country for the purpose of exporting to a third country. Vertical FDI takes place when a firm through FDI moves upstream or downstream in different value chains i.e., when firms perform value- adding activities stage by stage in a vertical fashion in a host country. FDI Stimulate the economic

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development of the country in which the investment is made, creating both benefits for local industry and conducive environment for the investors. It creates job and increase employment in the target country.

# Literature Review

Dunning (2004) [1, 10] in his study "Institutional Reform, FDI and European Transition Economics" studied the significance of institutional infrastructure and development as a determinant of FDI inflows into the European Transition Economies. The study examines the critical role of the institutional environment (comprising both institutions and the strategies and policies of organizations relating to these institutions) in reducing the transaction costs of both domestic and cross border business activity. By setting up an analytical framework the study identifies the determinants of FDI, and how these had changed over recent years. Sunday et al. (2004) [8, 11], in their work "Explaining FDI Inflows to India, China and the Caribbean: An Extended Neighborhood Approach" find out that FDI flows are generally believed to be influenced by economic indicators like market size, export intensity, institutions, etc., irrespective of the source and destination countries. Klaus (2003) in his paper "Foreign Direct investment in Emerging Economies" focuses on the impact of FDI on host economies and on policy and managerial implications arising from this (potential) impact. The study finds out that as emerging economies integrate into the global economies international trade and investment will continue to accelerate. MNEs will continue to act as pivotal interface between domestic and international markets and their relative importance may even increase further. Boon (2001) [13] in his study, "Foreign Direct Investment and Economic Growth" investigates the casual relationship between FDI and economic growth.

## **Objectives of study**

- To find out the effect of FDI on economic development after launch of "Make in India" campaign.
- 2. To study about the role of FDI inflows and its contribution in increasing output.

# **Research Methodology:**

The study is based on secondary data. The required data has been collected from various sources i.e. research papers, various Bulletins Of Reserve Bank Of India, Publications from Ministry Of Commerce, Govt. Of India that are available on internet.

# Manufacturing led transformation approaches

To achieve a manufacturing led transformation, India would need to undertake a structured and planned approach across three levels:

1. Revive manufacturing: The right infrastructure not only ensures an effective supply chain and key inputs feeding into the manufacturing process but also creates a seamless link across production hubs and end markets both domestic

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and global. Domains emerge from these areas requiring significant change to revive domestic manufacturing:

- ✓ Financial environment
- ✓ Land acquisition

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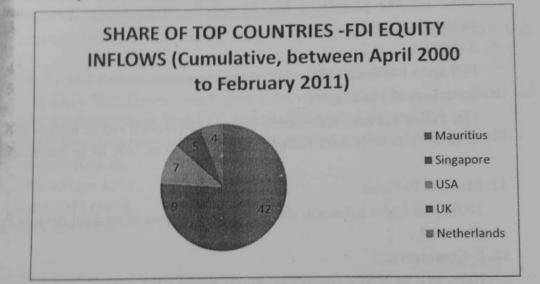
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- ✓ Administrative environment
- ✓ Legal & regulatory environment
- 2. Gain global competitive advantage: building an export ecosystem and developing an infrastructure which support export growth and attracting more investments
- 3. Claim global leadership:- sustaining and expanding competitiveness, changing mindset

SHARE OF TOP COUNTRIES -FDI EQUITY INFLOWS (Cumulative, between April 2000 to February 2011)



#### **Major FDI Reforms**

FDI stimulates country's economic development and creates more conducive environment for the industry to grow

1. Defence:

Up to 49% under automatic route and above 49% through Government route

2. Civil Aviation:

100% FDI under automatic route in Greenfield Projects and 74% FDI in Brownfield Projects under automatic route beyond 74% for Brownfield Projects is under government route.

3. Broadcasting:

New sectoral caps and entry routes are as under:

Broadcasting Carriage Services & down-linking of news channels: 100% FDI Cable Networks: 100% FDI and in News channels: 49% FDI

4. Banking:

FDI up to 74% with 49% under automatic route rest through government route

### 5. Railways:

100% FDI under automatic route permitted in construction, operation and maintenance of Rail Infrastructure projects

## 6. Construction:

100% FDI through automatic route and Removal of minimum floor area & minimum capital requirement

## 7. Pharmaceuticals:

The extant FDI policy on pharmaceutical sector provides for 100% FDI under automatic route in Greenfield pharma and FDI up to 74% under automatic route and 100% under government approval in Brownfield pharma.

### 8. Plantation:

Certain plantation activities namely; coffee, rubber, cardamom, palm oil tree and olive oil tree plantations has opened for 100% foreign investment under automatic route.

# 9. Telecom:

FDI up to 100% with 49% under automatic route

### 10. Insurance & Pension:

FDI Policy has been reviewed to increase the sectoral cap of foreign investment from 26% to 49% with foreign investment up to 26% to be under automatic route.

## **11. Medical Devices:**

100% FDI under automatic route for manufacturing of medical devices has been permitted.

## 12. E-Commerce:

100% FDI in B2B e-commerce, Single brand retail trading entity permitted for B2C e-commerce and e-commerce food retailing

## 13. Retail:

100% FDI and 49% under automatic route is allowed. In case of 'state-of-art' and 'cutting-edge technology' sourcing norms can be relaxed subject to Government approval. 100% FDI is now permitted under automatic route in Duty Free Shops located and operated in the Customs bonded areas.

### FDI in INDIA SECTOR WISE

- Liberalization of the policy in Single- Brand Retail Trading.
- Present Position: Foreign Direct Investment (FDI), in retail trade, is prohibited except in single brand product retail trading, in which FDI, up to 51% is permitted.

Revised Position: The Government of India has reviewed the extant policy on FDI and decided that FDI, upto 100%, under the government approval route, would be permitted in Single-Brand Product Retail Trading.

# CONCLUSION:

FDI plays an important role in the long-termdevelopment of a country not only as a source of capital butalso for enhancing competitiveness of the domestic economythrough transfer of technology, strengthening infrastructure, raising productivity and generating new employmentopportunities. It has been analyzed that there is highcorrelation between Industrial Production and FDI inflows. The effect of FDI on economic development ranges fromproductivity increased to enable greater technology transfer

### REFERENCES

- 1. Government of India. FDI Statistics. Ministry of Commerce & Industry, Department of Industrial Policy and Promotion 2013.
- Himachalapathy, R. A Comparative analysis of FDI in India and China. Journal of Contemporary Research in Management 2010;
- Kearney AT. 2013 FDI Confidence Index. Global Business Council 2013; Vol. 13.
- 4. OECD. FDI Regulatory Restrictiveness Index 2013; 2014.
- UNCTAD. World Investment Report 2013: Global value chains- Investment and trade for development, New York and Geneva: United Nation 2013.
- 6. World Economic Forum. The Global Competitiveness Report 2013-2014, 2013
- 7. www.dipp.nic.in
- 8. www.fdi.gov.in
- 9. www. Sebi.gov.in
- 10. www.Rbi.org.in

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# ROLE OF MARKETING COMMUNICATION IN

# **MODERN INDIAN BUSINESS**

Capt. Dr. Ashok V. Giri*

## ABSTRACT.

Integrated marketing communication (IMC) is one of the most controversial areas of Integrated most concept marking a constant progress from the simple coordinating of research, the simple coordinating of promotional tools to a complex strategic process. Further to the evolution of modern promotional to the evolution of modern marketing, where IMC has become a major way of achievement the objectives of a marketing, where is a need to identify opportunities to increase its impact on consumer of different segments w.r.t. age. Therefore, it is of interest, the relatively recent approach found in the literature. In this context, this paper intends to clarify some aspects regarding the effects of IMC on the consumer behavior of different age groups, materialized in the consumer decision- making process. The present paper torches upon the emergence of integrated marketing communications (IMC) that has significantly influenced thinking and acting among all types of companies and organizations facing the realities of competition in the present open economy. It has been proved as an efficient promotional tool to communicate more universally, clear, and The paper put lights on various facets of Integrated Marketing effectively. Communication (IMC) especially in Indian Business Scenario. The challenges and scopes of IMC with the context of strategies, implementation, and audit have also been discussed. The greater utilization of marketing communication tools within an IMC approach can lead to a better overall outcome and may also deliver a more holistic picture. Integrated Marketing Communication approaches have become the accepted norm for agencies offering services to clients. The psychological continuity is a consistent attitude towards a brand or firm. It is reference for company's voice and personality for the consumers. This can be achieved but Integrated Marketing Communication with them. Marketing communication activities must be integrated to deliver a consistent message and strategic positioning.

Keywords: Consumer Behavior, Efficient communication, Identify opportunities, Integrated Marketing, Social networking.

### Introduction:

In today's ever changing "Nanosecond Culture" of social networks, empowered customers and

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hyper competition, we need to be prepared to immediately implement holistic thinking for marketing and communications strategy. With an increase in global competition, technological advances, and fast informed customers, it is important for businesses to make a powerful impact on target audiences and markets. Integrated Marketing Communication (IMC) is one of the most important communications trends adopted all over. It is one such step toward an integrated approach to achieving efficiency by synergy. The emergence of this concept has become one of the most significant examples of development in the marketing discipline. It has influenced thinking and acting among companies but also authorities, state owned companies and political parties, all facing the realities of competition in an open economy. Integrated marketing communication (IMC) emerged during the late twentieth century and its importance has been growing ever since Owing to the impact of information technology, changes came about in the domains of marketing and marketing communications which led to the emergence of IMC.

The multiplication of media, degasification of consumer markets, and the value of the Internet in today's society are just three of the areas in which technological innovation has. This in turn left marketers in a challenging and competitive environment, trying to fulfill customer's wants and needs while also developing long-term relationships with them. IMC can help in creating coordinate consistent messages across various channels of communication. Furthermore, the concept especially valuable in that it places great emphasis on the importance of all stakeholder groups and, in particular, on customer loyalty, which can only be created through strategic relationship building.

### **REVIEW OF LITERATURE:**

We are sure to see innovations in communications research during the next several years, the like of which have never been before seen in the field Integrated Marketing Communication has recognized all the trends by which firms touch customers must be related, aligned and coordinated making it more than advertising, sales promotion and direct marketing programs. Let us assume that the ultimate process of marketing is to deliver higher standard of living through communications. The marketers of twenty-first century should utilize an IMC program, which goes beyond usual marketing concepts of 4p's, trying in addition to generate new ways of creating customers by database .If companies disregard IMC and different messages are not delivered in unison, it may lead to an incoherent brand image, which can negatively influence consumer behavior. To draw the benefits from IMC approach, it is imperative that whole organization, ero functional and subsidiaries understands how IMC works and how IMC plans can be put into activit this is not the case integration will be lost which will intern weaken both corporate brand and relationship. The primary goal of IMC is to affect the perception of value and behavior through communication. The greater utilization of marketing communication tools within an IMC approach can lead to a better overall outcome and may also deliver a more holistic picture..Integrated Marketing Communication approaches have become the accepted norm for agencies offering services to clients. The psychological continuity is a consistent attitude towards a brand or firm. It is reference for company's voice and personality for the consumers. This can be achieved but Integrated Marketing Communication with them. Marketing communication activities must be integrated to deliver a consistent message and strategic positioning."

## MANAGERIAL IMPLICATIONS:

Integrated Marketing Communication is the boost for promotional mix elements, whether it is advertising; direct marketing, interactive/internet marketing, sales promotion, publicity/public relations or personal selling, combining these disciplines to provide consistently and clearly a maximum communication impact. Promotion has been defined as the coordination of all seller-

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initiated efforts to set up channels of information and persuasion to sell goods and services or promote an idea. Promotion is the systematic attempt to move forward step by step prospects from a state of unawareness to awareness then to knowledge and liking, then to preference and conviction and finally to action (purchase) or a positive behavioral response. The communication accomplishes its objectives in a series of mental stages as the receiver or audience moves from unawareness to The purpose of integrated marketing communication should be to maximize customer delivered value. Integrated marketing communication plays a very important role in the actual deal. ability and capacity of firm to innovate and success fully delivers competitive response through value added offerings to their customers.

The various steps commonly followed in an integrated marketing communication process

are:

- Identify the audience to be targeted.
- Determine objectives of your communication.
- Design the message of communication.
- Select your media channel.
- Decide the budget.
- Decide the marketing communication mix.
- Measuring your results.
- Managing and coordinating IMC.

So a centralized strategic planning is the very heart of integrated marketing communication. The use of various options should be centrally planned and coordinated utilizing a systematic strategic planning. Strategy lays down the broad principles by which a company hopes to secure an advantage over the competitors, exhibit attractiveness to buyers and lead to efficient utilization of resources and promote company image. Moreover a successful Integrated Marketing Communication program must have the right combination of promotional tools and techniques that must help companies to identify appropriate and efficient methods for communicating and building relationship with customers as well as other stakeholders, such as employees, suppliers, investors, interest groups and

the general public.  $\bigcirc$ 

## BACKGROUND AND CONCEPT OF IMC:

As a customer centered process integrated marketing communication is the first step in developing a common understanding of its purpose and value. Integrated marketing communication integrates everything that helps a company to promote its business and position its product the market. An integrated marketing communication program must be continuous and strategic oriented. Some early attempts appeared in academic literature. Integrated marketing communication began to be practiced and became a hot topic throughout. suggest that background for the emergence of integrated marketing communication is from three areas first from corporate or client side, an increasing competition and higher risk in markets brought by merging and acquisitions have been required to meet the consumer changing needs more successfully through new marketing strategies. Second from media and market side weakening the traditional trends of advertising and marketing, due to exposure of information technology has increased the search for more effective and cost efficient methods in communications among marketers. Third from, the consumer, as ongoing changes in his life style have made advertisers to develop more elaborate and quicker response communication formats. Today's business environment demands a well managed and equally

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planned relational customer data-base, a focused and customer-oriented approach to customer and clients, and a psychological-driven prospecting approach to Sales. Reich then insists that marketers should combine proven marketing techniques with new integrated marketing communication methods to ensure success. It begins with the product development and includespackaging, pricing, selection of distribution channels, channel management, customer relation ship management, total quality management etc. it involves the multidimensional, interactive. continuously measured communication that connects the brand or product and the customer . The allocation of communication budget, away from mass media and traditional advertising has obviously promoted integrated marketing communication in recognition and effective marketing. The American Association of Advertising Agencies defines integrated marketing communication as "a concept that recognizes the added value of a comprehensive plan that evaluates the strategic roles of a variety of communication disciplines and combines these disciplines to provide clarity, consistency and maximum communication impact".

Apparently in just a short period, the concept of integrated marketing communication became a watch-cry not only of marketing communications, but also an integral part of corportion communication strategies of many companies .it has increased communication impact, made creation ties more effective and provide consistency in communication. Integrated Marketing Communication has evolved over a period of time from awareness level of integration to image level integration to functional integration to coordinate integration to consumer based integration to stakeholder based integration to relationship management integration . It is a promotional tool along with other marketing mix components to gain advantage over competitors using to reach highest level of consumer satisfaction by knowing the right touch points. It is a data driven approach using outside-in thinking focused on identifying consumer insights using both on and off-line channel strategy to develop a stronger brand-consumer relationship .Integrated marketing communication is thus the voice of marketing creating brand awareness, deliver information, educate the market and make a positive image of the company.

### The Evolution Of IMC

Integration, the attempt to present a consistent message across the available promotional mix elements has always been important to successful organizations even during the mid twentieth century

However, some researchers believe that the concept of IMC can be traced back to the 1970s first study on IMC was conducted by Caywood, Schultz, and Wang (1991b) at the end of the 1980s, while the first "conceptual ideas" were published in the book "Integrated Marketing Communications" by Schultz, Tannenbaum, and Lauterborn (1993). IMC advocates believe that its emergence was down to the context of media upheaval of that time, for example, digital TV and mobile phones, market environments, that is, increasing global competition and rapid technological developments, such as the personal computer. Technology can affect IMC from two sides, that is, from the marketing and consumer perspectives. Today, integration is needed owing to globalization and the resulting interdependence between countries and marketplaces . Thus, corporate and brand managers need to coordinate the actions of their global and even national brand(s) with the aim of integrating elements of promotional mix.

## The Concept of IMC

As a concept IMC has become well known on an international scale during the 1990s. Thus IMC is a term whose widespread use is comparatively recent, a fact, which might explain why there not yet is a common understanding of its real meaning and the lack of a generally accepted definition. Some 20 years ago academics and professionals discussed theory and practice of business communication but

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without considering the idea of integration as a realistic approach to reach a competitive strategic position for the company. Some early attempts in the beginning of the 1980s initiated academic strategic and articles appeared in the academic literature. From the beginning of the 1990s IMC became interest hot topic-in the field of marketing. Few years back, major portion of marketing budgets went to advertising, but now the scene has changed, it is allocated into various activities budgets went to promotions, consumer promotions, branding, PR and advertising. The allocation of communication budgets away from mass media and traditional advertising has obviously promoted IMC in recognition and importance. for effective marketing. The emergence of IT has fundamentally individualized patterns of consumption and increased the segmentation of markets and tastes/preferences. The key has been 'value' and several combinations of methods are used, all aiming to raise benefits and reduce costs.

Smith *et al.* (1999) have defined IMC as "the strategic analysis, choice, implementation and control of all elements of marketing communications which efficiently (best use of resources), economically (minimum costs) and effectively (maximum results) influence transactions between an organization and its existing and potential customers and clients". The American Association of Advertising Agencies defines IMC as "a concept that recognizes the added value of a comprehensive plan that evaluates the strategic roles of a variety of communication disciplines, and combines these disciplines to provide clarity, consistency and maximum communication impact".

Integrated marketing communication is integration of all marketing tools, approaches, and resources within a company which maximizes impact on consumer mind and which results into maximum profit at minimum cost. Generally marketing starts from "Marketing Mix" and also includes internet marketing, sponsorship marketing, direct marketing, database marketing and public relations. And integration of all these promotional tools along with other components of marketing mix to gain edge over competitor by knowing the right touch-points using to reach highest level of consumer satisfaction is referred as Integrated Marketing Communication. Using outside-in thinking, it is a datadriven approach that focuses on identifying consumer insights and developing a strategy with the right (online and offline combination) channels to forge a stronger brand-consumer relationship. The objectives of any marketing communication process are to create brand awareness, deliver information, educate the market, and advance a positive image of the product brand. In simpler terms, "IMC refers to speaking with one voice, eliciting a response". Therefore, "IMC is a return to building brands that deserve loyalty".

## Integrated Marketing Communication in Indian Business Context:

India is one of the most favorite markets on the globe. The growing purchasing power of India's huge middle class makes it attractive. However, the customer base in India is extremely fragmented. The huge geographic expanse of the country has resulted in an inconsistent distribution system that is radically different from other countries. Also the cultural diversity of consumer, differences in their tastes, habits, and requirements that make it more complex task to market their goods in a streamlined and consistent manner. The concept of IMC with focused and massive marketing is fairly new to the Indian companies who have traditionally experienced a mixed economy and trade restrictions back home. In a protected economy, the companies had faced restricted competition and consequently did not realize the importance of targeted and more focused marketing. In the absence of well-developed departments for individual elements of marketing communications, a quasi-integrated approach was in practice among various departments in Indian companies.

The idea of IMC still manifests itself in a variety of local and situational ways for marketers. It is

necessary to examine the cultural and social factors with demographic influences, keeping perspective a pertinent analogy of 'GO GLOCAL" with the concept of IMC.

IMC is a major strategic concept that is as evolutionary and discursive in Indian context. A strong need is compulsory here to explore the concept and phenomena of IMC directly in the real world of communication. With the change in communication practices and technologies, integration in marketing techniques is inevitable for Indian companies to survive in this multi-national and multi-cultural world emerging globally. Flow of communication is easy and open and our ability to adapt to these changes has made it a very enthralling and promising place for the global market.

The purpose of integrated marketing communications strategy is to work toward the common goal of customer focused marketing. The Indian marketplace consists of an increasingly complex arena of competitors within a rapidly changing environment. Businesses are now getting Internetbased operations, portraying a charming picture of sophisticated and cluttered market. It is attempting to speak with clear voices about the natures of their operations and the benefits associated with the brands and products. Numbers and variety of media is bombarding potential customers with messages, it is vital to have clear and consistent communication in the clutter. Response to this apparently amorphous marketing environment has led many Indian organizations to desira integration of their communications efforts under the umbrella of this strategic marketing communications function. Effective marketing departments and advertising agencies are developing

Author and	Vear Concepts Introduced
Caywood, Sch Wang (1991, Caywood, Scin Wang (199	<ul> <li>Coordination and consistency of messages and communication channels (one sight one sound).</li> <li>and liz, and liz, and b)</li> <li>Use of a variety of communication disciplines to work in synergy based on a comprehensive plan</li> <li>IMC as a concept.</li> </ul>
Schuitz (199)	<ul> <li>Inclusion of consumers, prospects</li> <li>Behavioral responses</li> <li>Nurture relationship and customer loyalty.</li> <li>IMC as a process</li> </ul>
Duncan and Ever (1993)	Profitable relationships expanded audience scope from customers to other stakeholders.
Nowak and Phelp (1994)	Reinforced notions of consistency, coordination, and behavioral response
Schultz and Schultz (1998)	<ul> <li>Strategic business process.</li> <li>Expanded notion of brand communication.</li> <li>Measurability.</li> <li>Specified the multiple markets more explicitly, inclusive of external and internal audiences.</li> </ul>
Schultz (2004b) and American Marketing Association (2007)	<ul> <li>Strategic business process.</li> <li>Extensive brand communication.</li> <li>Evaluation and measurement.</li> <li>External and internal stakeholder groups.</li> <li>Long-term brand value focus.</li> </ul>
Kliatchko (2005)	<ul> <li>Process and concept</li> <li>Audience-focused</li> <li>Communication program.</li> <li>Result-driven</li> </ul>
ce: Adapted from Kliato	hko (2005: 21)

### Table-1: IMC Definitions

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pipelines of new, talented innovations, media buyers, promotions managers, database web masters, and others in order to succeed in the long term. Employee performance attitudes reflect morale within the marketing department and also relations with other departments and groups. The effect of IMC plans are building bridges with other internal departments and making everyone aware of the thrust and theme of the program. The Indian companies are identifying the target niches on social and attitudinal behavior, and offering common product across different demographics and also formulating the message accordingly. Internet marketing is picking up pace in India with fast technological advancement. Consumption and shopping patterns are changing. Online shopping, credit card usages are being accepted. Professionalism is increasing. Recent liberalization policies have increased competition and enforced new marketing practices in India, the local environment and local markets dictate the need for specialized and integrated approaches.

As demonstrated in Table 1, during the early 1990s IMC was referred to as the one sight, one sound or one voice or the seamless marketing communication approach (Beard, 1997; Nowak and Phelps, 1994; Duncan and Everett, 1993). However, the increasing interest in the subject of IMC led researchers to reevaluate the concept and the "buzz words" were soon set aside (Grove, Carlson, and Dorsch, 2002; Lee, 2002; Fill, 2001; Hartley and Pickton, 1999; Phelps and Johnson, 1996). These words only hinted at the many applications of IMC and, therefore, new concepts were added to the

Many researchers have noted that it may not be possible to agree upon a universal IMC definition, given the various interpretations of IMC and its different values in the academic and commercial spheres (Kliatchko, 2005; Phelps and Johnson, 1996; Stewart, 1996).

A critical review of previous definitions of IMC and an assessment of current IMC literature reveals that researchers were able to reduce any IMC definition to five crucial attributes (Kitchen et al., 2004a; Low, 2000):

- The communication effort should be directed at consumers in order to affect behavior. 1.
- An outside-in approach should be utilized i.e. start with the customer first when 2. developing a communication strategy.
- A well-established relationship between the company and the customer is necessary. 3.
- To deliver a message correctly all communication activities should be included with 4. contact points integrated into the strategy.
- To create a competitive brand, coordination between the communication disciplines is 5. needed.

### Major reasons for the Growing Importance of IMC in India

Several reasons have caused IMC to develop into a primary strategy for marketers in India; few of them are given below-

- Market is now having a rural-urban mix shape 1.
- Occupational diversity (Agriculture to other skills) 2
- 3. Awareness is spreading fast
- Indian consumer is being more smart 4.
- 5. Heterogeneous Demographic Traits
- 6. Diversity in economic conditions

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- 7. Media advertising is shifting to multiple forms of communication focusing at target centered niche media.
- 8. Market is shaping from a manufacturer-dominated market to a retailer-dominated, consumer-controlled-market.
- 9. Technology is getting updated rapidly
- 10. Huge opportunities are available to develop with market
- 11. Manpower is getting performance-based compensation from traditional compensation, sales and profit margins are increasing.

### **KEY CHALLENGES OF IMC:**

Across the globe, there is continuity in market deregulation and emergence of individualized segmentation of consumer tastes and preferences. So IMC being not an easy process has to face internal as well as external challenges. As some markets flee traditional media they still come across some communication clutter. The challenges of IMC are.

- A shift in market place power from manufacturer to wholesaler to retailer/shift in chargers
   power.
- A movement away from relying on advertising focused approach.
- Rapid growth of data base marketing.
- A shift in traditional promotions.
- Change in the way the advertising agencies compensated.
- Rapid growth of internet marketing.
- Growing competition in relationship marketing.
- Change from mere information delivery to value delivery.
- Consumer empowerment.
- Fragmentation of media.
- Increasing advertising clutter.
- Desire for greater accountability.

### Conclusion

The emergence of integrated marketing communications (IMC) has become a significant example of development in Indian marketing discipline. It has influenced thinking and acting among all types of companies and organizations facing the realities of competition in the present open economy. It is the judicious and efficient use of the product promotional tools so that a universal, clear, and effective promotional message is communicated amongst the target audience. Integrated Marketing Communication (IMC) is more than the coordination of a company's outgoing message between different media and the consistency of the message throughout. This also facilitates in ascertaining the effectiveness of the overall marketing effort to evaluation of brand messages. It is an aggressive marketing plan that captures and uses an extensive amount of customer information in setting and tracking marketing strategy. As the IMC strategies should be based on situation analysis and SWOT analysis, a periodical implementation would be significant. The need of the audit of the IMC process should be well understood and measurement and evaluation of the effectiveness should be taken care of. The primary goal of affecting the perception of value and behavior through IMC has technical to be checked up carefully. Indian consumption pattern changing rapidly, are

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advancements are fast, development and diffusion of IMC program should closely be associated with these changes. Objectives and strategies must be elastic enough to mould accordingly. In order to reach a better result, the marketers needs to develop marketing integration as occurring different levels and degree of various functions. The most important and fundamental level should be of vertical integration of objectives and activities. Within their own organizations, marketers should recognize the importance of creating important position with clear responsibility at different level on performance and productivity basis.

At last but not the least the key is 'Value' and all efforts must be in level-headed way to deliver in order to reduce the cost and increase the benefits. Integrated Marketing Communication can perform and lead to way to reap the benefits if exercise as a unit in order to attain the common objective of delivering the value to customer.

### **References:**

- 1. Aaker, D.A., (2004). "Leveraging the Corporate Brand", California Management Review, 46 (3), 6-18.
- 2. Alan, M., (1994). "In Good Company", Marketing, March 3rd, 22-24. ()
  - 3. Alessandri, S. W., and Alessandri, T., (2004). "Promoting And Protecting Corporate Identity: The Importance of Organizational And Industry Context", Corporate Reputation Review, 7 (3),
  - 4. Alvarez, J. G.; Raeside, R., and Jones, W. B., (2006). "The Importance of Analysis and Planning In Customer Relationship Marketing: Verification of The Need For Customer Intelligence And Modelling", Database Marketing and Customer Strategy Management, 13 (3), 222-230.
  - 5. Caywood, D., Schultz, D.E., Wang, p. (1991), "Integrated marketing communications: a survey of national goods advertisers", unpublished report, Medill School of Journalism, Northwestern University, June.

6. Coulson-Thomas, C.J. (1983), Marketing Communications, Butterworth-Heineman, Oxford.

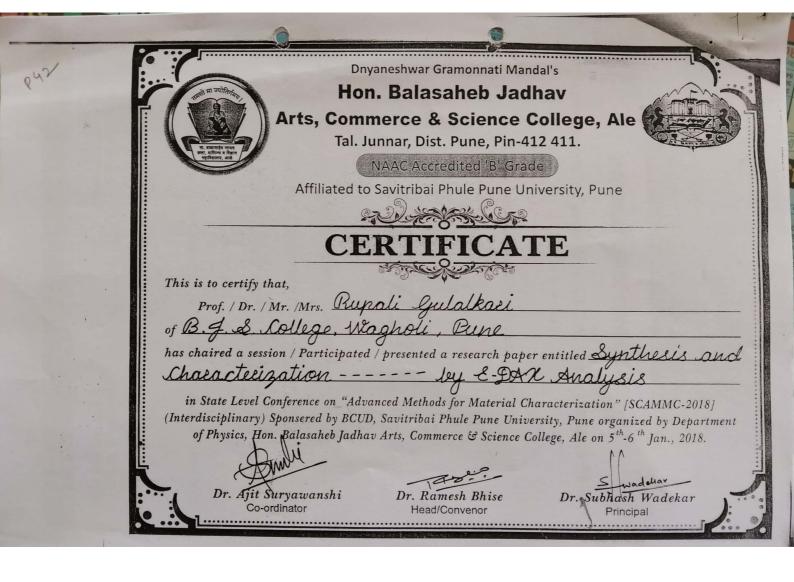
7. Dyer, G. (1982), Advertising As Communication, Routledge, London, .

- 8. Kitchen, P.J., Schultz, D.E. (1999), "A multi-country comparison of the driver for IMC", Journal of Advertising Research, Vol. 39 No.1, pp.17-21.
- Miller, D., Rose, P.B. (1994), "Integrated communications: a look at reality", Public 9. RelationsQuarterly, Vol. 39 No.1, pp.13.
- 10. Smith, P.R., Berry, C., Pulford, A. (1999), Strategic Marketing Communications, KoganPage, London.
- 11. Lavidge, R.J. (1999), "Mass Customization is not an Oxy-moron. Journal of Advertising Research, Vol.39, No. 4, pp. 70-72.
- 12. McGrath, J.M. (2005), "A Pilot Study Testing Aspects of IMC Concept", Journal of Marketing Communications, Vol.11 No.3, pp.1-20.
- 13. Panda, T.K. (2003), "Marketing Management", Excel Books, New Delhi
- 14. Peltier, J.W., Schibrowsky, J.A. and Schultz, D.E. (2003), "Interactive Integrated Marketing Communications; Combining the Power of IMC: The new media and Database Marketing". International Journal of Advertising, Vol. 22, pp. 93-115.

Quest : The Research Annual of Garware College of Commerce, Pune 9 67

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- Reich, K. (1998), "Integrated Marketing Communications through the looking Glass of the new Millennium". Communication World, Vol. 15, No. 7, pp. 26-33.
- 16. Rid, M., Luxton, S., and Mavondo, F. (2005), "The relationship between IMC, Market Orientation and Brand Orientation, Journal of Advertising, Vol. 34 No. 4, PP. 11-23,
- Sisodia, S., Telrandhe, N. (2010), "Role of Integrated Marketing communication in Modern Indian Business". Researchers World. Journal of Arts Science and Commerce, Vol. 1, No. 1, pp. 134-138.\
- Schultz, D.E. (2003), "The Next Generation of Integrated Marketing Communication", Interactive Maketing, Vol. 4, No. 4, pp. 318-319.
- Schultz, D.E. and Schultz, D.E. (1998), "Transitioning Marketing Communication into the Twenty-First Century". Journal of Marketing Communications, Vol. 4, No. 1, PP. 9-26.
- Smith, T.M., Gopalakrishna, S. and Chatterjee, R. (2006), "A Three Stage Model of IMC at the Marketing-Sales Interface, Journal of Marketing Research, Vol.43 No.3, PP.561-579.
- at the Markening-Gales Internet, Programment and Communication Management", Englew Control
   Michael, L.R. (1982), "Advertisement and Communication Management", Englew Content
   Chiffs, NJ, Printice Hall.

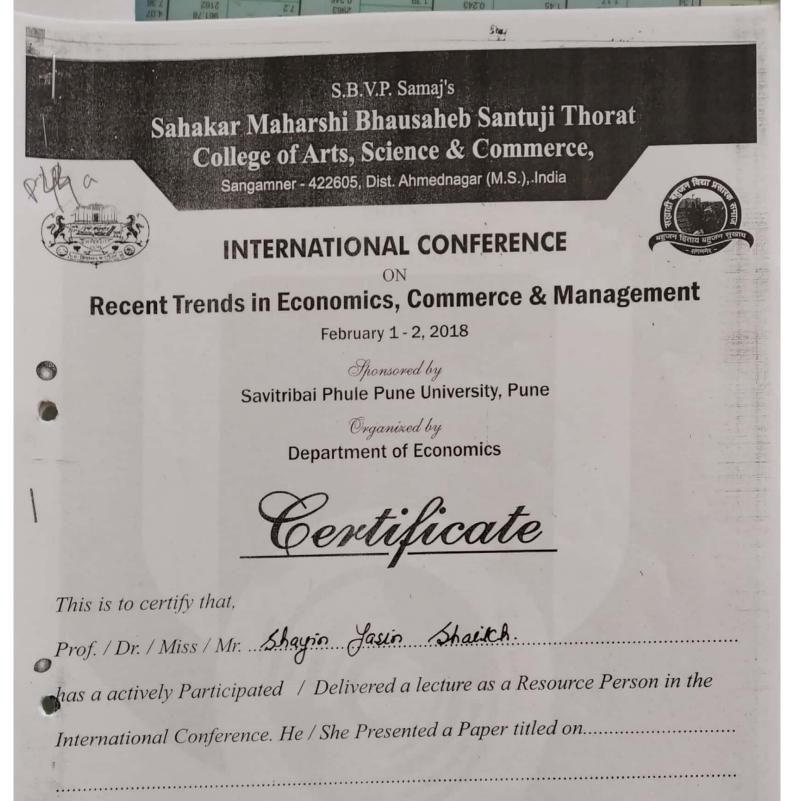
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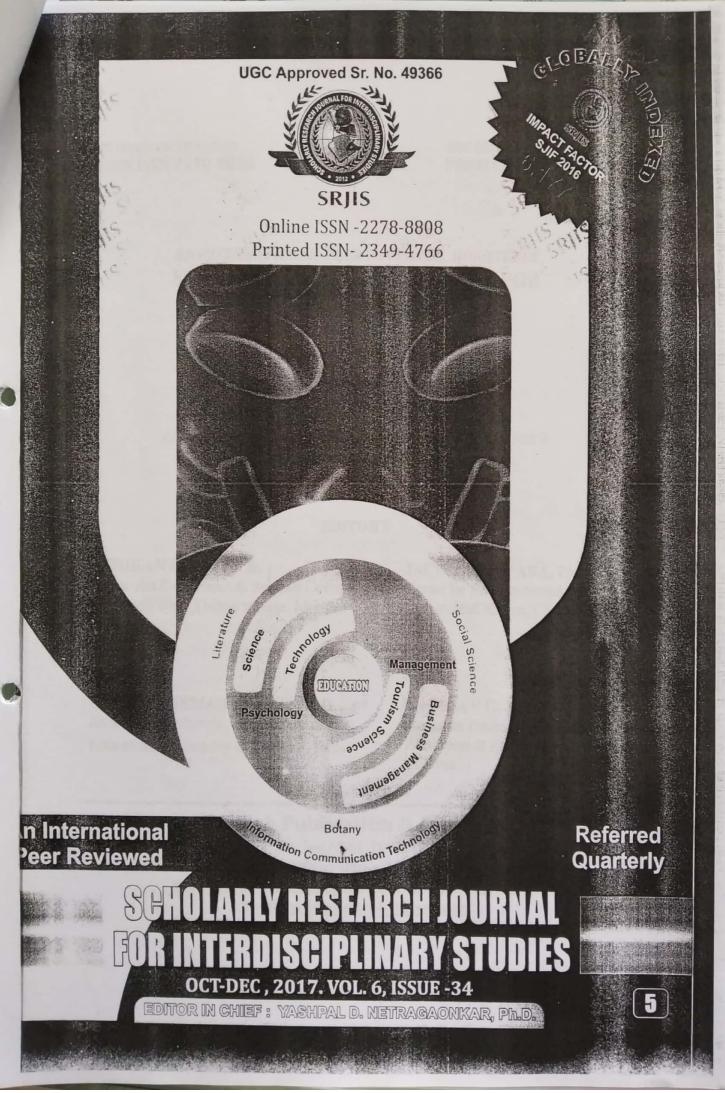
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प्रा. डॉ. विजयकुमार वावळे, शायिन यासिन शेख (1203-1209)

मानव विकास निर्देशांक व भारतीय मुस्लिम समाज— अहमदनगर जिल्ह्यातील श्रीरामपूर तालूक्यातील शहरी भागाचा एक व्यष्टी अध्ययन

### प्रा. डॉ. विजयकुमार वावळे, शायिन यासिन शेख

प्रस्तूत शोध निबंधामध्ये अहमदनगर जिल्ह्यातील श्रीरामपूर तालूक्यातील शहरी मुस्लिम समाजाचा मानव विकास निर्देशांक अभ्यासण्यात आला आहे. विश्लेषणासाठी त्यामध्ये आरोग्य, शिक्षण, जीवनमानाचा दर्जा व दरडोई उत्पन्न हे निर्देशक वापरले आहेत.

• प्रस्तावना :- दरवर्षी मानव विकास निर्देशांक प्रसिध्दीसाठी जगातील विकसित, विकसिनशील व अविकसित देशांचे तीन भागात असे वर्गीकरण करण्यात येते. UNDP ने १९९० मध्ये पहिल्यांदा मानव विकास अहवाल जाहिर केला होता. त्यामध्ये विविध देशांचे HDI मोजण्यात आले होते. त्यामागील प्रमुख प्रेरणा होती ती मानव विकास निर्देशांकाचे जनक पाकिस्तानी अर्थतज्ञ महबूब-उल-हक आणि भारतीय अर्थतज्ञ अमर्त्य सेन यांची. आपल्या भारतामध्ये २००२ पासून मानव विकास अहवाल प्रसिध्द केला जातो. भारतात हा अहवाल योजना आयोगाद्वारे (निती आयोग) सादर करण्यात येत असे. सध्याच्या सरकारने योजना आयोग बंद केला आहे. HDI पढील तीन निकष (dimension) व त्यांच्याशी संबंधीत चार निर्देशक (indicators) यांवरून काढला जातो. त्यामध्ये a) आरोग्य (Health):- जन्माच्या वेळेचे आयुर्मान ही निर्देशक वापरला जातो. b) शिक्षण (Education):- i) २५ वर्षापेक्षा अधिक वयाच्या प्रौढांची सरासरी शालेय वर्षे (Mean years of schooling), आणि ii) १८ वर्षांपेक्षा कमी वयाच्या मुलांची अपेक्षित शालेय वर्षे (Expected years of schooling). शिक्षणाचा निर्देशांक या दोन्ही निर्देशकांचा भूमितीय मध्य असतो. c) जीवनमानाचा दर्जा (Living Standerds) :- दरडोई स्थूल राष्ट्रीय उत्पन्न (Percapita GNI) हा निर्देशक वापरला जातो. प्रत्त्याचे मूल्य ० ते १ दरम्यान व्यक्त केले जाते. १ च्या जवळ असलेले मूल्य मानव विकासाचा उच्च स्तर दर्शवितो. भारताची गणना मध्यम मानव विकास (medium human development) गटात आहे. उपरोक्त विषयाचे सूक्ष्म अध्ययन करण्यासाठी अहमदनगर जिल्ह्यातील श्रीरामपुर तालूक्यातील शहरी मुस्लिम समाज नमुना म्हणून निवडला आहे. या संबंधीत खालील समस्या, उद्दिष्टे, गृहितक व संशोधन पध्दतीचा अवलंब केला आहे.

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• समस्या विधान :- अहमदनगर जिल्ह्यातील श्रीरामपूर तालूक्यातील शहरी भागाती मूस्लिम समाजाचा मानव विकास निर्देशांकांत उच्च स्तर दर्शवितो का?

 उद्दिष्टे :- अहमदनगर जिल्ह्यातील श्रीरामपूर तालूक्यातील शहरी भागातील मुस्लि समाज्याच्या मानव विकास निर्देशांकांचा अभ्यास करणे.

 गृहितक :- अहमदनगर जिल्ह्यातील श्रीरामपूर तालूक्यातील शहरी भागातील मुस्लि भार समाजाचा मानव विकास निर्देशांक उच्च स्तर दर्शवितो.

• संशोधन पध्दती :- या अभ्यास विषयाची माहिती मिळविण्यासाठी प्राथमिक व दुया भार स्रोतांचा उपयोग केला गेला आहे.

• नमुना निवड :- अहमदनगर जिल्ह्यातील श्रीरामपूर तालूक्यातील शहरी भागातील वार्ड न २ या भागातील ४० कुटूंबांची साध्या यादृच्छीक नमुना निवड या पध्दतीने निवड केल आहे.

• मर्यादा :- श्रीरामपूर तालुक्यातील शहरी भागातील मुस्लिम समाजातील नमुना निवडलेल् व्यक्तीच्या प्रश्नावली भरून देण्याच्या प्रतिसादावर तसेच त्यांनी दिलेल्या मुलाखतीतील उत्तरांवर त्यांचा मानव विकास निर्देशांक आधारित आहे.

• पूर्व अभ्यास (Review of Literature):-

१. Sachar Rajindar Committee Report (२००६)^१:-या अहवालात असे, संप दिसते की, भारतीय स्वातंत्र्याच्या ७० वर्षा नंतर मुस्लिमांची सामाजिक व आर्थिक स्थित अतिशय मागासलेली आहे. तर त्यांच्या काही निष्कर्षात मुस्लिमांची स्थिती अनुसूचि जातींच्या पेक्षा खूप मागासलेली आहे.

२. Rehman Mahmmadur Committee Report (२०१३)^२ :- रेहमान समिती महाराष्ट्र राज्यातील मुस्लिम समाजाचा अभ्यास केला आहे. त्यांच्या अध्यनानुसार मुस्लिमां शैक्षणिक स्थिती चांगली आहे. मात्र मुस्लिमांची आर्थिक, सामाजिक, प्रशासकिय व राजकि स्थिती खालावलेली आहे. या समाजाचे शासकिय पातळीवर प्रतिनिधीत्व करण्यासाठ राजकिय दृष्टिकोनातून त्यांचा विकास आवश्यक असल्याचे प्रतिपादन रेहमान समितीने केल आहे.

३. Kundu Amitabh Committee Report (२०१४)^३:- या अहवालामध त्यांनी असे नमूद केले आहे की, सच्चर समितीच्या शिफारशी नंतर ही मुस्लिम समाजातील सामाजिक व आर्थिक मागासलेल्या स्थितीत लक्षणीय बदल झालेला दिसून येत नाही. यांग अर्थ मुस्लिम राजकिय नेतृत्वाचा अभाव व समाजाची इच्छाशक्तीचा अभाव कारणीभू दिसून येतो.

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४. मानव विकास अहवाल (२०१६) :- UNDP कडून '' ह्यूमन डेवलपमेंट फॉर प्रोग्राम'' या शोर्षकाखाली मानवी विकास अहवाल २०१६ जाहीर करण्यात आला. HDI यासाठी १८८ देशांचे मूल्यांकन केले गेले. HDI नुसार: प्रथम पाच देशांमध्ये नॉर्वे, ऑस्ट्रेलिया, स्वित्झर्लंड, जर्मनी आणि डेन्मार्क हे आहेत. सन १९९० आणि सन २०१५ या काळात भारताची मानव विकास निर्देशांक गुणांमधील प्रगतीमध्ये सुमारे अर्ध्याने वाढ झाली आहे. भारतात सार्वजनिक आरोग्यावरील खर्च हा GDP च्या १.४ टक्के एवढा आहे. तरीही भारताने सन १९९० आणि २०१५ या काळात जन्माच्या वेळी आयुर्मान १०.४ वर्षापर्यंत वाढते केले आहे. बाल कुपोषण जवळजवळ १० टक्क्यांनी कमी झाले आहे. HDI मध्ये, भारत ० ६ २४ गुणासह १८८ देशामध्ये १३१ व्या स्थानी आहे. यामुळे भारत मध्यम मानव विकास वगतिलि देशात आला आहे. भारताची HDI (१९९०–२०१५) मधील वार्षिक सरासरी वाढ इतर मध्यम HDI देशांपेक्षा जास्त आहे.

• मानव विकास निर्देशांक संकल्पना :- जागतीक स्तरावर UNDP ने विविध निर्देशांक रचना केली आहे. त्या आधारे देशांची तुलना करणे शक्य झाले आहे. UNDP मार्फत दरवर्षी 'मानुव विकास अहवाल' जाहीर केला जातो. या अहवालात विविध देशांसाठी पुढील ४ प्रमुख निर्देशांकांची गणना केली जाते. १. मानव विकास निर्देशांक, २. असमानता-समायोजित मानव विकास निर्देशांक, ३. जेंडर असमानता निर्देशांक आणि ४. बहुआयामी दारिद्रय निर्देशांक. • बहुआयामी दारिद्रय निर्देशांकाची (Multi-Dimensional Poverty Index : MPI) सुरूवात UNDP आणि ॲक्सफर्ड विद्यापीठ यांनी मिळून जुलै २०१० मध्ये केली. या निर्देशांकाने १९९७ पासून लागू करण्यात आलेल्या मानवी दारिद्रय निर्देशांकांची (HPI) जागा घेतली. विकासा प्रमाणेच दारिद्रय सुध्दा बहुआयामी (Multi-Dimensional) असते. हा निर्देशांक ३ निकष व १० निर्देशांकाच्या सहाय्याने काढला जातो. १. आरोग्य : i). पोषण, ii). बाल मर्त्यता २. शिक्षण : i). शालेय वर्षे ii). बालक पटसंख्या ३. जीवनमान दर्जा : i). मालमत्ता ii). वीज, iii). पाणी, iv). स्वच्छतागृह, v). स्वयंपाकाचे इंधन vi). जमीन (अस्वच्छ जमीनीवरील जगणे) • माहितीचे विश्लेषण :- मानव विकास निर्देशांक व मुस्लिम समाज—अहमदनगर जिल्ह्यातील श्रीरामपूर तालूक्यातील शहरी भाग एक व्यष्टी अभ्यास या अभ्यासाकरिता निवड केलेल्या ४० लाभार्थी कुटूंबांकडूंन गोळा केलेल्या माहितीवर आधारित विश्लेषण खालील प्रमाणे आहे. श्रीरामपूर तालुक्यातील मुस्लिम समाजातील लाभार्थी कुटूंबातील आरोग्यविषयक निर्देशक (तक्ता क्र. १), शिक्षणविषयक निर्देशक (तक्ता क्र. २), दरडोई

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उत्पन्न (तक्ता क्र. ३), राहणीमानाची स्थिती/जीवनमानाचा दर्जा (तक्ता क्र. ४) खालील प्रमाणे दर्शविले आहे.

• आरोग्य विषयक निर्देशांक :- शिक्षणातून प्राप्त केलेली कौशल्ये वापरण्याची क्षमता आरोग्याच्या स्तरावर अवलंबून असते. दीर्घ जीवनकाल (Longevity) दर्शविणाय निर्देशांकामध्ये पुढील बाबींचा समावेश होतो. जन्माच्या वेळेचे आर्युमान, अर्भक मृत्यू दर बालमृत्यूदर, माता मृत्यूदर, पोषण दर्जा, स्वच्छतेची स्थिती इत्यादी.

तक्ता क्र. १

आरोग्यविषयक निर्देशक

आरोग्य विषयक	बालमृत्यू का?	झाले आहे	वय				बालमृत्यू कारणे	वे	कुपोषणाच	गी स्थिती
स्थिती	होय	नाही	0-8	१−३	3-8	8-4	कुपोषण	इतर कारणे	होय	नाही
संख्या	०१	39	00	00	00	08	05	00	१५	२५
टक्केवारी	२.५%	९५.५%	00%	00%	00%	२. ५%	२.५%	oo%	<b>ર</b> ७. ५%	६२.५%

स्त्रोत:- क्षेत्रीय अभ्यास

**Û शिक्षणविषयक निर्देशक :-** देशातील शैक्षणिक स्तर दर्शविण्यासाठी साक्षरता दर महिलांची साक्षरता, विभिन्न वयोगटातील शाळकरी मुलांचे स्थूल व निव्वळ पटसंख्या प्रमाण (Drop out ratio) विद्यार्थी—शिक्षण प्रमाण यांसारखे सूचक वापरले जातात.

तक्ता क्र. २

शिक्षणविषयक निर्देशक

कौटूंबिक शैक्षणिक स्थिती	निरक्षर	and a second state state	शिक्षण	उच्च माध्यमिक शिक्षण	पदवी	पदव्युत्तर	डिप्लोमा	अभियांत्रिकी	वैद्यकिय	आटीआय
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स्त्रोत:- क्षेत्रीय अभ्यास

**Ú दरडोई उत्पन्न :-** दरडोई उत्पन्न म्हणजे राष्ट्रीय उत्पन्न भागिले लोकसंख्या होय. देशाचे दरडोई उत्पन्न जास्त असले तरी मात्र त्याचे व्यक्तीनिहाय वितरण अत्यंत असमान असू शकते.

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तक्ता क्र. ३ एकुण उत्पन्न व दरडोई उत्पन्न

बाब	एकुण उत्पन्न	दरडोई उत्पन्न	
संख्या	१७,१४,०००	9028.04	

स्रोतः- क्षेत्रीय अभ्यास

तक्ता क्र. ४

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### राहणीमानाची स्थिती/जीवनमानाचा दर्जा

जीवन	घरा	ची सि	थती	पेय	खच्छ जला स्थिती	ची	स्वच	छता गृ	हे	वी	ল	स्व	यंपाक इंधन	ाचे		न (अन् नीन व जगणे)	
मानाचा दर्जा	कच चा	मध्य म पक का	पक्क ा	सार्व जनि क	नळ	इत र	वैयक्ती क	सार्व जनि क	नाह ी	होय	नाह ी	गॅस	चूल	इत र	माती	फरश गी	इतर
संख्या	११	89	20	20	219	09	86	२१	2	38	4	36	80	२१	90	२२	१२
टक्केवा री	રહ. ५%	४७. ५%	२५ %	цо %	४२ . ५ %	२२ ५ %	XUVA	५२. ५%	२. ५ %	24 %	१२. ५ %	९५ %	२५ %	५२ ५२ ५२	१५ %	44 %	₹° %

स्रोत:- क्षेत्रीय अभ्यास

• निष्कर्ष :-

१. सर्वेक्षित लाभार्थी मुस्लिम कुटूंबामध्ये सन २०१७–१८ या कालावधीत कुपोषणामुळे १. (३९५ टक्के) बालमृत्यू झाले आहे. तर ३९ (९७.५ टक्के) कुटूंबामध्ये बालमृत्यूचे प्रमाण दिसून येत नाही. तर १५ (३७,५ टक्के) सर्वेक्षित लाभार्थी मुस्लिम कुटूंबामध्ये कुपोणाची स्थिती असून २५ (६२.५ टक्के) कुटूंबामध्ये कुपोषणाची स्थिती दिसून येत नाही. (तक्ता क्र. १)

२. सन २०१७-१८ या कालावधीतील सर्वेक्षित लाभार्थी मुस्लिम कुटूंबामध्ये कौटुंबिक व महिलांची शैक्षणिक स्थिती अनुक्रमे निरक्ष ५२.५ टक्के इतकी समान आहे. प्राथमिक शिक्षण पूर्ण करणारे ९५.५ टक्के व ८५ टक्के, माध्यमिक शिक्षण घेणारे ९० टक्के व ७७.५ टक्के, उच्च माध्यमिक शिक्षण घेणारे ४२.५ टक्के व ३२.५ टक्के, व पदवी शिक्षण घेणारे १७.५ टक्के व ७.५ टक्के असून पदव्युत्तर शिक्षण, डिप्लोमा, अभियांत्रिकी शिक्षण, वैद्यकिय शिक्षण, आय. टी. आय. या शैक्षणिक क्षेत्रात शिक्षण घेणारे मुस्लिम लाभार्थी कुटूंबे सर्वेक्षणात दिसून येत नाही. मुस्लिम समाजातील शैक्षणिक स्थिती खालावलेली असून मुस्लिम समाजातील महिलांची स्थिती अतिशय दयनीय म्वरूपाची आहे. यावरून मुस्लिम समाजातील कुटूंबामध्ये शाळा गळतीचे प्रमाण आजही मोठ्या प्रमाणात आहे. (तक्ता क्र. २)

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Semment of India, (2006), Sachar Rajindar Committee Report, Social marcational Status of the Muslim Community of India, Publication Oxford Traversity Press, New Delhi.

Socio-Economic and Educational Backwardness of Muslim in Maharashtra, Rublished by B.E.S.Mumbai.

Evaluation Committee, Ministry of Minority Affairs, New Delhi.

WDP (2016), Human Development Report 2016, Published in UNDP Programmed, New York.

wernment of India, (2002), National Human Development Report 2001, Planning Commission, New Delhi.

ries website.

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# State level Seminar on Advanced Methods for Material Characterization" (SCAMMC-2018)



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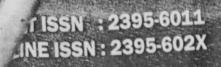
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# National Conference on Green Approach towards Environmen and Chemical Science

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## Miraculous Properties of Lohabhasma Proven by Modern Techniques

Dr. Rupali A. Gulalkari

Department of Chemistry BJS College Wagholi, Pune, Maharashtra, India

### ABSTRACT

ISRST

Ayurvedic system of medicine includes an important class of drugs of mineral origin under which there is as subclass known as ayurvedicbhasmas. These are derived from metals like gold, silver, copper, iron, lead, supreme medicines due to their extraordinary medicinal properties. However, according to the modern science, heavy metals referred above are difficult to absorb at cellular levels and therefore are toxic and harmful to human bodies. As against this according toayurved, all these elements, after ayurvedic processes of bhasmikarananot only lose their toxicity but miraculous medicinal properties are induced when they are transformed into what is called as bhasma state. In an attempt to elucidate the exact nature of this bhasma state, we found that a genuine ayuvidicbhasma possesses two characteristics (i) extremelytiny particle size, tending to nano level of the order of 20-90 nm and (ii) attachment of an organic components to these nanosizedbhasma particles. These findings are expected to be useful to throw light on the medicinal potential of ayurvedicbhasma.

Keywords : Ayurvedic System , Bhasma, E-DAX, XRD

### I. INTRODUCTION

Ayurved firstly introduced the concept of "Bhasma" in its medicinal system. Originally, ayurvedic system of medicine was mostly restricted to medicinal plants (vanaushadhi) and to, some extent to animal products such as cowurine, cowdung, cowmilk, honey etc. Later on metal-based bhasmas were introduced and subsequently they constituted the most important class of drugs of mineral origin.

The art and sciene of ayurvedicbhasmas in general and metal-based bhasmas in particular is the subject of "ayurved rasashastra", which is an extremely important and interesting branch of ayurved. The origin, history, developments in ayurvedrasashastra is itself an attractive and promising area for research especially for chemists. Research in this subject will be also relevant and encouraging in coming years because ayurved and ayurvedic medicines will receive more and more appreciation and importance all over the world. Metalbased ayurvidic drugs being the superior drugs as compared to all other classes of drugs, there is an excellent opportunity to rejuvenate this original art with the help of modern scientific developments. The present work is an attempt from this point of view.

### II. SYNTHESIS AND CHARACTERIZATION OF METALLICBHASMAS

### Synthesis of Metallic Bhasmas.

Preparation of bhasma is an elaborate process involving shodhana, marana and bhasmikarana. The classical texts of Ayurveda prescribe in detail these processes. Metals are first purified through a process called shodhana, during which the metal is repeatedly heated and then s cooled in herbal extracts. This is fillowed by bhasmikarana where, the shodhit metal is repeatedly triturated with herbs (bhavana) and calcinated in closed earthen crucibles in a pit, by buringcowdung cakes (a Process called puta), to obtain bhasma. The size of pit, the number of cowdung cakes to be used to obtain a specific temperature and duration of heating are specified in detail in standard ayurvedic texts. This process is repeated as many times as prescribed in classical texts for each preparation. Thus we have dashaputa (10 cycles), shataputa (100 cycles), Sahastraputa (1000 cycles) etc. to ensure that the bhasma is properly prepared. To confirm the formation of a genuine bhasma a set of tests are also specified (Ayurvedic Formulary of India, 2003).

Though bhasma preparations are widely used in ayurved, practically noting is known as to what happens to the metal when it is subjected to bhavana with herbs and subsequent calcinations processes. The traditional texts also don't throw any light on the changes undergone by a metal during the obove processes.

The synthesis of an ayurvedicbhasma generally involves three major steps given below and illustrated in following flow sheet Ayurvedic purification of the metal (shuddhi).

- a. Destruction of metallic state (marana).
- b. Conversion of crude product into bhasma state (bhasmikarana).

## Synthesis of Lohabhasma as a representative example

There are numerous methods reported in literature for the synthesis of lohabhasma which is an ancient and famous iron based ayurvedic preparation. Out of these following three methods are selected for the present work.

### 1.1 Method Using Plant (Kanchnar) Material

In this method the general purification was first done by the standard method. For special purification trifala extract was prepared in cowurine and the above processed iron powder was heated to red heat and then dipped in this extract successively seven times. The process of marana was done in the juice of kanchnar (bauhinia variegate). For this purpose the purified iron powder was mixed with this plant juice in a mortar and the mixture was triturated till a homogenous paste is

formed. This paste was transformed to closed crucible system and then subjected to gaja-puta.

The process of bhasmikarana was also done in the same way as that for marana but here the trituration for plant juice followed by gaja-puta was repeated seven times.

### 1.2 Method Using cow-urine

In this method the first operation was identical with that described for general purification.For special purification, the above processed iron powder (500g) was heated and dipped in freshly collected cow-urine. This operation of heating and dipping the hot iron powder in cow urine was repeated seven times.

After special purification, the iron powder was taken in a mortar and mixed with cowurine and the mixture was triturated for six hours keeping it in viscous state. This mixture was kept overnight for interaction to complete the destruction of metallic state (marana).

Finally for bhasmikarana, the above iron powder is mixed with cow-urine in a mortar and triturated till a homogenous paste is obtained. The paste is transferred to closed crucible system and subjected to gaja-puta. Total seven gaja-puta are given

Finally for bhasmikarana, the above iron powder is mixed with lemon juice in a mortar and triturated till a homogenous paste is obtained. The paste is transferred to closed crucible system and subjected to gaja-puta. Total six gaja-puta are given.

## III. Characterization and particle size Determination

### Chemical Composition by E-DAX

The quantitative determination of the elemental constituents of the two lohabhasma samples to establish their chemical composition was done through EDAX model Inc

Mahwah NJ USA. The E-DAX patterns are shown in figure 1.1 and the result of analysis is shown in table 1.1

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### Table 1.1. Chemical Composition by E-DAX

Method	С	0	Fe	Al	Si	Cr	K	S	Ca
Method I	30.40	28.07	35.60	0.40	1.02	-	0.15	0.58	1.91
Method II	36.93	28.30	29.14	-	0.77	3.43	1.17	0.26	-

#### 1.3 Phase analysis by XRD and partile size determination

The investigations were done to examine the crystalline modifications of iron oxides. The XRD patterns were recorded on Phillips X-pert Pro Powder diffratometer in the diffraction range (10.90)2. Debye Scherrer equation was used to calculate mean crystallite size.

The XRD patterns with relevant details are shown in Fig. 2.2 while the results of phase analysis and particle size determination are shown in Table 2

Sr. No.	Method	Major Constituent	Solid State Nature	Crystallite Size
1.	Method I	Hamatite	Microcrystalline	39.7 nm
2.	Method II	Fe2O3	Mostly Amorhous	23.5 nm

### Table 2.2. components identified through XRD

### Evidence for organic component 14

The significant percentage of carbon identified by E-DAX and the nature of the IR spectra of lohabhasma (as well as for metallic bhasmas obtained from other metals) give some indications in favour of the presence of organic components associated with lohabhasma particles. However, since EDAX is unable to detect the presence of hydrogen and solid state IR spectra show poor resolution, some confirmatory evidence to support the presence of such organic component is necessary. For this purpose samples of lohabhasma(method II) were refluxedon pure toluene for 12 hour for three successive times and the soluble part was isolated. The IR spectra as well as electronic spectra (200-700 nm) in spectroscopic chloroform are then recorded)Tjese spectra gave confirmatory evidence for the presence of organic components. The exact nature of this component is under investigation at present.

### **IV. Conclusions**

According to the ayurvedic principals, metals as well as non-metals alone, cannot exhibit extraordinary medicinal properties in their inorganic from. Therefore, pure metal oxides; sulfides; silicates; carbonates or phosphates' are not known to possess significant medicinal properties and also they are not assimiable to human bodies. But when they are transformed info their bhasma state miraculous medicinal properties are claimed to be induced in them. Two major factors seem to be responsible for induction of tremendous medicinal potential in the bhasma state. These may be (a) extremely tiny size tending to nanolevel (10-90 nm) of the bhasma particles and (b) organic component imparted to these tiny bhasma particles.

In the present work, encouraging experimental evidence is obtained in favour of both these factors. Similar results and evidence is obtained in metallic bhasmas derived from copper, gold, tin and zinc. These result and evidences are expected to be useful to throw some light on the nature of ayurvedicbhasmas and their claimed extraordinary medicinal properties.

### V. Acknowledgement:

Im very much thankful to Dr. B.A Kulkarni ,Dr. RajendraKankaruya and MrudulaWadekar for cooperation to me for doing this work.

#### VI. REFERENCES

S.B. Kulkarni –Dudhgaonkar
 Rasarattnasumuccya Shivaji University,
 Kolhapur publication (1970)

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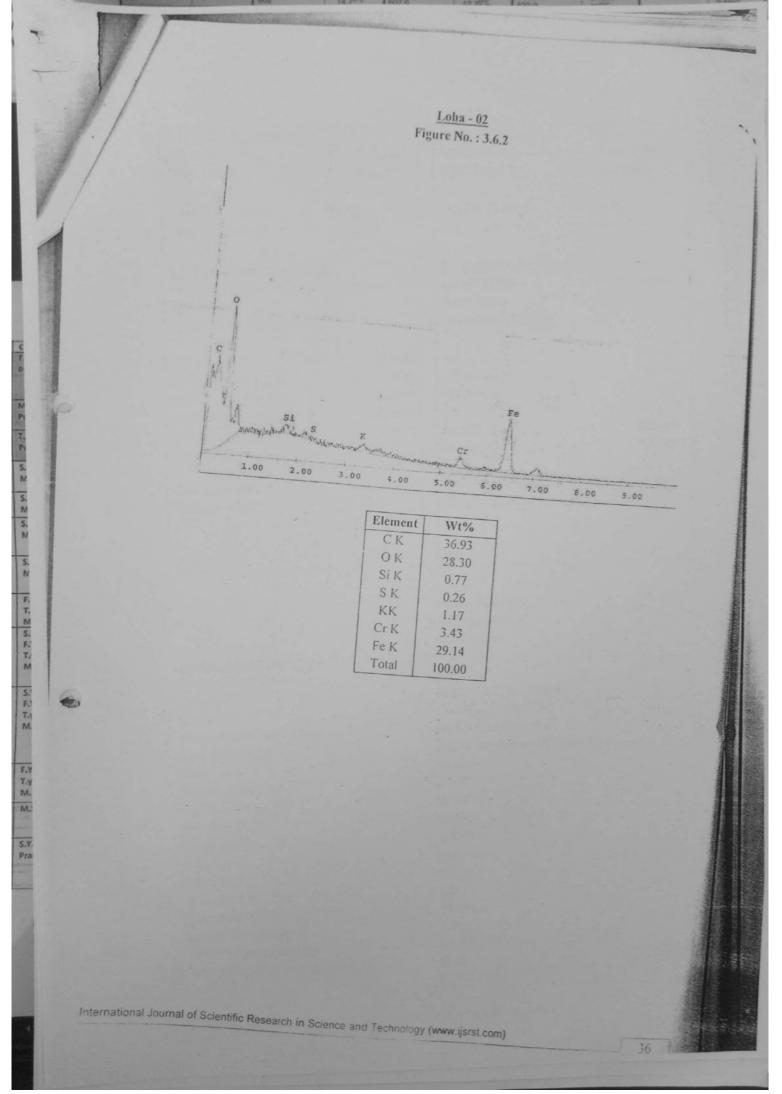
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- [2]. PanditKashinathShastri, RAstarangini (Hindi) MotilalBanarasidasDehli (2004)
- [3]. M.P. Wadekar, C.V. Rode, Y.N. Bendale, K.R. Patil and A.A. Prabhune preparation and characterization of copper-based Indian Traditional Drugs TamraBhasma journal of pharmaceutical and Biomedical Analysis 39, 951 (2005)
- [4] M.P. Wadekar, C.V. Rode, Y.N. Bendale, K.R. patil, A.B. Gaikwad, A.A. Prabhune Effect of calcinations cycles on the preparation of tin oxide based traditional drugs. Studies of its formation and characterization J. of pharmaceutical and biomedical Science, 41 1473-1478 (2006)

<u>E-DAX ANALYSIS</u> Figure No. : 3.6.1 <u>Loha – 01</u>

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lement	Wt %	
CK	12.95	
OK	24.66	
	9.86	
AIK	1.01	
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AIK	51.52	
AIK		51.52



Name and Formula			Name and Formula		
Reference Code	1	01-076-1821	Reference Code	;	01-084-0306
ICSD Name	:	Iron Oxide	ICSD Name	;	Iron Oxide
Empirical Formula	t	Fe ₂ O ₃	Empirical Formula	4	Fe ₂ O ₃
Chemical Formula	-	Fe ₂ O ₃	Chemical Formula		Fe ₂ O ₃
Crystallographic Para	met	ers	Crystallographic Para	met	ers
Crystal System	:	Hexagonal	Crystal System	1	Rhombohedral
Space Group		P3	Space Group	1	R-3c
Space Group Number	:	143	Space Group Number	:	167
a (Å)		5,5600	a (Å)	:	5.0347
b (Å)		5.5600	b (Å)	*	5.0347
c (Å)		22.5500	c (Å)	;	13.7473
Alpha (°)		90.0000	Alpha (°)	:	90.0000
Beta (°)		90.0000	Beta (°)	:	. 90.0000
Gamma (°)	:	120.0000	Gamma (°)	:	120.0000
Calculated density		2.63	Calculated density	:	5.27
Volume of cell		603.71	Volume of cell	:	301.78
Z	:	6.00	Z	:	6.00
RIR		2.08	RIR	:	3.27

Figure No. : 3.7.2 XRD patterns of Loha-02

Anchor Scan Parameters :		
Sample Identification	- :	654
Comment	:	Fe-RGS-4, Pyro 18/06/07
Comment	:	CuCeO2, 75,2%, 160C
Measurement Date / Time	:	6/18/2007 3:42:12 PM
Raw Data Origin	:	XRD measurement (*.XRDML)
Scan Axis	:	Gonio
Start Position [02Th]	:	5.0100
End Position [02Th]	:	39.9900
Step Size [02Th]	:	0.0200
Scan Step Time [s]	:	1.0000
Scan Type	:	Continuous
Offset [02Th]	:	0.0000
Divergence Slit Type	:	Fixed
Divergence Slit Size [0]	:	0.8709
Specimen Length [mm]	:	10.00
Receiving Slit Size [mm]		0.1000
Measurement Temperature [0C]	:	25.00

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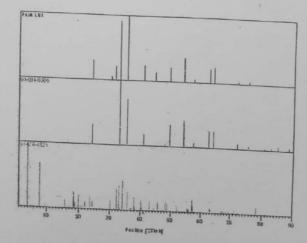
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# XRD PATTERNS OF SYNTHESIZED LOHABHASMA

Figure No.: 3.7.1 XRD patterns of Loha-01

Anchor Scan Parameters :	Loha-01
Sample Identification	
Comment	: 694
Measurement Date / Time	: Fe203 RGS R1 100108
Raw Data Origin	: 1/10/2008 1:52:08 PM
Scan Axis	: XRD measurement (*.XRDML)
	: Gonio
Start Position [°2Th]	: 10.0100
End Position [º2Th]	. 70.0000
Step Size [ ⁰ 2Th]	0.0000
Scan Step Time [s]	: 1.0000
Scan Type	: Continuõus
Offset [ ⁰ 2Th]	
Divergence Slit Type	: 0.0000
Divergence Slit Size [ ⁰ ]	: Fixed
Specimen Length [mm]	: 0.8709
Receiving Slit Size [mm]	: 10.00
Measurement Temperature [°C	: 0.1000
Anode Material	: 25.00
Generator Settings	: Cu
Goniometer Radius [mm]	: 40kV. 30mA
Dist Focus Dia	: 240.00
Dist. Focus-Diverg. Slit [mm]	: 100.00
Incident Beam Monochromator Spinning	r : No
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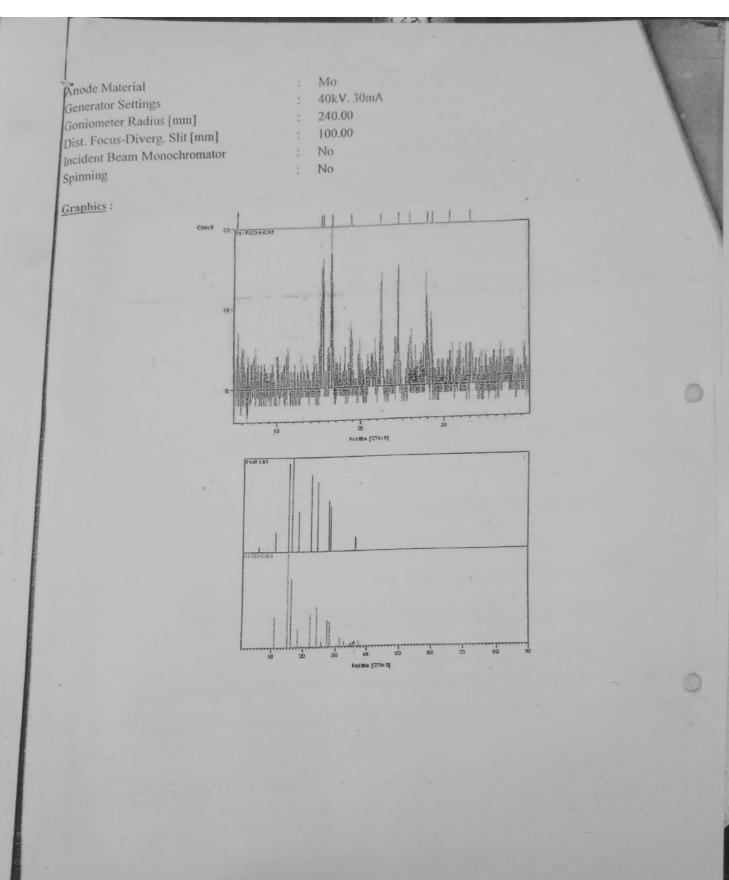
Name and Formula		
Reference Code	1	01-084-0311
ICSD Name	:	Iron Oxide
Empirical Formula	:	Fe ₂ O ₃
Chemical Formula	:	Fe ₂ O ₃
Crystallographic Para	met	ers
Crystal System	:	Rhombohedral
Space Group	:	R-3c
Space Group Number	:	167
a (Å)	:	5.0016
b (Å)	:	5.0016
c (Å)	:	13.6202
Alpha (°)	:	90.0000
Beta (°)	:	90.0000
Gamma (°)	:	120.0000
Calculated density	:	5.39
Volume of cell	;	295.07
Z	:	6.00
RIR	:	3.28

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Prof. S. S. Shewale Principal & Convener



Historiography and Methodology of Local History

ISBN : 978-1-63415-225-

#### कॅपिटॉल बाँब स्फोट खटला डॉ. भूषण गोविंद फडतरे इतिहास विभाग प्रमुख, भारतीय जैन संघटनेचे कला, विज्ञान व वाणिज्य महाविद्यालय, वाघोली, पुणे - ४१२ २०७.

#### प्रस्तावना

भारतीय स्वातंत्र्यलढयात शेवटचे परिणामकारक आंदोलन म्हणजे छोडो भारत आंदोलन हेल आंदोलनात पुणे जिल्हा अग्रेसर होता. आंदोलनाच्या प्रारंभीच नारायण दाभाडेंच्या बलिदानापासून कि महाविद्यालयातील विद्यार्थ्यांनी प्रेरणा घेऊन आंदोलनास चांगली गती दिलेली होती. आंदोलनाचे का कमी करण्यासाठी तत्कालीन पुणे जिल्हयाचे जिल्हाधिकारी मि.टी.ई. स्ट्रीटफील्ड यांना कर्ण्यासाठी काढण्याशिवाय गत्यांतर राहिले नव्हते. असे असले तरी भूमिगत लोकांनी दिलेला लढा हा म्हन्वच हा आहे. त्याचे नेतृत्व शिरूभाऊ लिमये यांनी केलेले आहे. पुण्यातील भूमिगत आंदोलनाच्या दूनि 👘 बाँबस्फ ोट व खटला, देहूरोड डेपो बाँब केस प्रकरण, काँग्रेस गुप्त रेडिओ केंद्र व महाराष्ट्र उल्ला घटना महत्वाच्या आहेत. या घटनांपैकी कॅपिटॉल बॉबस्फ ोटाने पुणे शहरच नव्हेतर महाराष्ट्रातील केल सरकारला चांगलाच हदरा बसलेला होता.

# कॅपिटॉल व वेस्टएंड चित्रपटगृहाची निवड:

ब्रिदिशांच्या दडपशाहिला धडा शिवण्यासाठी विद्यार्थ्यांनी बाँब तयार करून त्याचा वास के होता. त्याची क्षमता जरी कमी प्रमाणात असली तरी विद्यार्थ्यांनी केलेले धाडस हे भूमिगत आटेल दृष्टीने महत्त्वाचे होते.

छोडो भारत आंदोलनकाळात राष्ट्रीय गीत व झेंडावंदनाचे कार्यक्रम नित्याचेच होत होते. भाग म्हणून भूमिगत लोकांनी येथील चित्रपट गृहात राष्ट्रगीत वाजविले पाहिजे अशा अशयचे 🚃 चित्रपटगृह मालकांना पाठविली होती. काही चित्रपटगृहात शेवटी गाँड सेव द किंग्ज गीत वाजवून होता जॅक फडविला जात होता.^२ पुण्यातील अनेक चित्रपटगृह मालकांनी भूमिगत लोकांच्या पत्रकास 💳 कॅम्प मधील कॅपिटॉल, वेस्टएंड व एम्पायर या चित्रपट गृहांच्या मालकांनी 📼 🚃 पत्रकास पाठिंबा दिला नाही. त्यामुळे या चित्रपटगृहात स्फोट करण्याचे नियोजन भूमिगत लोकांनी 🚞 दिला. परंत्

कॅपिटॉल चित्रपटगृहासाठी बाबूराव चव्हाण, बापू साळवी, दत्ता जोशी तर व वेस्टएंड कि गृहासाठी स्फोट हरिभाऊ लिमये, शंकर कुलकर्णी, रामसिंग परदेशी यांची निवड करण्यात आलेली का वरील दोन्ही चित्रपट गृहात स्फोट करण्यासाठी २६ जानेवारी १९४३ हा दिवस निवडला होता. दिवशी पोलिस यंत्रणा अधिक असल्याने तत्पूर्वीच स्फोट केला पाहिजे यादृष्टीने बाबूराव चव्हाण व 🖛 साळवी हे दोघेही चित्रपट गृहाची पहाणी करून आलेले होते. २४ जानेवारी रोजी गॅरी कपूरच चित्रपट प्रदर्शित होणार होता. त्या दिवशी ब्रिटिश सैन्याची संख्या देखील जास्त असणार होती कि गृहातील पहिल्या काही खुर्च्यांचा रांगा ह्या ब्रिटिश अधिकारी व लष्करासाठी राखीव ठेवलेल्य 📻 त्यामुळे या ठिकाणी स्फोट केला तर भारतीय सैनिकांना काहीही होणार नाही. पुढे निश्चित 🚞 योजनेनुसार २४ जानेवारीच्या रात्री नऊ ते साडेनऊ वाजता कॅपिटॉलमध्ये स्फोट झाला. त्यामझे ब्रिटिश अधिकारी मृत्यू तर १२ सैनिक जखमी झाले. वेस्टएंड मधील बाँब कचरा असलेल्या बाह्य ठेवला होता. तेथे धूर निघत असल्याचे पाहून पाठीमागील रांगेत बसलेल्या विल्यम रॉबसन यांनी का तो बाँब घेऊन पाण्याच्या बादलीत टाकून निकामा केला. त्यामुळे तेथे स्फोट झाला नाही.

या दोन्ही ठिकाणच्या स्फोटासाठी देहूरोड मधील ऑर्डनन्स डेपोतील हॅंड ग्रेनेडचा वापर के नव्हता. प्ररंतु सरकारी कागदपत्रात मात्र हॅंड ग्रेनेड ३६ या प्रकारातील होता असा उल्लेख आहे. ज्या हॅडप्रेनेडचा वापर अहमदनगर मधील सरोष चित्रपटगृहात देखील झालेला होता. पुण्यात स्वतः 🚃







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### दामोदर हेरी चापेकर यांचे न्यायालयातील अप्रकाशित पन

डॉ.भूषण गोविंद फडतरे, इतिहास विभाग प्रमुख, भारतीय जैन संघटनेचे कला,विज्ञान व वाणिज्य महाविद्यालय, वाघोली, पुणे.

१९ व्या शतकाच्या उत्तरार्धात क्रांतीकारी चळवळीतील महत्वाची घटना महणजे चापेकरबंधूनी केलेला मि.रॅंडचा वध, पुण्यातील रेल्वे स्टेशनचा परिसर, रविवार पेठ, भाजी आळी, लोणार आळी, कसबा पेठ व शुक्रवार पेठ इत्यादी परिसरात प्लेगची साथ वेगाने पसरली होती. ही साथ ओटोक्यात आणण्यासाठी माताऱ्यातील उपजिल्हाधिकारी डब्ल्यू.सी.रॅंडची नेमणूक केली, मि.रॅंडने लष्कराच्या मदतीने प्लेगची साथ आटोक्यात आणण्यासाठी प्रयत्न सुरू केले. भारत मंत्री लॉर्ड जॉर्ज हॅमिल्टनने आदेश काढला की, 'साध्या उपायांनी जनता ऐकत नसेल आणि मारकारी उपाय योजनांना दाद देत नसेल तर आता जबरदस्ती करा, पण रोग आटोक्यात आणा.'' अनेकांना मारहाण तर केलीच पण महिलांशीही गैरवर्तन केलेली होती हे वृत्त पुढे पंडिता रमाबाईंनीच ज्ञानप्रकाशमध्ये व्यक्त केलेले होते.

'पुण्यात सध्या चालू असलेला धुमाकूळ' असा अग्रलेख लोकमान्य टिळकांनी समीत लिहिला. या अग्रलेखात ते नमूद करतात की, ''साथीच्या रोगांमुळे यंदा प्रणास शिमगा आठ दहा दिवस आधीच सुरू झाला आहे. ''१२ जून १८९७ पुण्यातील लकडी पुलाजवळील विठ्ठल मंदिरात लोकमान्य टिळकांच्या प्रण्यातील तकडी पुलाजवळील विठ्ठल मंदिरात लोकमान्य टिळकांच्या प्रण्यातील तर प्रा.श्रीधर गणेश जिन्सीवाले यांचे 'स्वदेश व स्वधर्म' या प्रण्यातर भाषण केले तर दुसऱ्या दिवशी प्रा. चिंतामण गंगाधर भानू यांनी प्राण्यावर भाषण केले तर दुसऱ्या दिवशी प्रा. चिंतामण गंगाधर भानू यांनी प्राण्यावराच्या वधाविषयी भाषण केले. ही तिन्ही भाषणे पुण्यातील प्राण्याताच्या देणारी ठरली. सभेच्या अध्यक्षस्थानी असलेल्या टिळकांनी

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शस्त्र हाती घेऊन राज्य उलथून पाडण्याचा प्रयत्न करणारे वासुदेव बळवंत फ डके हे आद्य क्रांतीकारक म्हणून ओळखले जातात ते पुढील काळात चाफे कर बंधू, स्वातंत्र्यवीर सावरकर यांच्या सारख्या क्रांतीकारी देशभक्तांचे स्फुर्तीस्थान बनले फडक्यचांच्या लढतीने भारुन गेलेल्या बंकीमचंद्र चट्टोपाध्याय सारख्या अव्वल दर्जाच्या प्रतिभावंताने फ डक्यांच्या बंडापासून प्रेरणा घेऊन आनंदमठ कांदबरी लिहली. बंकीमचंद्र १८७९ मध्ये इंग्रज सरकारची नोकरी करत होते. उघड उघड फडक्यचांच्या बंडा संबंधी गौरवपर लिहीणे त्यांना शक्य नव्हते म्हणुन १७६८ ते १७६९ सालातल्या दुष्काळाच्या पार्श्वभूमीवर बंगालमध्ये सन्यासांनी केलेल्या बंडाचा विषय त्यांनी निवडला पण आनंद मठ लिहतांना बंकीमबाबु समोर होते वासुदेव बळवंताचे बंड.

वासुदेव बळवंताच्या आधी इंग्रज राजवटीला सशस्त्र प्रतिकार इतर प्रांताप्रमाणे महाराष्ट्रातही झाला होता पण इंग्रजी विद्या घेतलेल्या इंग्रज सरकारची नोकरी करत असलेल्या तरुणांने इंग्रजाचे राज्य बुडविण्याचा केलेला प्रयत्न अभुतपुर्व होता इंग्रज राजवटी विरुध्द इंग्रजी विद्या घेतलेल्यांच्या मनात असंतोष घुमसत होता या असंतोषाला वाट करून देऊन राज्यकर्ते व प्रजाजन यांच्यामध्ये एखादा दुवा असण्याची गरज ॲल्यट्युम व्ह्युम या निवृत्त सनदी अधिकाऱ्याला वाटत होती, लोकांच्या मनातील दु:ख, भय आशा, आकांक्षा जेथे बोलवून दाखवता येतील असे एखादी व्यासपीठ नसेल तर असंतुष्ट माणसे शस्त्र हाती घेऊन १८५७ च्या उठावाच्या वेळी जशी इंग्रज राजवटी विरुध्द लढली तशी पुन्हा निकराने लढतील अशी व्ह्युम साहेबांना तीव्रतेने वाटू लागले, असे त्यांचे चरित्रकार विल्यम एडबर्न यांनी वासुदेव बळवंत फडक्यांच्या बंडाचा निःसंदिग्ध उल्लेख करून व्ह्युम साहेबांनी कांग्रेसची स्थापना करण्याचे कसे नेटाने प्रयत्न केले आहे हे स्पष्ट केले.

#### सारांश -

महाराष्ट्रातील आद्य क्रांतीकारक वासुदेव बळवंत फडके यांनी भारतीय स्वातंत्र आंदोलनातील सशस्त्र क्रांतीकारी गटाला एक महत्वपुर्ण प्रेरणा देवून स्वतंत्र आंदोलनातील क्रांतीकारी गट आपल्या जीवची पर्वा न करता ब्रिटीश साम्राज्य विरोधात शक्तीचा वापर करण्यास तयार झाला.

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साहित्य, कला, संशोधन च परिवर्तनवादी पुरोगामी विचाराशी बांधिलकी ठेवणारे त्रैमासिक







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प्रकाशक

अर्चना माधवराव जाधव बळीवंश प्रकाशन, 'बळीवंश', नृसिंह पॅलेसच्या मागे, नरहरनगर, नांदेड – ४३१ ६०५.

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#### मुखपृष्ठ, अक्षरमांडणी च सजावट विजयकुमार चित्तरवाड ९४२१९८७८०९

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महाराष्ट्र राज्य साहित्य आणि संस्कृती मंडळाने या नियतकालिकाच्या प्रकाशनार्थ अनुदान दिले असले तरी, या नियतकालिकातील लेखकांच्या विचारांशी मंडळ व शासन सहमत असेलच असे नाही.

म रा ठी भाषा भ्या स क्रम वि शेषां क

# अनुक्रम

	विभाग : एक मराठीचा अभ्यासक्रम : काही विचार विद्यापीठीय अभ्यासक्रम : वास्तव आणि अपेक्षा (मुलाखत) एम.ए. मराठीचा अभ्यासक्रम विद्यापीठीय अभ्यासक्रम विद्यापीठीय अभ्यासक्रमातील सुसूत्रता शिक्षणव्यवस्थेचे समकालीन वास्तव व सं. गा. बा. अमरावती विद्यापीठातील पदव्युत्तर मराठीचा अभ्यासक्रम उच्चशिक्षणातील मराठीचे अभ्यासक्रम (मराठी) भाषेचे अभ्यासक्रमः पदवी स्तर शिक्षणव्यवस्था : समकालीन वास्तव उच्च शिक्षणातील मराठी भाषेचा अभ्यासक्रमः	वसंत आबाजी डहाके 0३ उत्तम कांबळे
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#### कॅपिटॉल बाँब स्फोट खटला डॉ. भूषण गोविंद फडतरे इतिहास विभाग प्रमुख, भारतीय जैन संघटनेचे कला, विज्ञान व वाणिज्य महाविद्यालय, वाघोली, पुणे - ४१२ २०७.

#### प्रस्तावना

भारतीय स्वातंत्र्यलढयात शेवटचे परिणामकारक आंदोलन म्हणजे छोडो भारत आंदोलन हेल आंदोलनात पुणे जिल्हा अग्रेसर होता. आंदोलनाच्या प्रारंभीच नारायण दाभाडेंच्या बलिदानापासून कि महाविद्यालयातील विद्यार्थ्यांनी प्रेरणा घेऊन आंदोलनास चांगली गती दिलेली होती. आंदोलनाचे का कमी करण्यासाठी तत्कालीन पुणे जिल्हयाचे जिल्हाधिकारी मि.टी.ई. स्ट्रीटफील्ड यांना कर्ण्यासाठी काढण्याशिवाय गत्यांतर राहिले नव्हते. असे असले तरी भूमिगत लोकांनी दिलेला लढा हा म्हन्वच हा आहे. त्याचे नेतृत्व शिरूभाऊ लिमये यांनी केलेले आहे. पुण्यातील भूमिगत आंदोलनाच्या दूनि 👘 बाँबस्फ ोट व खटला, देहूरोड डेपो बाँब केस प्रकरण, काँग्रेस गुप्त रेडिओ केंद्र व महाराष्ट्र उल्ला घटना महत्वाच्या आहेत. या घटनांपैकी कॅपिटॉल बॉबस्फ ोटाने पुणे शहरच नव्हेतर महाराष्ट्रातील केल सरकारला चांगलाच हदरा बसलेला होता.

# कॅपिटॉल व वेस्टएंड चित्रपटगृहाची निवड:

ब्रिदिशांच्या दडपशाहिला धडा शिवण्यासाठी विद्यार्थ्यांनी बाँब तयार करून त्याचा वास के होता. त्याची क्षमता जरी कमी प्रमाणात असली तरी विद्यार्थ्यांनी केलेले धाडस हे भूमिगत आटेल दृष्टीने महत्त्वाचे होते.

छोडो भारत आंदोलनकाळात राष्ट्रीय गीत व झेंडावंदनाचे कार्यक्रम नित्याचेच होत होते. भाग म्हणून भूमिगत लोकांनी येथील चित्रपट गृहात राष्ट्रगीत वाजविले पाहिजे अशा अशयचे 🚃 चित्रपटगृह मालकांना पाठविली होती. काही चित्रपटगृहात शेवटी गाँड सेव द किंग्ज गीत वाजवून होता जॅक फडविला जात होता.^२ पुण्यातील अनेक चित्रपटगृह मालकांनी भूमिगत लोकांच्या पत्रकास 💳 कॅम्प मधील कॅपिटॉल, वेस्टएंड व एम्पायर या चित्रपट गृहांच्या मालकांनी 📼 🚃 पत्रकास पाठिंबा दिला नाही. त्यामुळे या चित्रपटगृहात स्फोट करण्याचे नियोजन भूमिगत लोकांनी 🚞 दिला. परंत्

कॅपिटॉल चित्रपटगृहासाठी बाबूराव चव्हाण, बापू साळवी, दत्ता जोशी तर व वेस्टएंड कि गृहासाठी स्फोट हरिभाऊ लिमये, शंकर कुलकर्णी, रामसिंग परदेशी यांची निवड करण्यात आलेली का वरील दोन्ही चित्रपट गृहात स्फोट करण्यासाठी २६ जानेवारी १९४३ हा दिवस निवडला होता. दिवशी पोलिस यंत्रणा अधिक असल्याने तत्पूर्वीच स्फोट केला पाहिजे यादृष्टीने बाबूराव चव्हाण व 🖛 साळवी हे दोघेही चित्रपट गृहाची पहाणी करून आलेले होते. २४ जानेवारी रोजी गॅरी कपूरच चित्रपट प्रदर्शित होणार होता. त्या दिवशी ब्रिटिश सैन्याची संख्या देखील जास्त असणार होती कि गृहातील पहिल्या काही खुर्च्यांचा रांगा ह्या ब्रिटिश अधिकारी व लष्करासाठी राखीव ठेवलेल्य 📻 त्यामुळे या ठिकाणी स्फोट केला तर भारतीय सैनिकांना काहीही होणार नाही. पुढे निश्चित 🚞 योजनेनुसार २४ जानेवारीच्या रात्री नऊ ते साडेनऊ वाजता कॅपिटॉलमध्ये स्फोट झाला. त्यामझे ब्रिटिश अधिकारी मृत्यू तर १२ सैनिक जखमी झाले. वेस्टएंड मधील बाँब कचरा असलेल्या बाह्य ठेवला होता. तेथे धूर निघत असल्याचे पाहून पाठीमागील रांगेत बसलेल्या विल्यम रॉबसन यांनी का तो बाँब घेऊन पाण्याच्या बादलीत टाकून निकामा केला. त्यामुळे तेथे स्फोट झाला नाही.

या दोन्ही ठिकाणच्या स्फोटासाठी देहूरोड मधील ऑर्डनन्स डेपोतील हॅंड ग्रेनेडचा वापर के नव्हता. प्ररंतु सरकारी कागदपत्रात मात्र हॅंड ग्रेनेड ३६ या प्रकारातील होता असा उल्लेख आहे. ज्या हॅडप्रेनेडचा वापर अहमदनगर मधील सरोष चित्रपटगृहात देखील झालेला होता. पुण्यात स्वतः 🚃







## NATIONAL CONFERENCE on "Historiography and Methodology of Local History" 29th & 30th September, 2014 Sponsored by U. G. C. New Delhi

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### दामोदर हेरी चापेकर यांचे न्यायालयातील अप्रकाशित पन

डॉ.भूषण गोविंद फडतरे, इतिहास विभाग प्रमुख, भारतीय जैन संघटनेचे कला,विज्ञान व वाणिज्य महाविद्यालय, वाघोली, पुणे.

१९ व्या शतकाच्या उत्तरार्धात क्रांतीकारी चळवळीतील महत्वाची घटना महणजे चापेकरबंधूनी केलेला मि.रॅंडचा वध, पुण्यातील रेल्वे स्टेशनचा परिसर, रविवार पेठ, भाजी आळी, लोणार आळी, कसबा पेठ व शुक्रवार पेठ इत्यादी परिसरात प्लेगची साथ वेगाने पसरली होती. ही साथ ओटोक्यात आणण्यासाठी माताऱ्यातील उपजिल्हाधिकारी डब्ल्यू.सी.रॅंडची नेमणूक केली, मि.रॅंडने लष्कराच्या मदतीने प्लेगची साथ आटोक्यात आणण्यासाठी प्रयत्न सुरू केले. भारत मंत्री लॉर्ड जॉर्ज हॅमिल्टनने आदेश काढला की, 'साध्या उपायांनी जनता ऐकत नसेल आणि मारकारी उपाय योजनांना दाद देत नसेल तर आता जबरदस्ती करा, पण रोग आटोक्यात आणा.'' अनेकांना मारहाण तर केलीच पण महिलांशीही गैरवर्तन केलेली होती हे वृत्त पुढे पंडिता रमाबाईंनीच ज्ञानप्रकाशमध्ये व्यक्त केलेले होते.

'पुण्यात सध्या चालू असलेला धुमाकूळ' असा अग्रलेख लोकमान्य टिळकांनी समीत लिहिला. या अग्रलेखात ते नमूद करतात की, ''साथीच्या रोगांमुळे यंदा प्रणास शिमगा आठ दहा दिवस आधीच सुरू झाला आहे. ''१२ जून १८९७ पुण्यातील लकडी पुलाजवळील विठ्ठल मंदिरात लोकमान्य टिळकांच्या प्रण्यातील तकडी पुलाजवळील विठ्ठल मंदिरात लोकमान्य टिळकांच्या प्रण्यातील तर प्रा.श्रीधर गणेश जिन्सीवाले यांचे 'स्वदेश व स्वधर्म' या प्रण्यातर भाषण केले तर दुसऱ्या दिवशी प्रा. चिंतामण गंगाधर भानू यांनी प्राण्यावर भाषण केले तर दुसऱ्या दिवशी प्रा. चिंतामण गंगाधर भानू यांनी प्राण्यावराच्या वधाविषयी भाषण केले. ही तिन्ही भाषणे पुण्यातील प्राण्याताचा वध हा छत्रपती शिवाजी महाराजांनी केला, तो न्याय्यच

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शस्त्र हाती घेऊन राज्य उलथून पाडण्याचा प्रयत्न करणारे वासुदेव बळवंत फडके हे आद्य क्रांतीकारक म्हणून ओळखले जातात ते पुढील काळात चाफे कर बंधू, स्वातंत्र्यवीर सावरकर यांच्या सारख्या क्रांतीकारी देशभक्तांचे स्फुर्तीस्थान बनले फडक्यचांच्या लढतीने भारुन गेलेल्या बंकीमचंद्र चट्टोपाध्याय सारख्या अव्वल दर्जाच्या प्रतिभावंताने फडक्यांच्या बंडापासून प्रेरणा घेऊन आनंदमठ कांदबरी लिहली. बंकीमचंद्र १८७९ मध्ये इंग्रज सरकारची नोकरी करत होते. उघड उघड फडक्यचांच्या बंडा संबंधी गौरवपर लिहीणे त्यांना शक्य नव्हते म्हणुन १७६८ ते १७६९ सालातल्या दुष्काळाच्या पार्श्वभूमीवर बंगालमध्ये सन्यासांनी केलेल्या बंडाचा विषय त्यांनी निवडला पण आनंद मठ लिहतांना बंकीमबाबु समोर होते वासुदेव बळवंताचे बंड.

वासुदेव बळवंताच्या आधी इंग्रज राजवटीला सशस्त्र प्रतिकार इतर प्रांताप्रमाणे महाराष्ट्रातही झाला होता पण इंग्रजी विद्या घेतलेल्या इंग्रज सरकारची नोकरी करत असलेल्या तरुणांने इंग्रजाचे राज्य बुडविण्याचा केलेला प्रयत्न अभुतपुर्व होता इंग्रज राजवटी विरुध्द इंग्रजी विद्या घेतलेल्यांच्या मनात असंतोष घुमसत होता या असंतोषाला वाट करून देऊन राज्यकर्ते व प्रजाजन यांच्यामध्ये एखादा दुवा असण्याची गरज ॲल्यट्युम व्ह्युम या निवृत्त सनदी अधिकाऱ्याला वाटत होती, लोकांच्या मनातील दु:ख, भय आशा, आकांक्षा जेथे बोलवून दाखवता येतील असे एखादी व्यासपीठ नसेल तर असंतुष्ट माणसे शस्त्र हाती घेऊन १८५७ च्या उठावाच्या वेळी जशी इंग्रज राजवटी विरुध्द लढली तशी पुन्हा निकराने लढतील अशी व्ह्युम साहेबांना तीव्रतेने वाटू लागले, असे त्यांचे चरित्रकार विल्यम एडबर्न यांनी वासुदेव बळवंत फडक्यांच्या बंडाचा निःसंदिग्ध उल्लेख करून व्ह्युम साहेबांनी कांग्रेसची स्थापना करण्याचे कसे नेटाने प्रयत्न केले आहे हे स्पष्ट केले.

#### सारांश -

महाराष्ट्रातील आद्य क्रांतीकारक वासुदेव बळवंत फडके यांनी भारतीय स्वातंत्र आंदोलनातील सशस्त्र क्रांतीकारी गटाला एक महत्वपुर्ण प्रेरणा देवून स्वतंत्र आंदोलनातील क्रांतीकारी गट आपल्या जीवची पर्वा न करता ब्रिटीश साम्राज्य विरोधात शक्तीचा वापर करण्यास तयार झाला.

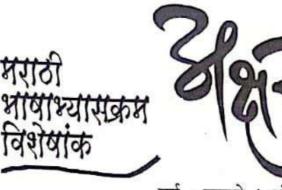
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मराठ

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प्रकाशक

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महाराष्ट्र राज्य साहित्य आणि संस्कृती मंडळाने या नियतकालिकाच्या प्रकाशनार्थ अनुदान दिले असले तरी, या नियतकालिकातील लेखकांच्या विचारांशी मंडळ व शासन सहमत असेलच असे नाही.

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# अनुक्रम

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