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INTERNATIONAL JOURNAL OF CREATIVE RESEARCH THOUGHTS (IJCRT)

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"Comparative study of various Organic Manures on Growth of Spinach"

Prakash N. Gholap

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Introduction:

Nutrients in the soils is necessary to maintain the good quality of soil results as higher crop productivity. To derive maximum benefit, the weed manures should be applied during land preparation and incorporated into the soil having adequate moisture about 2 to 3 weeks before sowing so that nutrients are made available to the plants.

Chemical fertilizers are relatively inexpensive, have high nutrient contents, and are rapidly taken up by plants. However, the use of excess fertilizer can result in a number of problems, such as nutrient loss, surface water and groundwater contamination, soil acidification or basification, reductions in useful microbial communities, and increased sensitivity to harmful insects (Chen 2006).

The decline in productivity has been associated with the onset of deficiencies of nutrients. Integrated use of weed manures has been found to be promising riot only in maintaining higher productivity.

Organic manure gives their multiple benefits due to the balanced supply of nutrients as well as increased soil nutrient availability due to increased soil microbial activity, decomposes harmful elements and fillup soils with micronutrients and increased soil water availability, soil texture and structure improvement helps roots and shoots development.

Materials and methods:

<u>Field site and experimental design</u> - The experiment was conducted in the Botanical garden of Dr. Babasaheb Ambedkar Marathwada University's Research farm, Aurangabad. The experimental design was a randomized block design [RBD] with fourteen treatments and three replications of compost, green and dry powder manures, compared with chemical fertilizer along with the control.

Treatments, composting process and pots size - The weeds were collected (uprooted at 10% flowering stage) from roadsides and fields near University campus. They were cut into small pieces as 4"-6" (10-15cm) with the help of traditional iron cutter and buried directly in green manure pots, 745gm/pots of size 29cm x 29cm x 14.5cm i.e. at the rate of 112800 kg/ha. The same amount of vegetation was kept for Natural drying under semi-shade condition for dry powder manure was determined by gravimetric method, and other same amount of vegetation was used for the preparation of compost, using Heap compost pit method (10 lit. water + 50gm Jaggery + 1kg cow dung + 1 lit. Cow's urine mixed well before spreading on every layer then polythene sheets covered on Heap compost pit) After 78 days the well fermented compost manure and dry plant powder manure was also incorporated in the pots of surface area 660.6 sq.cm. of size 29cm x 29cm x 14.5cm pots. The spinach seeds variety "All Green" produced by Sungro seeds limited, 207 Aradhana Bhawan, Azadpur, and Delhi 110033 was sown 2gm/ pot i.e. at the seed rate 30 kg/ha, frequent irrigations were given as per requirement. In a course of time regrowths were studied (recut).

<u>Plant sampling</u> - The green foliage was harvested during the early hours of the day at vegetative stage [35 and 72 DAS]. The vegetable yield obtained per pots was recorded on the field itself [3] and samples from each pots [100 gm] were immediately collected. chl.a, chl.b, total chl. [1] & leaf area from each regrowth was recorded and was kept in oven for further analysis.

Results and Discussion:

Estimation of the total leaf chlorophyll, leaf chlorophyll 'a' and 'b' was done using Amon method (1949) at the age of 35 and 72 days were estimated by using 80 % acetone as a solvent for extraction of pigments [1].

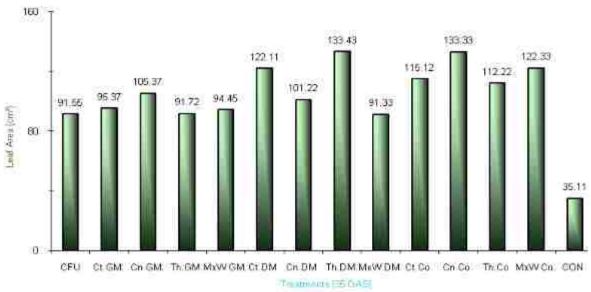
- Fig.1. Shows the morph-physiological traits of the spinach crop were noted at the age of 35 das, leaf area per plant was highest in the plot treated with *Tephrocia hamiltonni* dry manure followed by *Crotolaria notonni* compost manure and lowest in control followed by Mixed Weed Dry Manure was determined by gravimetric method [6].
- Fig.2. Shows the effect of legume weed manures on green leafy vegetable spinach at the age of 35 das, total chlorophyll was maximum in the plot treated with *Tephrosia* compost and then in the *Crotolaria notonii* compost manure followed by *Tephrosia hamiltonni* dry manure.
- Fig.3 Shows Spinach contain good quantity vitamin 'C'. It was estimated after 35 days. Highest amount of vitamin 'C' was found on the plot treated with compost manure of Crotolaria notonii as 3.95mg/100gm, then dry manure of Cassia tora as 3.29mg/100gm and then followed by Tephrosia hamiltonni green manure as 3.21mg/100gm and it was lowest on control as 2.42mg/100gm. β-Carotene content was maximum in the compost of Crotolaria notonii as 3.92mg/100gm and lowest in the control as 1.98mg/100gm. Estimation of β-carotene and vitamin Cmg/100gm nutrient contents determined by using standard agronomic procedures [4].
- Table, I. Shows the effect of legume weed manures on green leafy vegetable spinach at the age of 72 days. Estimation of chl.a, chl.b, and total chlorophyll in mg/gm was calculated. Total chlorophyll was maximum in the plot treated with dry manure of Cassia tora as 0.82mg/gm and then in the green manure of Cassia tora as 0.80mg/gm, the plant shows highest leaf area on Tephrosia hamiltonni dry manure as 138.02cm² followed by Crotolaria notonii compost manure as 136.46cm² then mixed weed compost manure and dry manure of Cassia tora as 127.08cm², and the lowest leaf area found on Control 38.54cm² [5].

Conclusion: On the basis of result obtained, it can be concluded that all the treatments of organic manure worked well should be considered as an alternative to chemical fertilizers.

Abbreviations: Chl.-chlorophyll, Cn.Co.-Crotolaria notonni compost manure, Cn.DM.-Crotolaria notonni dry manure, Cn.GM.-Crotolaria notonni green manure, CFU.-chemical fertilizer urea CON..-control, Ct.Co.-Cassia tora compost manure, Ct.DM.-Cassia tora dry manure, Ct.GM.-Cassia tora green manure, DAS-Days after sowing, ha.-hectare, kg.-Kilogram, Kg/ha-Kilogram per hectare, MxW.Co.-mixed weed compost manure, MxW.DM.-Mixed weed dry Manure, MxW.GM.-Mixed weed green manure, S.E.-Standard error, Th.Co.-Tephrocia hamiltonni compost manure, Th.DM.-Tephrocia hamiltonni Dry Manure, Th.GM.-Tephrocia hamiltonni green manure, wt.-weight.

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Eig 1: LEAF AREA OF SPINACH PLANT LEAVES ON DEFFERENT WEED MANURE.

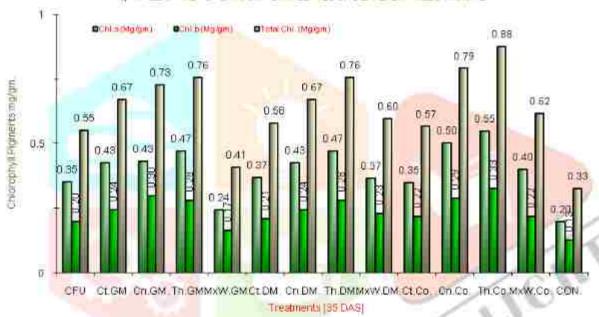


FIG. 2 - ESTIMATION OF CHLY, CHLD, & TOTAL CHL FROM SPINACH VEGETATION

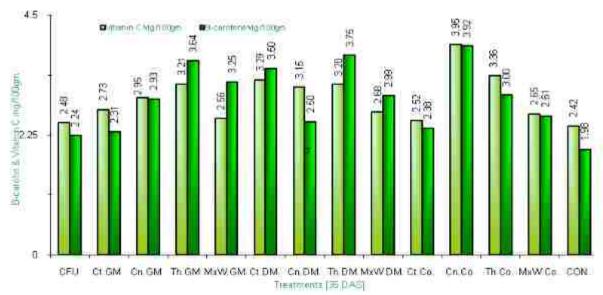


Fig. 3: ESTIMATION OF Vitamin C Ing/100 unit 8 (8-C antitable FROM SSINACH LEAF VEGETATION

Table :-I: Estimation of 'chl.a', 'chl.b', 'total chl.' & leaf area of spinach vegetation cultivated on diff. weed manure [72 DAS].

Treatments		Leaf Area			
	Chl.a	Chl.b	Total Chl.	(c.m².)	
1) CFU	0.46	0.25	0.71	93.75	
2} Ct.GM.	0.51	0.29	0.80	97.40	
3} Cn.GM.	0.41	0.23	0.64	109.38	
4} Th.GM.	0.42	0.25	0.66	95.83	
5} MxW.GM.	0.39	0.24	0.63	96.88	
6} Ct.DM.	0.51	0.30	0.82	127.08	
7} Cn.DM.	0.38	0.23	0.60	102.60	
8) Th.DM.	0.44	0.27	0.72	138.02	
9} MxW.DM.	0.33	0.19	0.52	95.83	
10} Ct.Co.	0.42	0.23	0.65	104.17	
11} Cn.Co.	0.46	0.27	0.73	136.46	
12} Th.Co.	0.50	0.29	0.79	116.67	
13} MxW.Co.	0.37	0.21	0.58	127.08	
14} CON.	0.22	0.15	0.38	38.54	
S.E. =	0.025	0.024	0.042	11	
C.D. =	0.052	- f		12.50	

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"Effect of Various Dry Powder Organic Manure on Sugarcane Crop"

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Introduction:

Sugarcane (Saccharum officinarum) is a member of Poaceae/ Gramineae family, is a perennial grass, which grows well in plenty of sunlight, high temperatures, good drainage, fertile soils and requires large quantities of water (1500 mm of rain per year/ grown with irrigation).

Wastes, weeds and tree leaves are no more wastes but a valuable resource and free of cost current strategy centers around their disposal and eradication only. Economic utilization of these bioresources through green manure, dry manure, compost and vermicompost production can help not only in meeting the challenge of energy crisis but also keeping environment pollution free.

Excessive and imbalanced use of chemical fertilizers has adversely affected the soil, causing decreasing the structure and water holding capacity, reduction in organic carbon and microbial flora of soil results as increasing acidity and alkalinity and harding of soil, to solve this organic manure plays an important role, they are complementary to the chemical fertilizers and many times they have the capacity to replace them

[5].

The quantity of soil organic matter depends on the quantity of organic material which can be introduced into the soil either by natural returns through roots, stubbles, sloughed-off root nodules and root exudates or by artificial application in the form of organic manure which can otherwise be called organic fertilizer [1].

Materials and methods:

<u>Field site and experimental design</u> - The experiment was conducted on the farm located at Khandepargaon, V-P High-tech Research farm, Dist. Beed. The experiment design was a randomized block design [RBD] with seven treatments and four replicates. Treatments, dry powder manures process and plot size - Tree leaf dry manures like <u>Azadirachta indica</u> dry powder organic manure (Azi.DM.); <u>Gliricidia sepium</u> dry powder organic manure (Gs.DM.); Non-leguminous weeds plants dry powder organic manure like <u>Achyranthes aspera</u> dry powder organic manure (A.DM.); <u>Parthenium hysterophorus</u> dry powder organic manure (P.DM.); Neem seed cake (N.C.); compared with chemical fertilizers like Nitrogen+Phosphorus+Potassium (NPK); along with Control (CON);

Then aerial biomass of trees leaves and Non leguminous weed plants were cut into small pieces as 1-2 inches by the traditional iron cutter at 10 % flowering stage in morning time then dried under semi-shade sunlight. They were used for preparing dry powder organic manure. After 26 days naturally well dried 12 5kg i.e. at the rate of 13889kg ha dry powder organic manure/ fertilizer inserted in their randomly selected treatment plots, 100gm of sample from each dry powdered organic manure collected and kept in oven at 105° for drying, after drying the samples were used for the further analysis [4].

The field was irrigated as per requirement, and dry powder organic manure/ fertilizer were allowed to decompose for 76 days then the sugarcane was cultivated on 3 x 3m plots of size 3m x 3m i.e. 09sqm., keeping 45 cm distances in rows.

Plant sampling - The crop was harvested early in the morning and the fresh yield of the aerial part of the crop was noted and calculated as kg/ha. Three kg sample of fresh vegetation was cut into small pieces as 1-2 inches by the traditional iron cutter, in which 100gm was dried in oven at 90°C till it gives constant weight for the determination of dry matter (DM), this dried sample was grinded to fine powder and used for further analysis, [2].

Results and Discussion:

Fig.1. Shows the highest yield of Sugarcane fresh vegetation was on the treatment <u>A.aspera</u> dry powder organic manure followed by on Neem cake manure then on <u>A.indica</u> dry powder organic manure followed by the treatment of <u>G.sepium</u> dry powder organic manure and the lowest yield of Sugarcane fresh vegetation kg/ha on Control followed by on <u>P.hysterophorus</u> dry powder organic manure then on the treatment of chemical fertilizers NPK.

Table 1. Effect of dry powder organic manure on Sugarcane crop analyses of total plant shows the highest dry matter analyses C:N ratio was in the plot treated with <u>P.hysterophorus</u> dry powder organic manure then on <u>A.aspera</u> dry powder organic manure followed by Neem seed cake treatment then in the plot treated with <u>A.indica</u> dry powder organic manure, the minimum C:N ratio was observed on the treatment Control then followed by <u>G.sepium</u> dry powder organic manure then on the treatment of chemical fertilizers NPK [3].

Conclusion:

On the basis of result obtained, it can be concluded that all organic manure plays an important role, they are complementary to the chemical fertilizers and many times they have the capacity to replace them.

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Fig. 1: Fresh Weight S.E = 11953, CD = 25102 and Dry Matter SE = 5045, CD = 10595 (Kg/ha)

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Transference	F and In face		%		C/N Ra.
Treatments.	F.wt./plot	D.M.	C.	N.	- Cin Ka
1} A.DM.	364.0	30.5	8.17	2.17	3.77
2) Gs DM	211.3	30.6	7.98	2.83	2.82
3} NPK	209.3	30.6	7.08	2.42	2.93
4) Azi DM.	220.5	27.9	8.67	2.92	2.97
5) N.C.	308.3	27.8	7.82	2.33	3.35
6) P.DM.	152.5	24.3	8.35	2.08	4.01
7) CON.	80.0	31.2	5.22	1,92	2.72
S.E =	10.76	1.53	0.0009	0.21	0.005
C.D. =	22.59	3.21	0.0018	0.44	0.011

Table 1 : Effect of Dry Powder Organic Manure on Sugarcane Crop Analyses of Total Plant.

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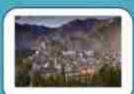




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Effect of weed bio resources on Growth Development of Cash Crop Sugarcane Prakash N. Ghalap

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Tal. Shirur (Ka.), Dist. Beed: 413-249. (M.S.), affiliated: Dr. BAMU, AURANGABAD. INDIA.
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Abstract :

For sustainable suggressive production weeds are a major streat, causing yield lists. Weeds are available in plenty and in most cases free of cost and in large amounts, weeds are no more master but a valuable resource. Economic utilization of these bioresources through dry possible master, green master and compast manure production can help not only in moving the challenge of energy critis but also keeping onstronment pollution free.

The prices of chemical fertilizers are increasing day by day resulting in an increase in the cost of inputs in agriculture. Biofertilizers are chief source of natrients and can be used as supplement for chimical fertilizers.

Sugaryane (Soccharum officinarum) is a member of Poucouse' Gramineae family, is a perennial grass, the experiment was conducted on the form located at Khandepstegaum, V-P High-tech Research fams, Dist. Birel. The experiment design was a conducted blick design [RBD] with seven treatments and four replicates i.e. leafy twee also manuves like Agardina to indica dry leaf powder organic manuve (A;I)M is Gibricidio septum dry leaf powder organic manuve (A;I)M, Non-legaminum weeds plants dry manuve like Ackyranihes aspera dry powder organic manuve (A;I)M. Parthusium hymmephorus dry powder organic manuve (A;I)M. Parthusium hymmephorus dry powder organic manuve (A;I)M. Parthusium fixed chemical fertilizers like Nitrogen-Phosphorus Poussium (NPK): along with Control (CON).

The morph-physiological traits of the crop were moted at 222 & 256 DAS as plant beight, diameter, number of leaves per plant, total weight, 4th upper leaf length, width, weight and leaf area per plant was determined by gravinatric method.

Results shows growth analyses of Sigurcane plant fresh regenation—was highest in neurabour all purameters in the plot treated with Assipera dry powder organic manure followed by plot treated with Noots seed cake organic manure and the lowest in the treatment of Control followed by Physterophorus dry powder organic manure then followed by the treatment of chemical fertilizers NPK.

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Keywords: secode organic manute

Introduction:

Sugarcane (Succharum officinarum) is a member of Poaceae Gramineae family, is a perennial grass, for sustainable sugarcane production wends are a major threat, causing yield loss, weeds are available in plenty and in most cases free of cost and in large amounts, weeds are no more waster but a valuable resource. Economic ntilization of those bioresources through dry powder manure, green manure and compost manure production can help not only in meeting the challenge of energy crisis but also keeping environment pollution free.

The prices of chemical fertilizers are increasing day by day resulting in an increase in the cost of inputs in agriculture. Biofertilizers are chief source of nutrients and can be used as supplement for chemical fertilizers.

Excessive and imbalanced use of chemical fertilizers has adversely affected the soil, causing decreasing the structure and water holding capacity, reduction in organic carbon and microbial flora of soil results as increasing acidity and alkalinity and harding of soil, in solve this organic manner plays an important role, they are complementary to the chemical fertilizers and many times they have the capacity to replace them [4].

Materials and methods:

Field site and experimental design - The experiment was conducted on the farm located at Khandepurgator, V.P. High-tuch Research farm, Dio. Beed, The experiment design was a randomized block design (RBD) with seven treatments and four replicates.

Treatments, dry powder manures process and plot size - Two leaf dry manures like Apadinachus indica dry leaf powder organic manure (Axi DM.); Gliricidia sepiam dry leaf powder organic manure (Gs.DM.); Non-leguminous weeds plants dry powder organic manure like Achyroniles aspect dry powder organic

Januari of Research & Development A Mutalia iglimery busynational Level Referred and Poor Recipood Januari, Impure Factor 2 261, 1889–2230–8876. Date 2021. Vidual 41, Asper 15.

manure (A.DM.); Purthenium hysterophorus dry powder organic manure (P.DM.); Neem seed cake organic manure (N.C.); compared with chemical fertilizers like Nitrogen+Phosphorus+Potassium (NPK); along with Control (CON);

Then aerial biomass of trees leaves and Non leguminous weed plants were cut into small pieces as 1-2 inches by the traditional iron cutter at 10 % flowering stage in morning time then dried under semi-shade sunlight. They were used for preparing dry powder organic manure. After 26 days naturally well dried 12.5kg i.e. at the rate of 13889kg ha dry powder organic manure/ fertilizer inserted in their randomly selected treatment plots, 100gm of sample from each dry powdered organic manure collected and kept in oven at 105° for drying, after drying the samples were used for the further analysis [3].

The field was irrigated as per requirement, and dry powder organic manuse/ fertilizer were allowed to decompose for 76 days then the sugarcane was cultivated on 3 x 3m plots of size 3m x 3m i.e. 09sqm., keeping 45 cm distances in rows.

Plant sampling - The crop was harvested early in the morning and the fresh yield of the aerial part of the crop was noted and calculated as kg/ha. Three kg sample of fresh vegetation was cut into small pieces as 1-2 inches by the traditional iron cutter, in which 100gm was dried in oven at 90°C till it gives constant weight for the determination of dry matter (DM), this dried sample was grinded to fine powder and used for further analysis, [1].

Analyses:

Growth Analyses- The morph-physiological traits of the crop were noted at 222, 256 DAS as plant height, diameter, number of leaves per plant, total weight, 4th upper leaf length, width, weight and leaf area per plant was determined by gravimetric method [5].

Statistical Analysis - All the results were statistically analyzed by analysis of variance [ANOVA] test and treatment means were compared using the least significant difference [CD,P_0.05] which allowed determination of significance between different applications. The concentration was calculated on the basis of the standard graph prepared by using variable concentration of the standard solution [3]

Results and Discussion:

Fig.2. Effect of weed bioresources organic manure on morph-physiological growth development analyses of Sugarcane plant done after 256 days shows the highest per plant Weight was in the plot treated with Auspera dry powder organic manure as 1797.75gm followed by Neem seed cake as 1487.25gm then as 1108.25gm on A indica dry powder organic manure treatment. However lowest plant weight was found on control as 407.75 gm followed by P.hysterophorus dry powder organic manure as 710.25 gm then on the treatment of G.sepium dry leaf powder manure as 1023.50gm.

The root weight per plant of sugarcane shows highest on A. aspera dry powder organic manure 182,0gm then followed by Norm wed cake 146.8gm then in G. sepium dry leaf powder manure 141.8gm. Lowest mot weight per plant shows on treatments of control as 21gm followed by P. hysterophorus dry powder organic manure as 83.0gm then on chemical fertilizers NPK as 85.3gm.

The fourth upper leaf weight of sugarcane per plant from apex shows highest on Nevn need cake 23.25gm then followed by A.copera dry powder organic manure 18.75gm then in G.septum dry leaf powder manure 14.50gm. Lowest weight shows on treatments of control as 4.25gm followed by P.bysteropharus dry powder organic manure as 7.88gm then on chemical fertilizers NPK as 13.25gm.

The grawth development analyses of Sugarcase plant done after 256 days, the estimation of leaf Area from the apex 4th leaf per plant shows the highest on A.aspera: dry powder organic manure as 562.86cm² then plot followed by NPK as 442.86cm² then on Neon seed cake organic manure treatments as 414.29cm² and shows lowest leaf area on the treatment of Control as 191.43cm² then followed by P.hysterophorus dry powder organic manure as 262.86cm² then on A.indica dry leaf powder organic manure as 335.71cm².

Table 2. Shows Effect of weed bioresources organic manure on morph-physiological development of Sugarcane plant were noted at the age of 256 das, per plant height was maximum i.e. 363cm in the treatment of on Autpern dry powder organic manure, followed by chemical fertilizers NPK as 305cm then on treatment of Neem seed cake organic manure as 287cm while Minimum plant hight shows on Control as 164cm followed by treatment of Physterophorus dry powder organic manure as 192.5cm then in Aindieu dry leaf powder organic manure as 235cm.

plant stem diameter was maximum in the treatment of on A.indica dry leaf powder organic manure as 10.3cm then on treatment of Neem seed cake organic manure as 9.5cm followed by treatment of Physterophorus dry powder organic manure as 9.4cm, while Minimum plant stem diameter shows on plot Control as 6.8cm then in chemical fertilizers NPK as 8.5cm.

The growth development analyses of Sugarcane plant done after 256 days, the estimation of leaf length from the apex 4th leaf per plant was maximum plot treated with Auspera day powder organic

manure as 132.5cm, followed by Neon seed cake organic manure as 129.5cm while Minimum leaf length shows on Control as 80.3cm followed by treatment of P. hysterophorus dry powder organic manure as 101.0cm then in treatment of chemical fertilizees NPK as 110.8cm.

leaf width from the apex 4th leaf per plant was maximum plot treated with A.aspeni dry powder organic manure as 5.2cm, followed by Neem need cake organic manure as 5.1cm while Minimum leaf width shows on Control as 2.9cm followed by treatment of P.bysterophorus dry powder organic manure as 3.2cm then in treatment of A.indica dry leaf powder organic manure as 4.0cm.

The growth development analyses of Sugarcane plant done after 256 days, the No. of fresh leaves per plant was maximum in plot treated with Neem send cake organic manure as 17 followed by A. aspend dry powder organic manure as 16, while Minimum No. of fresh leaves shows on Control as 5.6 followed by treatment of P. bysterophorus dry powder organic manure as 8 then in treatment of A. indica dry leaf powder organic manure as 10.1, like wise No. of dry leaves per plant was maximum in plot treated with chemical fertilizers NPK as 23 followed by plot of A. aspend dry powder organic manure as 22, while minimum No. of dry leaves per plant was observed in plot treated Control as 14.

The growth analysis of sugarcane plant on 222 days represented in the form of [Fig.1.] and [Table 1] respectively, these shows all significant over control like explained on the 256 days in the form of [Fig.2.] and [Table 2] growth analysis of sugarcane plant above.

Conclusion:

On the basis of result obtained, it can be concluded that Biofertilizers are chief source of nutrients and can be used as supplement for chemical fertilizers.

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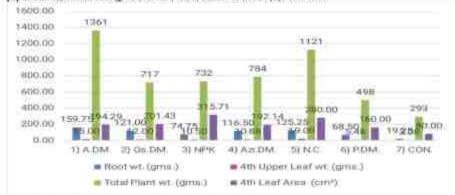


Fig. 1 : Growth Analyses of Sugarcane Plant [222 DAS]

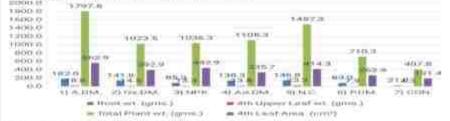


Fig. 2 : Growth Analyses of Sugarcane Plant [256 DAS].

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Table 1: Growth Analyses of Sugarcane Plant [222 DAS].

Treatments.	(c.m.)		4th Up (c.m.)	per Leaf	No. Leaves	ol
	Plant Height	Stem Diameter	Length	Width	Fresh	Dry
I) A,DM.	176	2.40	119	3.58	13.50	1.5
21 Gs.DM	186	6.63	103	3.40	12.75	10
3) NPK	219	6.83	96.	3.48	8.75	17
4) Ari DM.	174	2.50	99	3.18	8.18	11
5) N.C.	207	8:08	113	4.68	14.88	10
6) P.DM.	147	6.98	82	2:45	6.28	13
7) CON	113	5.33	69	2.28	3.83	10

Table 2: Growth Analyses of Sugarcane Plant [256 DAS].

Treatments.	(c.m.)		4th Up (c.m.)	per Leaf	No. of Leave		
	Plant Height	Stem Diameter	Length	Width	Fresh	Dry	
I A.DM.	363.0	9.0	132.5	5.2	0.61	22	
21 Gs.DM.	268.5	8.9	119.8	4.4	15.0	14	
3) NPK	305.0	8.5	110.8	4.4	10.4	23	
4) Azi.DM:	235.0	10.3	115.0	4.0	10:1	17	
5] N.C.	287.0	9.5	129.5	5.1	17.0	15:	
6] P.DM.	192.5	9.4	101.0	3.2	8.0	18	
7) CON.	164.0	6.8	80.3	2.9	5.6	14	





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"RESIDUAL EFFECT OF NON LEGUMINOUS WEED MANURES ON LABLAB PURPUREUS"

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ABSTRACT:

An application of Non Leguminous weeds (Achyranthes aspera and Parthenium hysterophorus) manure usually shows a favourable influence on crop yields for several years. These beneficial effects are distributed over a longer time than those of chemical fertilizers, Parthenium hysterophorus is a species of flowering plant in the aster family, Asteraceae. In India, it is locally known as carrot grass, congress grass or Gajar Ghas. It is an annual herb that aggressively colonizes disturbed sites. It grows on any type of soil and in a wide range of habitats and affects the production of crops, animals, human and animal health, and biodiversity. Achyranthes aspera is a species of plant in the family Amaranthaceae. It is distributed throughout the tropical world. It can be found in many places growing as an introduced species and a common weed.

Present investigation state that the residual effect of organic manures as comparative residual effect of Non leguminous weed compost manure, green manure and dry leaf manure on fodder crop Lablab purpureus plant yields. Lablab purpureus is a species of bean in the family Fabaceae. It is native to Africa and it is cultivated throughout the tropics for food and fodder crop. It is not only drought resistant but also able to grow in a diverse environmental condition around the world.

The experiment was conducted on the farm located at V-P High-tech Research farm, Dist. Beed. The experiment design was a randomized block design [RBD] with ten treatments and three replicates. Previous work in this laboratory and field shows that input, data for the organic manure in form of chemical fertilizers PK and NPK at the rate of 120N, 80P and 40K and compared with organic Non leguminous weed manures as green manure of Achyranthes aspera (AGM), green manure of Parthenium hysterophorus (PGM), mixed green manure of both (A&PGM), Dry manure of Achyranthes aspera (ACO) and compost of Parthenium hysterophorus (PCO). Result shows that green manure and compost manure of Non-leguminous weeds gives long term residual effect on crop Lablab purpureus plant and its improves the soil quality.

Keywords: Non-leguminous, organic, residual, weeds, manure.

INTRODUCTION:

The residual effects of organic matter in soil following manure or compost **price***non on crop yield and soil properties can last for several years. Four years after application, residual effects of one-time application of beef feed lot manure at rates varying from 123 to 590 Mg dry weight ha** (1280-6140 kg N ha**) resulted in a quadratic increase in corn grain yield but

also in increased leaching of NOs-N and Na to a depth of at least 1 m [15]

The residual effects of organic materials on soil properties can contribute to improvement I soil quality for several years after application ceases [7].

Application of organic manures increases soil fertility and other properties [9, 11]. Ayoola O.T. and Makinde E. A. [3] Studied that



complementary Organic and Inorganic Fertilizer Application: Influence on Growth and Yield of Cassava/maize/melon Intercrop with a Relayed Cowpea and concluded that complementary application reduces dependence of the farmer on inorganic fertilizer use. It also reduces the exposure of the soil to the consequences of inorganic fertilizer application.

Organic amendments play a residual role in their ongoing maintenance Residual amendment effects on total nitrogen (N) and phosphorus (P) were apparent 11.5 yr after application [10]. Residual effects of organic fertilizers on chemical properties of soil was studied by Tabibian et al. [14] and found significant increase in organic matter, electrical conductivity.

Excessive and imbalanced use of chemical fertilizers has adversely affected the soil, causing decreasing the structure and water holding capacity, reduction in organic carbon and microbial flora of soil results as increasing acidity and alkalinity and harding of soil, to solve this organic manure plays an important role, they are complementary to the chemical fertilizers and many times they have the capacity to replace them [5,6].

An application of manure usually shows a favourable influence on crop yields for several years. These beneficial effects are distributed over a longer time than those of chemical fertilizers. Present investigation state that the residual effect of Non-leguminous (Parthenium hysterophorus and Achyranthes asperal weeds organic manures as compost, green and dry leaf manure. Effect was studied on growth and yield of Lablab purpureus.

Lablab purpureus is a species of bean in the family Fabaceae, it is cultivated throughout the tropics for food. It is a very important

fodder crop for tropical people, especially in the dry season and with its enhanced nutritional value. It is not only drought resistant but also able to grow in a diverse environmental condition around the world.

During the dry season Lablab purpuras dense green cover protects the soil from the action of sun rays and it can be advantageously used as a cover crop to reduce soil erosion due to wind or rain. Parthenium hysterophonus is a species of flowering plant in the aster family, Asteraceae In India, it is locally known as carrot grass, congress grass or Gajar Ghas. It is an annual herb that aggressively colonizes disturbed sites. It grows on any type of soil and in a wide range of habitats. It affects the production of crops, animals, human and animal health, and biodiversity. Achyronthes aspera is a species of plant in the family Amaranthaceae It is distributed throughout the tropical world. It can be found in many places growing as an introduced species and a common weed.

MATERIALS AND METHODS:

Field site and experimental design - The experiment was conducted on the farm located at V-P High-tech Research farm, Dist. Beed. The experiment design was a randomized block design [RBD] with ten treatments and three replicates [Table 1].

Treatments, Seeds variety and plot size -The present work related to treatments of plots dependes on the basis of the previous work of the field. First maize crop was harvested then on bed of previous residual effect of organic manure plots like comparative residual effect of compost, green manure and dry leaf manure. Previous work in this laboratory and field shows that input, data for the organic manure in form of chemical fertilizers PK and



NPK at the rate of 120N, 80P and 40K and Control (CON) compared with Non leguminous weeds organic manures as green manure of Achyranthes aspera (AGM), green manure of Parthenium hysterophorus (PGM), mixed green manure of both A.aspera & P.husterophorus (A&PGM), Dry manure of Achyranthes aspera manure of **Parthenium** Dry. hysterophorus (PDM), compost of Achyranthes aspera (ACo) and compost of Parthenium hysterophonus (PCo), after 41 days of interval the Variety Lablab purpureus was sown. It was produced by a Patel Seeds Corporation, old Mandi P.O. Padra (Baroda, Gujrat). 36gm/plots of size 3m x 3m i.e. at the rate of 40 kg/ha each.

Plant sampling -

After 56 days of age the green foliage of Lablah purpureus was harvested during the early hours of the day, 3 kg vegetaion was cut in to small pieces and samples from each plot [100 gm plot 1] were immediately collected.

Finally the total crop Lablab purpureus was harvested at the 56 DAS of age, plant fresh weight of the fodder yield obtained per plot was recorded on the field itself [100 gm plot -1] samples of each treatment along with control they were oven dried at 90 ° C for 2 Days till it gives constant weight for the determination of dry matter (DM), this dried sample was grinded to fine powder and stored in sealed polythene bags for further analysis as dry matter N, P, K and ash percentage from each sample [Table 2].

Analysis:

Chemical Analysis -

Samples of each treatment along with control were kept in oven for further chemical analysis. Ash values were obtained by burning the moisture-free samples in a muffle furnace at 500°C for 2 hours, Carbon (C) was then calculated by multiplying A value with 0.58 as factor and Calcium (Ca) content was analyzed by titrating the sample solution against 0.01 N KMnO₄ solution using methyl red as indicator [2] Nitrogen (N) was measured by micro-Kieldahl's method after digesting the sample with Conc. H2SO4 according to Bailey [4] and crude protein (CP) was expressed N x 6.25 equation as specified by AOAC, [2]. Total Reducing Sugar (RS) was determined by reacting the sample with phosphomolybdic acid at 420 nm using Folin-Wu-tubes and Phosphorus (P) was analyzed by reacting the sample with ammonium molybdate solution at 660 nm following Fiske and Subba Rau (1972) described by Oser [13]. Potassium (K) content was determined on a flame photometer model mediflame- 127 as suggested by Jackson [8]. The concentration of P and K was calculated on the basis of the standard graph prepared by using variable concentration of the standard solution.

Statistical Analysis -

All the results were statistically analyzed by using analysis of variance [ANOVA] test and treatments means were compared using the least significant difference [CD,P_0.05] which allowed determination of significance between different applications [12].

RESULTS AND DISCUSSION:

Fig.1. Show that residual effect of Non-leguminous weeds organic manures on Lablab purpureus the total plant analysis as fresh weight and Dry matter kg/ha produced highest amount of fresh weight observed in the treatment of P. hysterophorus Compost manure as 4889kg/ha followed by the treatment on P. hysterophorus Green manure as 4704kg/ha then in P. hysterophorus and A. aspera Green manure as 4574kg/ha. Lowest



Fresh Weight observed in the Control as 2963kg/ha followed by P.hysterophorus dry manure as 3407kg/ha then on chemical fertilizers PK treatment as 3481kg/ha.

Dry matter kg/ha was maximum on the P.hysterophorus and A.aspera Green Manure as 791kg/ha then Physterophorus Compost manure as 782kg/ha followed by A.aspera Green Manure as 711kg/ha and minimum in the treatment of Control as 523kg/ha then in chemical fertilizers NPK as 526kg/ha followed by A aspera Dry manure as 535kg/ha then in chemical fertilizers PK as 540kg/ha.

Fig. 2. Show that total plant Nitrogen kg/ha maximum in the treatment of P.hysterophorus and A.aspera Green Manure as 19.77kg/ha followed by A.aspera Green Manure 19.56kg/ha then as COL P.hysterophorus compost manure 18.24kg/ha and minimum on the treatment of Control as 11.77kg/ha followed by chemical fertilizers PK treatment as 13.93kg/ha then chemical fertilizers NPK treatment 14.03kg/ha.

The Total Reducing Sugar kg/ha was maximum in the treatment of A aspera Green Manure as 19.79kg/ha then Physterophorus and A aspera Green Manure as 18.99kg/ha then on P.hysterophorus compost manure as 17.62kg/ha and minimum on the treatment of Control as 11.00kg/ha followed by chemical fertilizers NPK treatment as 11.69kg/ha.

Fig.3. Carbon % was maximum in the treatment of Aaspera dry manure as 6.1% followed by A aspera green manure as 5.94% then Physterophorus green manure as 5.65% and minimum observed on the treatment of Control as 4.06% then treatment of A.aspera compost manure as 4.79% then of chemical fertilizers NPK treatment as 5.37%

C/N Ratio was maximum in the treatment of P.hysterophorus green manure as 2.34 followed by Physterophorus compost manure as 2.31 then A aspera dry manure as 2.22 and minimum observed in the treatment of Control as 1.81 then treatment of A.aspera compost manure as 1.86 then of chemical fertilizers NPK treatment as 2,02.

Table 3. This Table demonstrate the Percent increase over control Fresh weight, Dry matter, Nitrogen, Total Reducing Sugar kg/ha and also Ash, Carbon, Phosphorous, Potassium, Nitrogen as %.

Fresh vegetation percent increase over control kg/ha of Lablab purpureus was highest in the treatment of compost of P.hysterophorus as 65kg/ha followed by P.hysterophorus green manure as 59kg/ha then Physterophorus and A aspera green manure as \$4kg/ha and lowest value were recorded on dry manure of Physterophonia as 15kg/ha followed by PK then A aspera dry manure as 19kg/ha then chemical fertilizers NPK as 23kg/ha followed by green manure of A.aspera as 41kg/ha.

The Total Reducing Sugar kg/ha Percent increase over control was highest in the A.aspera Green manure as 80kg/ha followed by green manure of P.hysterophorus and A aspera as 73kg/ha then P.hysterophorus compost manure as 60kg/ha and lowest values were recorded on treatment of chemical fertilizers NPK as O6kg/ha followed by chemical fertilizers PK as 23kg/ha then A aspera dry manure as 41kg/ha

Nitrogen percent increase over control kg/ha of Lablab purpureus was highest in the treatment of Physterophorus and Auspera green manure 68kg/ha then on green manure of A aspera as 66kg/ha then followed by compost of P.hysterophorus as 55kg/ha and lowest value were recorded on chemical



fertilizers PK as 18kg/ha then on chemical fertilizers NPK as 19kg/ha treatment.

Phosphorous Percent increase over control maximum in the A aspera Compost as 49% followed by A aspera dry manure as 45% then P hysterophorus dry manure as 44% and minimum observed on the treatment of chemical fertilizers PK as 05% then on P hysterophorus and A aspera green manure as 14% then on P hysterophorus compost manure as 21% followed by chemical fertilizers NPK as 22%, P hysterophorus green manure as 27%.

Potassium Percent increase over control highest in the treatment of A.aspera green manure as 33% followed by P.hysterophorus and A.aspera green manure as 22.48% then on P.hysterophorus green manure as 21.71% and Lowest found in the treatment of the chemical fertilizers PK as 04% then followed by P.hysterophorus compost manure as 08% and then P.hysterophorus dry manure as 12%.

The results show that residual effect of Nonleguminous weeds manure on the crop of Lablab purpureus the total plant analysis as fresh weight, Dry matter, Nitrogen, Total Reducing Sugar kg/ha and also Ash, Carbon, Phosphorous, Potassium, Nitrogen as % were calculated on the dry matter basis shows all significant over control.

CONCLUSION:

On the basis of result obtained, it can be concluded that residual effect of all Non-Leguminous weeds Manure plays an important role, Among the residual effect of all Composted manure and Green Manure on crop Lablab purpureus plant had the highest biological yield and land use efficiency.

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			East			
	1] P.&A.GM.	2) PK	3] A.GM.	4) NPK	5] A.DM.	
	6} P.GM.	7) A.Co.	8) P.Co.	9) CON.	10} P.DM.	
North	11} A.Co.	12) CON.	13] P.GM.	14} P.&A.GM.	15) A.DM.	South
1102211	16] A.GM.	17] P.Co.	18} PK	19} NPK	20) P.DM.	John
	21] P.GM.	22) PK	23) P.&A.GM.	24] P.Co.	25} A.GM.	
	26] A.DM.	27} A.Co.	28] CON.	29) NPK	30} P.DM.	
			West	l-		

Table 1: Randomised Block Design Residual Effect of Non-leguminous weeds organic manure on crop

Lablab purpureus.



Sr. No.	Field Activities	Period [DAS]	Sr. No.	Field Activities	Period [DAS]
Ē	Weed Collection: Achyranthes, Parthenium	00 DAS	7	Growth Analyses of Crop - 1	27 DAS
2	Preparation of Dry Manure	15 DAS	8	Chlorophyll Analyses of Crop - 1	28 DAS
3	Preparation of Compost Manure	30 DAS	9	Growth Analyses of Crop	43 DAS
4	Treatments given to R. B. D. plots	32 DAS	10	Chlorophyll Analyses of Crop - II	44 DAS
5	Sowing of Crop <u>Lablab</u> purpuras	145 DAS	11	Harvesting of Crop	56 DAS
6	Field Activities (Lablab purpuras)	[00 DAS]	12	Chemical Analyses	74 DAS

Table 2: Field Activities of crop Lablab purpureus on Plots of Residual Effect of Non-leguminous weeds organic manure.

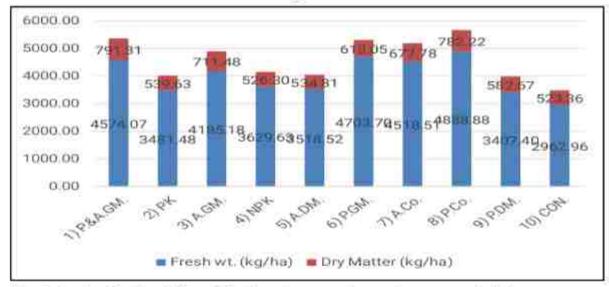


Fig. 1: Graph of Residual Effect of Non-leguminous weeds organic manure on Lablab purpureus crop analyses of total plant Fresh wt. S.E. = 124, C.D. = 260 and Dry matter S.E. = 50.66, C.D. = 106 [kg/ha].



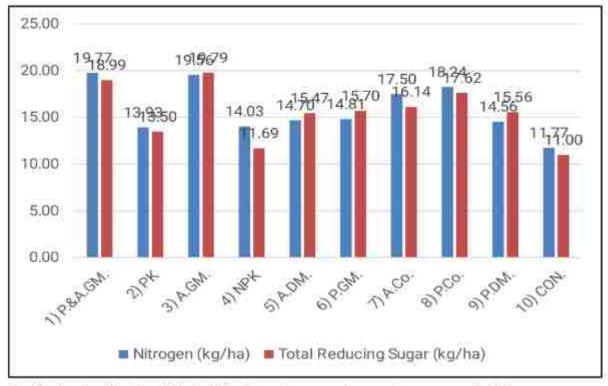


Fig. 2: Graph of Residual Effect of Non-leguminous weeds organic manure on Lablab purpureus crop analyses of total plant Nitrogen kg/ha S.E.= 1.8, C.D.= 3.8 and Total Reducing Sugar kg/ha S.E.= 1.2, C.D.= 2.6 [kg/ha].

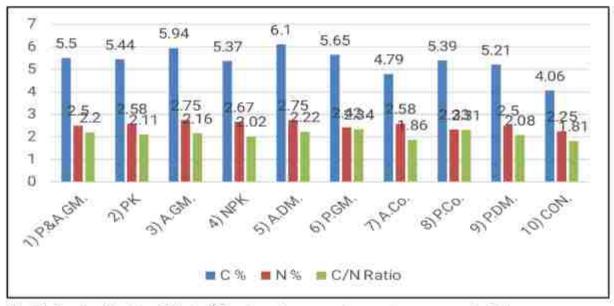


Fig. 3: Graph of Residual Effect of Non-leguminous weeds organic manure on Lablab purpureus crop analyses of total plant Carbon% S.E. = 0.25, C.D. = 0.52 Nitrogen% S.E. = 0.19, C.D. = 0.39 and C/N

Ratio S.E. = 0.19, C.D. = 0.39



PARTERS AND ADDRESS AND		Kg./ha.					%				
Treatments	F.wt.	D.M.	N.	C.P.	R.S.	D.M.	P,	K.	A.	C.	N.
1) CON.	0	(0)	0	(0)	0	0	0	0	0	0	0
2) P.&A.GM.	54	51	68	68	73	33	14	22	35	35	11
3) PK	18	3	18	18	23	19	5	4	34	34	15
4) A.GM.	41	36	66	56	80	30	33	33	46	46	22
5) NPK	23	1	19	19	6	11	22	15	32	32	19
6) A.DM.	19	2	25	25	41	17	45	13	50	50	22
7) P.GM.	59	17	26	26	43	36	27	22	39	39	7
8) A.Co.	53	30	49	49	47	15	49	14	18	18	15
9) P.Co.	65	49	55	55	60	23	21	8	-33	33	:4
10) P.DM.	15	11	24	24	42	31	44	12	28	28	11

Table 3: % increase over control of crop Lablab purpureus on Plots of Residual Effect of Nonleguminous weeds organic manure.



To Study of Various Plants Grafting For the Home-Gardening Purposes

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ABSTRACT

Article Info

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Article History

Accepted: 02 July 2021 Published: 25 July, 2021 In India, almost all people parches grafted verities of fruit plants from nursery at near from home and very high rate without knowing about how to select and grafted properly infection free, rare and testy fruit plant varieties using proper techniques at near home open space or Garden.

Grafting is a horticultural technique where by tissues of plants are joined to continue their growth together. The upper part of the plant is said the scion while the lower part is named the rootstock. The success of this joining requires that the vascular tissues grow together and such joining is known as inosculation. The technique is most ordinarily utilized in asexual propagation of commercially grown plants for the horticultural and agricultural trades.

The experiment was conducted on the farm located at Khandepargaon, V-P High-tech Research farm, Dist. Beed. One plant was selected for its roots and was called the stock or rootstock. The other plant was selected for its stems, leaves, flowers or fruits are called the scion or cion. The scion contains the specified genes to be duplicated in future production by the stock/scion plant. I used some modern facility available near and use of it increased the success rate of grafting some popular current trends in ornamental & fruit plant grafts take appropriate and it ideally suited to garden conditions.

On the basis of result obtained it was concluded that favorite varieties are not grown by seed sowing. Many of popular fruit & ornamental plants of desirable characters like smell, texture, taste, color, size, etc. was grown by vegetative propagation method (artificial) named as grafting.

Keywords: asexual, propagation, techniques, section, scion, rootstock.

I. INTRODUCTION

As humans began to domesticate plants and animals, horticultural techniques that could reliably propagate the desired qualities of long-lived woody plants needed to be developed.

For successful grafting to take place, the vascular cambium tissues of the stock and scion plants must be placed in contact with each other. Both tissues must be kept alive until the graft has "taken", usually a period of a few weeks. Successful grafting only requires that a vascular connection take place between the grafted tissues. Joints formed by grafting are not as strong as naturally formed joints, so a physical weak point often still occurs at the graft because only the newly formed tissues inosculate with each other. The existing structural tissue (or wood) of the stock plant does not fuse.

In stem grafting, a common grafting method, a shoot of a selected, desired plant cultivar is grafted onto the stock of another type. In another common form called bud grafting, a dormant side bud is grafted onto the stem of another stock plant, and when it has inosculated successfully, it is encouraged to grow by pruning off the stem of the stock plant just above the newly grafted bud.

II. MATERIALS AND METHODS:

Field site:

The experiment was conducted on the farm located at Khandepargaon, V-P High-tech Research farm, Dist. Beed. One plant was selected for its roots and was called the stock or rootstock. The other plant was selected for its stems, leaves, flowers or fruits are called the scion or cion. The scion contains the desired genes to be duplicated in future production by the stock/scion plant. I used some modern facility available near and use of it increased the success rate of grafting some popular current trends in ornamental & fruit plant grafts take appropriate and it ideally suited to garden conditions. "Scientific information collected from different authentic websites, journals and e-contents related to topics, near about all are hilighted in references".

Cutting tools:

It is good procedure to keep the cutting tool sharp to minimize tissue damage and clean from dirt and other substances to avoid the spread of disease. A good knife for general grafting should have a blade and handle length of about 3 inches and 4 inches respectively. Specialized knives for grafting include bud-grafting knives, surgical knives, and pruning knives. Cleavers, chisels, and saws are utilized when the stock is too large to be cut otherwise.

Disinfecting tools:

Treating the cutting tools with disinfectants ensures the grafting site is clear of pathogens. A common sterilizing agent is absolute alcohol.

Graft seals:

Keeps the grafting site hydrated. Good seals should be tight enough to retain moisture while, at the same time, loose enough to accommodate plant growth. Includes specialized types of clay, wax, petroleum jelly, and adhesive tape.

Tying and support materials:

Adds support and pressure to the grafting site to hold the stock and scion together before the tissues join, which is especially important in herbaceous grafting. The employed material is often dampened before use to help protect the site from desiccation. Support equipment includes strips made from various substances, twine, nails, and splints.

III. ARTIFICIAL GRAFTING TECHNIQUES

Artificial Grafting is an artificial method of asexual reproduction used to produce plants combining favorable stem characteristics with favorable root characteristics. The stem of the plant to be grafted is known as the scion, and the root is called the stock.

Approach (T budding):

Approach grafting or inarching is used to join together plants that are otherwise difficult to join. The plants are grown close together, and then joined so that each plant has roots below and growth above the point of union. Both scion and stock retain their respective parents that may or may not be removed after joining. Also used in pleaching. The graft can be successfully accomplished any time of year.

Bud Grafting:

Bud grafting (also called chip budding) uses a bud instead of a twig. Grafting roses is the most common example of bud grafting. In this method a bud is removed from the parent plant, and the base of the bud is inserted beneath the bark of the stem of the stock plant from which the rest of the shoot has been cut. Any extra bud that starts growing from the stem of the stock plant is removed. Examples: roses and fruit trees like peaches, Bud wood is a stick with several buds on it that can be cut out and used for bud grafting. It is a common method of propagation for citrus trees.

Cleft Grafting:

In cleft grafting a small cut is made in the stock and then the pointed end of the scion is inserted in the stock. This is best done in the early spring and is useful for joining a thin scion about 1 cm (% in) diameter to a thicker branch or stock. It is best if the former has 3-5 buds and the latter is 2-7 cm (%-2 4 in) in diameter. The branch or stock should be split carefully down the middle to form a cleft about 3 cm (1 % in) deep. If it is a branch that is not vertical then the cleft should be cut horizontally. The end of the scion should be cut cleanly to a long shallow wedge, preferably with a single cut for each wedge surface, and not whittled. A third cut may be made across the end of the wedge to make it straight across. Slide the wedge into the cleft so that it is at the edge of the stock and the centre of the wedge faces are against the cambium layer between the bark and the wood. It is preferable if a second scion is inserted in a similar way into the other side of the cleft. This helps to seal off the cleft. Tape around the top of the stock to hold the scion in place and cover with grafting wax or sealing compound. This stops the cambium layers from drying out and also prevents the ingress of water into the cleft.



1. Approach (T budding)



Bud Grafting



3. Cleft Grafting

Whip Grafting:

In whip grafting the scion and the stock are cut slanting and then joined. The grafted point is then bound with tape and covered with a soft sealant to prevent dehydration and infection by germs. The common variation is a whip and tongue graft, which is considered the most difficult to master but has the highest rate of success as it offers the most cambium contact between the scion and the stock. It is the most common graft used in preparing commercial fruit trees. It is generally used with stock less than 1.25 cm (½ in) diameter, with the ideal diameter closer to 1 cm (¾ in) and the scion should be of roughly the same diameter as the stock.

The stock is cut through on one side only at a shallow angle with a sharp knife. (If the stock is a branch and not the main trunk of the rootstock then the cut surface should face outward from the centre of the tree.) The scion is similarly sliced through at an equal angle starting just below a bud, so that the bud is at the top of the cut and on the other side than the cut face.

In the whip and tongue variation, a notch is cut downwards into the sliced face of the stock and a similar cut upwards into the face of the scion cut. This act as the tongues and it requires some skill to make the cuts so that the scion and the stock marry up neatly. The elongated "Z" shape adds strength, removing the need for a companion rod in the first season (see illustration).

The joint is then taped around and treated with treesealing compound or grafting wax. A whip graft without a tongue is less stable and may need added support.

Stub Grafting:

Stub grafting is a technique that requires less stock than cleft grafting, and retains the shape of a tree. Also scions are generally of 6–8 buds in this process.

An incision is made into the branch 1 cm (% in) long, then the scion is wedged and forced into the branch. The scion should be at an angle of at most 35° to the parent tree so that the crotch remains strong. The graft is covered with grafting compound. After the graft has taken, the branch is removed and treated a few centimeters above the graft, to be fully removed when the graft is strong.

Four-flap Grafting:

The four-flap graft (also called banana graft) is commonly used for pecans, and first became popular with this species in Oklahoma in 1975. It is heralded for maximum cambium overlap, but is a complex graft. It requires similarly sized diameters for the rootstock and scion. The bark of the rootstock is sliced and peeled back in four flaps, and the hardwood is removed, looking somewhat like a peeled banana. It is a difficult graft to learn.



4. Whip Grafting



5. Stub Grafting



6. Four-flap Grafting

Awl Grafting:

Awl grafting takes the least resources and the least time. It is best done by an experienced grafter, as it is possible to accidentally drive the tool too far into the stock, reducing the scion's chance of survival. Awl grafting can be done by using a screwdriver to make a slit in the bark, not penetrating the cambium layer completely. Then inset the wedged scion into the incision.

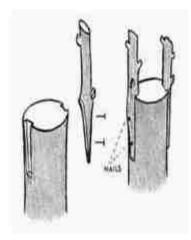
Veneer Grafting:

Veneer grafting, or inlay grafting, is a method used for stock larger than 3 cm (1 % in) in diameter. The scion is recommended to be about as thick as a pencil. Clefts are made of the same size as the scion on the side of the branch, not on top. The scion end is shaped as a wedge, inserted, and wrapped with tape to the scaffolding branches to give it more strength. May alternately be named a rind graft or a bark graft.

Air Layering:

Air layering is a propagation method for woody plants that allows you to root branches while still attached to the parent plant. It is useful for plants that are hard to propagate by cuttings or if you want your new plant to have a larger size than could be accomplished by taking cuttings.





7. Awl Grafting



8. Veneer Grafting



9. Air Layering Grafting

IV. RESULTS

Grafting methods give the plant a certain characteristic of the rootstock - for example, hardiness, drought tolerance, or disease resistance. Methods require extensive knowledge of nursery crop species and their compatibility, grafting techniques that are usually practiced only by more experienced nursery operators. Ornamental & fruit plant grafting is very popular in India. The main advantage of grafting is for disease-resistant rootstocks.

V. CONCLUSION

On the basis of result obtained it was concluded that favourite varieties are not grown by seed sowing. Many of popular fruit & ornamental plants of desirable characters like smell, texture, taste, color, size, etc. was grown by vegetative propagation method (artificial) named as grafting.

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Research Paper

Changes in the glycogen content of Lammellidens marginalis after exposure of acute toxicity of Cadmium in winter season.

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Abstract: Toxicity of cadmium on some metabolic processes can lead to disturbances and imbalance of various physiological activities. The present study reflects the effect of cadmium chloride on glycogen in some vital organs of the fresh water Bivalve mollusks Lammellidens marginalis. The bivalve were treated with different concentrations of cadmium chloride mortality rate was noted up to 96 h. The carbohydrates were estimated to study the stress caused by the cadmium chloride as a toxicant. The results showed a significant decline in the total carbohydrates in different. significant role of cadmium chloride in some vital organs of the experimental animal is discussed and the results correlated and corroborated with the findings of the earlier researchers.

Keywords: Lammellidens marginalis, Cadmium chloride, glycogen, Toxicity

INTRODUCTION:

Cadmium is a ubiquitous, non essential element which possesses high toxicity to both human and aquatic organisms. It is classified as the second most dangerous metal in our environment. It occurs naturally in the environment and in insignificant amount In the recent past, its concentration in aquatic systems is steadily and considerably increasing due to anthropogenic activities (Bryan and Langston 1992). Its deleterious effects on aquatic flora and fauna by adverse effect on various physiologica, biochemical and cellular processes have been reported (Gill et. al., 1988). Cadmium toxicity has become the focus of intense research globally next to mercury as the most notorious of heavy metal pollutant. After absorption into the gastro-intestinal tract it is transferred to the liver, kidney and finally excreted via urine. It becomes toxic when it is not metabolized by the body and accumulates in soft tissues, liver, kidneys and mostly as metalloprotein (Nodberg and Nodberg, 2000).

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Cadmium toxicity to aquatic ectotherms depends on complex biochemical interaction and a balance between rates of absorption, detoxification and excretion. It has been found that cadmium could change glycogen reserves and serum glucose levels in aquatic animals by affecting the activities of liver enzymes that have pivotal role in the carbohydrate metabolism such gluconeogenesis, glycogenesis and glycolysis. Thus, the several biochemical parameters of aquatic animals could be used as an indicator of heavy metal toxicity and health status of population The Lammellidens marginalis is well known for its high nutritive value and is commonly cultured by the local farmers. Cadmium causes instantaneous physiological disorders and alteration in the pathways of carbohydrate metabolism in tissues and organs. Biochemical parameters are the best indicator of stress caused by heavy metals and thus toxicity testing becomes an essential tool for assessing the effect and fate of a toxicant. Therefore, the studies were conducted to estimate the toxicity and variations in carbohydrate levels; in Lammellidens marginalis exposed to cadmium

MATERIALS AND METHODS:

The freshwater bivalves Lamellidens marginalis (90 – 100 mm in shell length) were collected from Kutlaq Lake, Daultabad near Aurangabad (Maharashtra State) India. After bringing to the laboratory, the fouling biomass and mud on shell valves were removed without disturbing the siphonal regions. The equal sized animals were grouped nd kept in sufficient

quantity of water (animal / litre) in aquaria with aeration for 24 hours to adjust the animals to laboratory conditions with renewal of water at interval of 12 to 13 hours. No food was given during this time and during experiments. After 24 hours animals of equal size (90 - 100mm shell length) were grouped in 10 and exposed to different test concentrations of cadmium. After 96hrs acute toxicity tests biochemical constituent like glycogen from different body parts viz. mantle, gill, gonad, hepatopancreas, foot, was estimated from control, LC0 and LC50 groups. During estimate pooled samples from five animals belonging to each group were used to determine the content of glycogen (De zwann and Zandee, 1972). The values of estimate for different tissues were subjected to statistical analysis using replicate multiple variances to find out the significant differences between control. LC0 and LC50 groups. The results are expressed on wet weight basis (mg/gm).

RESULT AND DISCUSSION:

Table Changes in the glycogen from different body parts of Lammellidens marginalis after exposure of acute toxicity tests of Cadmium in winter season. In Control group increased value from mantle (11.628±0.442) followed by gill (6.288±0.177), hepatopancreas (5.298±0.172), gonad (5.196±0.197) and foot In LCO group glycogen content was highest value showed in foot (11.335±0.398) followed by mantle (7.263±0.298), gill (5.119±0.223), gonad (4.503±0.141) and hepatopancreas (3.268±0.127).

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Table: Changes in the glycogen from different body parts of Lammellidens marginalis after exposure of acute toxicity tests of Cadmium in winter season.

Body Parts	Control	LC0 Group	LC50 Group
	11.628	7.263±0.298	3.738±0.131
Mantle	±0.442	(37.53%) ***	(67.85%) ***
		1140-1114	(48.53%)000
	6.288	5.119±0.223	4.417±0.127
Gill	±0.177	(18.59%) ***	(29.75%) ***
		1343. 235. 253.138.	(13.71%)000
	5.196	4.503±0.141	6.832±0.272
Gonad	±0.197	(13.33%) **	(231.4%) ***
~~~~~			(51.72%)000
	5.298	3.268±0.127	4.729±0.261
Hepatopancreas	$\pm 0.172$	(38.31%) ***	(189.26%) ***
		17.000000000000000000000000000000000000	(44.70%)000
	3.317	11.335±0.398	8.276±0.288
Foot	±0.148	(241.7%) ***	(349.5%) ***
		Ta-string transport	(26.98%)000

(Bracket values shows percentage difference *, 0-P<0.05; **, 00-P<0.01; ***, 000-P<0.001.*compared to control group; 0-compared to LC0 group)

In LC50 group content of glycogen was highest value showed in foot (8.276±0.288) followed by gonad (6.832±0.272), hepatopancreas (4.729±0.261), gill (6.832±0.272) and mantle (3.738±0.131).

LC0 group compared with control group highest value of significantly found in foot (241.7% P<0.01) followed by hepatopancreas (38.31% P<0.001) and mantle (37.53%P<0.001) and gill (18.59% P<0.001). Decreased value of significant found in gonad (13.33% P<0.01).

LC50 group compared with Control group high content of significant found in foot (349.5% P<0.001) followed by gonad (231.4%P<0.001), hepatopancreas (189.26% P<0.001), mantle (67.85% P<0.001) and gill (29.75% P<0.001).

When LC50 compared with LC0 group high value of significantly found in gonad (51.72% P<0.001) followed by mantle (48.53% P<0.001), hepatopancreas (44.70% P<0.001), foot (26.98 % P<0.001) and gill (13.71% P<0.001).

Glycogen is considered to be the major source of energy in animal tissues and maintenance of glycogen reserves is an essential feature of the normal organismal metabolism. It also plays an important role in the structural part of the cell membranes De Zwaan and Zandee, (1972). The decrease in glycogen content form the whole body of the bivalve, *L. marginalis* suggests the possibility of the glycogenolysis which in turn produce energy to cope up the adverse stress conditions.

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According to (Berthelin, et. al., 2000) energy metabolism affected by exogenous factors such as food availability and temperature as well as by endogenous factors such as energy demands for reproduction, metabolic reserves accumulated in tissues may be used in energy production or converted into various biochemical components. Bivalves store energy in the form of glycogen (Naimo, et. al., 1998). High values of glycogen and carbohydrate were reported in bivalves when they are sexually inactive (Nagabhushnam and Deshmukh. 1974). Anv stressful.

ASSESSAM NO SESSAMOSSOM MORAL COUGOMAN

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condition alters the biochemical composition. The change in metabolic rate leads towards the change in biochemical composition hence, the change in biochemical composition is an indicator of stress of chemical or physical nature in the surrounding which mainly affects glycogen contents.

Glycogen content in the gill tissue of exposed animals showed a general trend of reduction when compared with the controls. The reduction in glycogen values was found to be significant at almost all exposure periods significant depletion in glycogen level suggests possibility of its rapid utilization to provide excess energy for cellular biochemical process through glycolysis. Hypoxic condition might have been prevailed in the bivalve to provide excess energy by its utilization.

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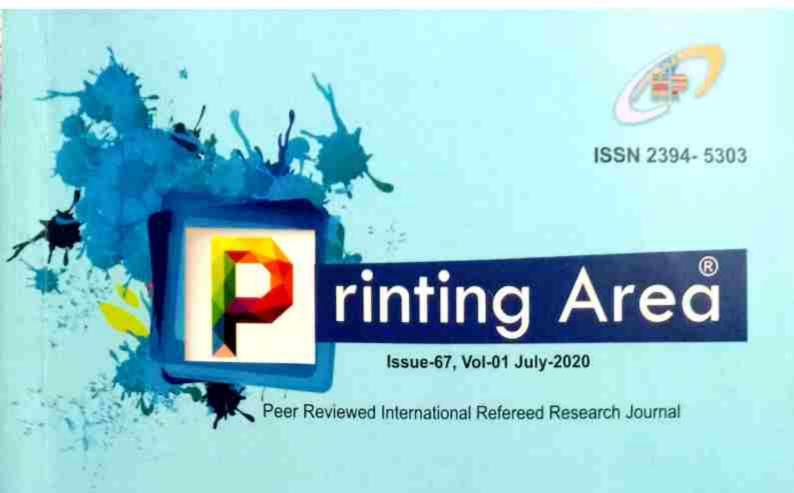
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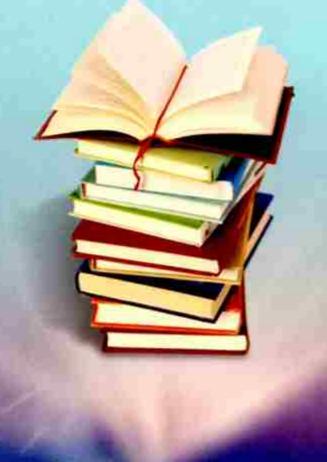
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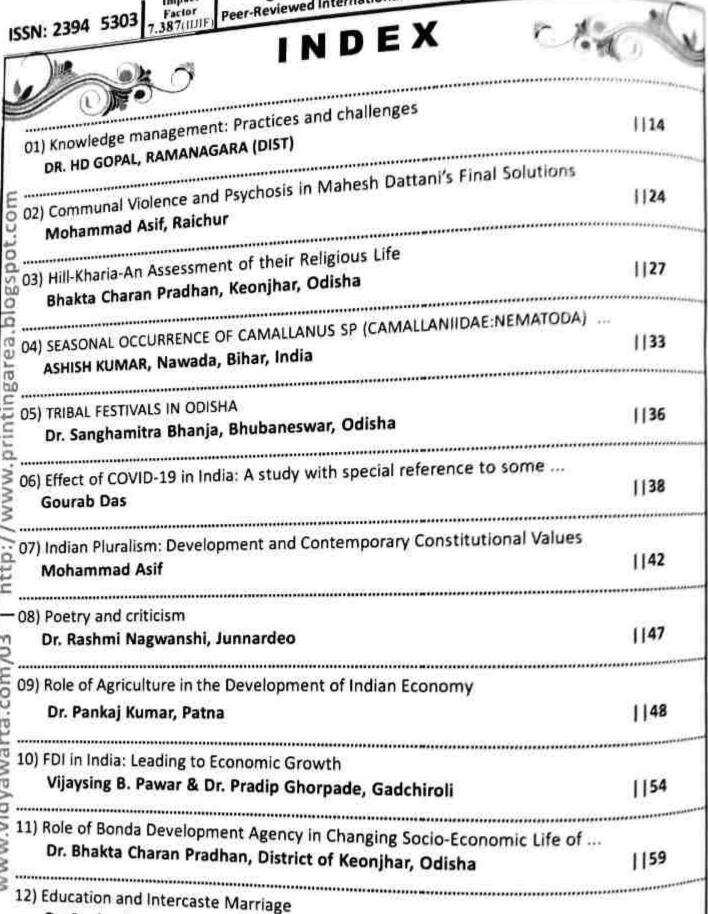
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Dr. Sanjay Dyanoba Sawant, Dist. Kolhapur

Dr. Gouravjeet Singh & Dr. Neena Sawhney

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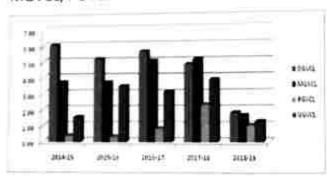
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shows increasing trend except 2018-19. Financial leverage reveals decreasing trend. Table 5 showing Du-Pont analysis of DGVCL, MGVCL, PGVCL & UGVCL

_	T 1016 19	2012-16	3019-17	THE P. LEWIS CO., LANSING.	2678.54
Name of the last	1.05	1.10	1,34	6.42	1.80
DOM:	1.71	1.65	145	3.11	1,34
Marina .	1.00	0.11	0.84	2.62	1.44
PORT.	1.64	1.66	+11	3.65	1.29

Graph 5 showing Du-Pont analysis of DGVCL, MGVCL, PGVCL & UGVCL



### Conclusion:

The DuPont Return on Equity is highest 6.05 in 2014-15 of DGVCL and lowest 0.33 in 2015-16 of PGVCL. The Return on Equity earned by DGVCL is highest among all companies in every year except the year 2017-18.

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## **FUZZY FULLY LINEAR FRACTIONAL** PROGRAMMNG PROBLEM UNDER FUZZY CIRCUMSTANCES

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Keywords :- Linear programming problem, Triangle Fuzzy numbers, Fuzzy mathematical programming.

Abstract :- Several methods currently exist for solving fuzzy fractional programming problems under non negative fuzzy variables.

However, due to the limitation of these methods they cannot be applied for solving fully fuzzy linear fractional programming [FFLEP] problems where all the variable and parameters are fuzzy numbers.

So this paper is planning to fill in this gap and in order to obtain the fuzzy optimal solution. We propose a new efficient method for FFLFP problems utilized in daily life circumstances.

Here, FFLFP problem transformed into an equivalent Multi-objective linear fractional programming [MOLFP] problem.

Then MOLFP converted into an equivalent multi objective linear programming problem by using Mathematical programming approach.

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This proposed is based on crisp linear fractional programming and has a simple structure.

To show the efficiency of our proposed method some numerical examples have been illustrated.

Introduction :- The Fuzzy linear fractional programming problems in which all the parameters and variables are represented by Fuzzy numbers are known as fully fuzzy linear fractional programming [FFLFP] problems.

in the actual cases the parameters may be uncertain or a vague estimation about the variable is known as those are found in general by some experiment.

To overcome the uncertainty and vagueness one may use the fuzzy numbers in the place of the crisp numbers.

Thus the crisp system of linear fractional programming problem becomes a fuzzy system FLEP problem or FFLFP problem.

In the FFLFP problem all the parameters and variables are considered to be Fuzzy numbers. Nowadays the problem of FLFP problems has significant application in different real life areas such as production planning financial sector, health care and all engineering fields.

For this reason, this is an important area of research in the recent years.

In this we consider the FFLFP problem.

Nowadays the problem of linear fractional programming has significant application in different real life areas such as production planning, financial sector, health care and all engineering fields.

However in real world applications certainty reliability and precision of data is often illusory.

The optimal solution of an Lp only depends on a limited number of constraints therefore much of the collected information has little impact on the solution.

It is useful to consider the knowledge of

experts about the parameters as Fuzzy data

In recent years many methods currently exist for solving FFLFP problem under non negative fuzzy variables.

The concept of Fuzzy set and fuzzy numbers was first introduced the authors proposed a method to solve multi-objective linear fractional programming [MOLFF] problem under a fuzzy satisfied.

The FFLP problem by establishing all the coefficients and variable of linear program as being fuzzy quantities was introduced.

Recently pop and minasian, proposed a method for solving fully falsified linear fractional programming problems where all the parameters and variables are triangular fuzzy numbers.

They considered the same problem of for solving fully fuzzy linear fractional programming problem. In this we modified the methods of first we transform the FFLFP the methods of problem into a FFLFP problem with the help of Charnes-Cooper method.

Then using a new technique, the FFLP problem will be converted into a multi-objective linear programming [MOLP] problem, We also prove that this solution can be considered as an exact solution of FFLFP problem.

Finally we show that advantages of the proposed method over the existing method.

This is organized as follows. Some basic definitions and notations are present in section.

We discuss the LFP problem. We present out proposed method. A real life example is provided to validate the proposed method.

### Preliminaries: -

We have presented some basics concept of fuzzy triangular number, which was very useful in this paper.

Definition: - 0.1 Let X denotes a universal set.

Then a fuzzy subset 🚡 of X is defined by Its membership function was a select j, which assigned a real number  $\prod_{x \in (x)} \inf \text{the interval } [0.1]$ to each element x x x where the values of

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* T(x )at x shows the grade of membership of X in au can be characterized as a set of ordered pairs of element x and grade  $_{*}$   $\overline{\chi}$  (x ) and is often written.

 $\bar{\Lambda} = \{x_{\mu} \bar{\lambda}(x)\}_{x \in X}$  is called Fuzzy se.

Definition :- 0.2 A fuzzy number  $\frac{1}{\lambda}$  = (b, c, a) is said to be a triangular fuzzy number if its membership function is given by

$$L_{\frac{1}{2}}(X) = \frac{\frac{X-1}{(g-h)}, h \leq X \leq g}{\frac{X-4}{(g-h)}, d \leq X \leq g}$$

Definition: 0. 3 Two triangular Fuzzy number

$$\overline{A} + (b, c, a)$$
 and  $\overline{B} = (c, f, d)$ 

Definition: 0.4

A ranking is a function  $R : F(R) \rightarrow R$ where F (R) is a set of fuzzy number defined on set of real numbers, which maps each fuzzy number into the real line, where a natural order exists :

Let T-6 (1) is a triangular fuzzy number then

### Definition 0.5

Let  $\overline{A}(b) = \overline{B} = (c, f, a)$  be two triangular fuzzy numbers then:

- $A + B = \{b \in a\} + \{e, f, d\} = \{b + e, c + f, a + d\}$
- A-18-16.c. a j-le f.dj=16-d,c-f,a-ej
- If = (b, c, a) be any triangular fuzzy number and  $\frac{1}{H}$  = (e, f, d) be a non-negative triangular fuzzy number then,

$$\overline{A} \times \overline{B} = \overline{AB} = \begin{cases} (be, cf, ad) & \text{if } b \ge 0 \\ (bd, cf, ad) & \text{if } c < 0 \end{cases}$$
  

$$(bd, cf, ad) & \text{if } c < 0 \end{cases}$$

• Definition : 0.6 Let  $\overline{A} = (b, c, \pi), \overline{B} = (c, \ell, d)$  be two triangular fuzzy numbers. We say that  $\frac{1}{\lambda}$  is relatively less than  $\frac{1}{n}$  . If and only if

$$b = e \text{ and } (b-c) > (e-f)$$

$$b = e$$
,  $(b-c) = (e-f)$  and  $(a+b) = (d+e)$ 

Note: It is clear from the definition

That, b = e1 (b-c) = (e-f) and (a+b) = (d+e)

IF and only if  $\overline{A} = \overline{H}$ .

* Linear Fractional Programming :-

The general from of LFp may written as

$$\frac{c^2z+q}{d^2z+z} = \frac{F(Z)}{O(Z)}$$
 Subject to:

Where Z, c', s'ex-and AeR***.a.BeR ..... (I)

For some values of Z, G (Z) may be equal

to zero,

To avoid such cases, one requires that either

$$[Z \ge 0, AZ \le \ge b, \Rightarrow G(Z) > 0]$$
 OR

$$[Z \ge 0, AZ \le = \ge b, \Rightarrow G(Z) < 0]$$

For satisfaction we assume that (1) satisfies the condition that :

$$[Z \ge 0, AZ \le \ge b, \Rightarrow G(Z) > 0] \dots$$
 (II)

Theorem : Assume that no point (x, 0) with x ≥0 is feasible for the following linear programming (LP)

### Problem:

$$Max c'x + q'$$

$$d'x + rt = 1$$

$$Ax-bt=0$$

$$t \ge 0, x \ge 0$$

....III Now assume that the equation (II) then the LFp(I) us equivalent into linear programming problem (III)

# Fully Fuzzy linear Fractional programming problem:

Linear fractional programming problem is evidently an uncertain optimization problem due to its variations in the maximum daily requirements.

So the amount of each product of ingredient Fuzzy linear fractional programming problem where all the variables and all the parameters are triangular fuzzy numbers to avoid uncertain.

Let us consider a general format of fully Fuzzy linear fractional programming problem as

$$\text{Max} \overline{Z} = \frac{\overrightarrow{c} \cdot \widetilde{x} + \overrightarrow{q}}{\overrightarrow{d}^2 x}$$

5.tAx≤h......

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Consider that Let x' = (x', y', z')can be optimal consider of this FFLFP. Furthermore let all the parameters x, c, q, d, r, h and z are represented by triangular fuzzy numbers.

(x, y, z) , (p, q, r),

 $(x_1, y_2, y_3)$ (u, v, w) $(\beta_1, \beta_2, \beta_3)$  $(b_1, b_2, b_3)$ and  $(z_1, z_2, z_3)$ respectively. Then we can rewrite the mentioned FFLFP as follows:

Max 
$$(z_1, z_2, z_3) = \frac{(p, q, r) + (x, y, z) + (a_1, a_2, a_3)}{(u, v, w) + (x, y, z) + (\beta_1, \beta_2, \beta_3)}$$

Subject to

(b, c, a) + 
$$(x, y, z) \le (b_1, b_2, b_3) (x, y, z) \ge 0$$
• Numerical Example :

In Jamshedpur city, India A wooden company is the producer DF two kinds of products A and B with profit around (5, 1, 3) and around (4, 1, 6) dollar per unit respectively. However, the cost for each one unit of the above product is around (4, 6, 5) and around (6, 3, 9) dollars respectively. It is assume that a fixed cost of around (1, 2, 6) dollar is added to the cost function due to expected duration through the process of production.

Suppose the raw material needed for manufacturing product A and B is about (3, 2, 1) units per pound and about (6, 4, 1) units per pound respectively the supply for this raw material is restricted to about (13, 5, 2) pounds. Man-hours per unit for the product A is about (4, 1, 2) hour and product B is about (6, 5, 4) hour per unit for manufacturing but total manhour available is about (6, 3, 9) hour daily. Determine how many products A and B should be manufactured in order to maximize the total profit.

This real life problem can be formulated to the following FLFP problem:

$$\frac{Max}{(4,6,5)(x_1,y_1,z_1)+(4,1,6)(x_2,y_2,z_2)}{(4,6,5)(x_1,y_1,z_1)+(6,3,9)(x_2,y_2,z_2)+(1,2,6)}$$

$$S.t(3,2,1)(x_1,y_1,z_1)+(6,4,1)(x_2,y_2,z_2) \le (13,5,2)$$

$$(4,1,2)(x_1,y_1,z_1)+(6,5,4)(x_2,y_2,z_2)\leq (6,3,9)$$

$$(x_1, y_1, z_1)(x_2, y_2, z_2) \ge 0$$

The problem is converted into the MOLFp

 $M_{0X} \left\{ \frac{5x_1 + 4x_2}{4x_1 + 6x_2 + 1} \cdot \frac{y_1 + y_2}{6y_1 + 3y_2 + 2} \cdot \frac{y_1 + y_2}{6y_1 + 3y_2 + 2} \right\}$ Subject to  $3x_1 + 6x_2 \le 13$ 

Subject to 
$$3x_1 + 6x_2 \le 1$$
.

$$2y_1 + 4y_1 \le 5$$

$$z_1\!+\!z_1\!\leq\!2$$

$$y_1 + 5y_2 \le 3$$
.

$$x_1, x_2, y_1, y_2, z_1, z_2 \ge 0$$

The problem is transformed into an equivalent multi objective linear programming problem as follows:

max Z=5x+4x

$$\max Z_2 = Z_1 + Z_2$$

$$\max Z_1 = 3x_1 + 6x_2$$

Subject to  $4y_1+6y_2+1 \le 1$ 

$$6z_1+3z_2+2t\leq 1$$

$$5x_1 + 9x_2 + 6t \le 1$$

$$3y_1 + 6y_2 - 13t \le 0$$

$$2z_1+4z_2-5t\leq 0$$

$$x_1 + x_2 - 2t \le 0$$
,

$$4y_1 + 6y_2 - 6t \le 0$$

$$z_1 + 5z_2 - 3t \le 0$$
,  
 $2x_1 + 4x_2 - qt \le 0$ ,

$$x_1, x_2, y_2, z_1, z_2 \ge 0$$

The problem can be written as follows:

$$\max Z = 5y_1 + 4y_2$$

$$\max Z_1 = 5y_1 + 4y_2 - z_1 - z_3$$

$$\max Z_1 = 5y_1 + 4y_2 + 3x_1 + 6x_2$$

$$4y_1 + 6y_2 + t - 6z_1 - 3z_2 - 2t \le 0$$

$$4y_1 + 6y_2 + 5x_1 + qx_2 + 6t \le 2,$$

$$3y_1 + 6y_2 - 13t \le 0$$

$$3y_1 + 6y_2 - 13t - 2z_1 - 4z_2 + 5t \le 0$$

$$3y_1+6y_2-13t+x_1+x_2-2t\leq 0$$
,

$$4y_1 + 6y_2 - 6t \le 0$$

$$4y_1 + 6y_3 - 6t - z_1 - 5z_2 + 3t \le 0$$

$$4y_1 + 6y_2 - 6t + 2x_1 + 4x_2 - qt \le 0$$

Solving the problem we get  $y_1 = 0.214$ ,  $y_2 = 0$ ,

30300

$$x_1 = 0$$

Problem as follows:

In this paper a new solving procedure

x =0.0160, =0.76 % =0.102=0.14 Hence the solution of the problem is  $x_1 = 1.07$ ,  $x_2 = 0.764$ ,  $x_3 = 0.96$ 

### Example:

In TATA Hospital Jamshedpur, India has two nutritional experiments with two products milk (glass) and salad (500 mg) with profit around 6 dollars and around 2 dollars per unit respectively. However, the cost for each one unit of the above product is around 1 and around 1 dollars respectively consider that a fixed cost of around 2 dollars as added to the cost function determine the maximum profit of these two products.

### Table Information of Example

No. of the last	arrigine.	Select SEE Free	Will Surrant reports
Stighted &			
THE REAL PROPERTY.		-	- 2

### Solution:

In this case let x, and x, to be the amount of units of vitamin A and calcium to be produced then the above problem can be formulated as :

$$Max. \quad \tilde{Z} = \frac{6x_1 + 2x_2}{x_1 + x_2 + 2}$$

Subject to: x+x s?

 $2x - bc \le 17$ 

x.x-≥0

Let  $\hat{x}_i = (y_i, z_i, x_i)\hat{x}_i = (y_i, z_i, x_i)\hat{x}_i = (z_i, z_i, z_i)$ 

### Now consider the coefficients

7+(3.73 \$ 37=(7.17.276+(4.6.8

 $\tilde{2} = (1, 2, 3)\tilde{3} = (2, 3, 4)$ 

1=(0,1,2). The problem can be as follows:

Subject

 $(0,1,2)x(y_1,z_1,x_1)+(0,1,2)x(y_2,z_2,x_2)\leq (3,7,11)$ to

 $(0.2.3)x(y_1,z_1,x_1)*(2.3.4)x(y_1,z_1,x_1)*(7.17.27)$ 

 $y_{1}, y_{2}, z_{1}, z_{2}, x_{1}, x_{2} \ge 0$ 

Then, we obtain the fuzzy optimal solution as:

 $\bar{x}_1 = (y_1, z_2, x_1) = 5.5, 7, 7$  and  $\bar{x}_2 = (y_2, z_2, x_2) = (0, 0, 0)$ 

And the optimal value of the problem as :

 $\widetilde{\mathbf{x}}_1 = (\mathbf{y}_1, \mathbf{z}_1, \mathbf{x}_1) = (3, 14, 4.6, 28)$ 

Conclusions:

has been suggested to solve the FFLFP problem Using charnes-cooper transformation method We transformed the fully fuzzy linear fractional programming problem into fully fuzzy linear programing problem. After that the fully Fuzzy linear programming problem is converted into its equivalent MOLp problem It is our belief that the proposed method for solution of FFLFP problem in real life problem as well as simple problem may be of considerable insert for mathematician working in this field.

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### Application to Cryptography Number of Theory Theoretic Functions

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#### ABSTRACT

Article Info

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The cryptography is the art of achieving security by enclosing messages to make them non Readable in Mathematics. A function domain is the set of natural numbers is called a number theoretic function. These types of functions having special importance in the discus some important number of theory in

Mathematics, Theoretic function,

Keywords: - The military, Lovers, diarists, the diplomatic corps, secret writing

functions Mobius function Theory of Numbers in Mathematics.

### I. INTRODUCTION

A cryptography comes from the Greek word which means it has a long and colorful history going back historically, four groups of people have used and contributed to the art of cryptography.

Out of the se the military has had the most important role and had shaped the field over the centuries by applying the cryptographic. Before discussing more about the cryptography some common terms used with the study of cryptography.

Let a function T (N) to give the number of positive integer divisors of any given positive integer n. such a function must be of very different from the functions usually studies in algebra or analysis for it depend in critical way not only upon the value of n, but also upon the standard representation of N.

If f (n) is an arithmetic function not identically zero such that f(m,n) = f(m).f(n) for every pair of positive integers m, n satisfying (m, n) = 1.then f(n) is said to be multiplicative function.

It f(m n) = f(m) f(n) whether m and n are relatively prime .may or may not equal to.1 then f (n) is said to totally multiplicative. It f and g multiplicative functions such that f(p) = g(P) for all primes p and all positive integers then (n) = g (n) for all positive integers  $\alpha$ .

#### II. CRYPTOGRAPHY

The art of devising the ciphers is called cryptography. Decryption: The process of converting ciphetext into plaintext is known as decryption or deciphering. Cryptanalysis: - The art of breaking the cipher is known as cryptanalysis.

Encryption: - The process of converting plaintext into cipher text is known as encryption or enciphering.

Cryptology: - The cryptography and cryptanalysis together are called cryptography

Ciphetext: - The coded message is known as the cipher text.

Plaintext: - The original message the is to be encrypted is known as plaintext.

Substitution Cipher Technique: - Substitution cipher technique characters of a plain text message are

replaced by other characters. Substitution cipher preserves the order of the plain text symbols but disguise some techniques using the substation cipher. Caesar cipher:- This substitution technique was first proposed by the Julius Caesar and so is named as Caesar cipher in this technique each alphabet in the message is replaced by the third forthcoming alphabet

Plaintext	A	В	С	D	E	F	G	H	Ι	J	K	L	M	Ν	0	p	Q	R	S	Т	U	V	W	X	Y	Z
Chiphertext	D	Ε	F	G	H	Ι	J	K	L	М	N	0	P	Q	R	S	Τ	U	٧	W	Х	Y	Z	A	В	С

in the series scheme.

Encryption with modified Caesar cipher: - The cipher text NKRRU LXOKTJ for the plain text message hello friend by replacing each alphabet of the original message by the next sixth alphabet in the sequence. On the other hand, decryption with modified Caesar cipher is not very simple. Each alphabet has 25 possibilities of replacement.

We have to test all these possibilities to get the original message. Now suppose theorginal message from the cipher text NKRRU LXOKTJ. We have to try all the 25 possible replacement for each alphabet in the cipher text.

### The steps as shown in the table:-

Cipher text replacement order (k)	N	K	R	R	U	L	X	0	K	T	J
1	0	L	S	S	V	M	Y	P	L	U	K
2	P	M	T	T	W	N	Z	Q	M	V	L
3	Q	N	U	U	X	0	A	R	N	W	M
4	R	0	V	V	Y	P	В	S	0	X	N
5	S	P	W	W	Z	Q	C	T	P	Y	0
6	T	Q	X	X	A	R	D	U	Q	Z	P
7	U	R	Y	Y	В	S	E	V	R	Α	Q
8	V	S	Z	Z	C	T'	F	W	S	В	R
9	W	T	A	Α	D	U	G	X	T	C	S
10	X	U	В	В	E	V	Н	Y	U	D	T
11	Y	V	C	С	F	W	1	Z	V	E	U
12	Z	W	D	D	G	X	J.	Α	W	F	V
13	A	X	E	Е	H	Y	K	В	X	G	W
14	В	Y	F	F	1	Z	L	C	Y	Н	X
15	С	Z	G	G	J	A	M	D	Z	I	Y
16	D	Α	н	Н	K	В	N	E	A	J	Z
17	E	В	I	I	L	C	0	F	В	K	A
18	F	С	J	J	M	D	P	G	C	L	В
19	G	D	K	K	N	E	Q	Н	D	М	С

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20	H	E	I	1	0	F	R	1	E	N	D
21	1	F	М	M	P	G	S	J	F	0	P
22	J.	G	N	N	Q	H	Т	K	G	P	F
23	K	H	0	0	R	I	U	L	Н	Q	G
24	L.	I	P	P	S	1	V	М	I	R	Н
25	M	J	Q	Q	T	K	W	N	J	S	I

Thus we obtain the plain text message HELLO FRIEND against cipher text NKRRU LXOKTJ from the table thus breaking the code with modified clear cipher is not as simple as was in Caesar cipher. Modified Caesar cipher is also not very secure. An attacker has only 25 possibilities to try out. An attacker just need the three information to break the code substitution technique is used encrypt the message. 25 possibilities to try. Language of plain text is English .thus by knowing the above information one can easily break the code produced by the modified Caesar cipher technique. Mono alphabetic cipher the main disadvantage with Caesar cipher technique is its predictability and brute force attack to break the code an attack is said to a brute force attack if an attacker attempts to use all possible permutation and combination for breaking the code for example in modified Caesar cipher there are only 25 possibilities for break-in the code and the attacker is assured of a success. The uniform substitution scheme for all the alphabets in a given text message but a random substitution scheme. In words in a given text message each A can be replaced alphabet B through Z each B can be replace by random alphabet like A,C,D the possibilities of permutations or combinations this scheme becomes hard to break.

Definition: -Positive Divisors: - For each positive integer n, Z (n) is the number of positive divisors of n including land n.

Where,  $\sum 1$  denotes the sum of as many 1,s as there are positive divisors of n.

Example (1) Evaluate  $\sum (12)$  and  $\sum (28)$ .

Solution: -Let, positive divisors of 12 are 1, 2, 3, 4, 6, and 12.

So,  $\Sigma$  (12) =1+2+3+4+6+12=28

The positive divisors of 28 are 1, 2, 4,7,14 and 28.

SO, 5 (28) =1+2+4+7+14+28=56

Theorem: - If f is a multiplicative function and 5 (n)

 $=\sum f(d)$  then S(n) is also multiplicative.

Proof: Let m, nbe relatively prime integers.

 $S(mn) = \sum f(d)$ 

 $= \sum f(d_1 d_2)$ 

 $=\sum f(d_1) f(d_2)$ 

 $= (\sum f(d_1)) (\sum f(d_2))$ 

= S(M)S(N).

Example: Evaluate T and  $\Sigma$  for N = 3000?

Solution:-Let, N= 3000

 $3000 = 2^3.3^1.5^3$ .

T(3000) = (3+1), (1+1), (3+1)

=4.2.4

= 32

 $\Sigma$  (3000) = (2⁴-1)/2-1, (3²-1)/3-1, (5⁴-1)/5-1

= (16-1)/1. (9-1)/2. (625-1)/4

= 15.4.156

= 9360

Mobius function the number of divisors is given.

F is a multiplicative function. = 9360.

Definition: - Function Euler: - The Euler function phi function is widely used number theoretic function represented by p(n) for n = 1we p(1) = 1 and when n > 1we define p(n) to be the mumble of positive integers less than n and relationally prime n.

Example: - The p(12) = 4 because the only positive integers less than 12 and relatively prime to 12are 1, 5,7,11.

Recurrence Functions: - The arithmetic function f (n) satisfies a linear recurrence or recursion

If 
$$f(n) = a$$
,  $f(n-1) + bf(n-2)$  for  $n = 2, 3 \dots$ 

Where, a, and b are fixed number which may be real or complex.

Integers square free: - A number a is said to be square free if 1 is the largest square dividing a.

Thus, a is square free if and only if the exponents take only the values o and 1.

In other words an integer > 0 is called square free if it is not divisible any square greater 1.

General form the general form of a square free integer is  $P_1 P_2 \dots P_n$  where each  $P_i$  are distinct primes.

Function: - The function 
$$p(n)$$
 as  $p(n) = p(1) + p(2) \dots + P(8)$ 

$$=\sum_{r=1}^{n} p(r)$$

It is known as symmetry function of p (n).

Example: 
$$p(8) = p(1) + (2) \dots + p(8)$$

$$P = 1+1+2+2+4+2+6+4 = 22$$

Integer function greatest: - If x is any real number then the largest integer less the or

Equal to x dented by (x) is the unique integer such that, x-1<(x), < x.

$$(5) = 5$$

$$(20/3) = 6$$

$$(-5/2) = -3$$

$$(p) = 3$$

$$(2//3) = 0$$

$$(e)=2$$

X=(x)+(x) where (x) is the fractional part of x.

Public key cryptography in mathematics: - The RSA algorithm is based on the asymmetric key cryptography, also called as public key cryptography. With public key cryptography there are two different keys for encryption decrypting public key cryptography requires the surety that each user must have two keys public key a public key is used by all the parties for encrypting the message to be sent to that user a private key a private key is used for decrypting the message private key is kept secret Suppose user X wants to send a message to user Y.X encrypts his message with the public key of user Y.

Sends this message to user Y. user Y decrypts the message of X by using Y. s private key only Y knows his private key. User-X-Encrypts text with user Y, s public key -cipher text -Decrypts the cipher text with Y, s private key -plaintext-User -SENDER-RECEIVER. RSA A algorithm The RSA algorithm is the most popular public key cryptography this scheme was developed by divest, Shamir and adleman. The RSA method is based on some pimples from Number Theory. The rsa scheme works.

Simple Columnar Transposition Technique:- In this technique, we write the plaintext message in a predefined size of rectangle row by row then we read the message column by column in any random order. The sequence of characters obtained in this manner will be cipher text message look at the suppose we decided the size of rectangle with seven columns and want to encrypt the plain text message simple columnar technique. Arrange this text into rectangle of seven columns.

C1	C2	C3	C4	Cs	C6	C7
S	I	M	P	L	E	C
0	L	U	M	N	A	R
T	E	С	Н	N	I	Q
U	E					

Now, we have to decide the random sequence of column readings suppose -4,2,6,7,1,3,5.by reading columns in the sequence we get the cipher text message.

PMH	ILEE	EAI	CRQ	SOTU	MUC	LNN
C1	C2	C6	C7	C1	C3	C5

This technique is also very simple to break crypt analyst has to try few permutations and combinations of rectangle size and column orders to get the original plaintext message cipher text also contains the frequencies of the alphabets as in original plaintext message diagram and trigram frequency sequence can also be useful to decrypt the message to add more complexity to the simple columnar transposition technique more than once.

The plaintext message N is assumed to be less than in the enciphering modulus so that it would be possible to distinguish n from any larger integer congruent to modulo the message is very lengthen and possible to handle a single integer the numeric form n of the plaintext is converted into cipher text R as a number the transmitted message the authorized person the user chooses an arbitrary positive integer is placed in a public file but the factors of n are kept secret.

Example: - Encrypt the message no using N=1415 RSA system?

Solution: - First convert plaintext number of the message is given by N = 1415

Let, p =19

q = 23

n = 19.23=437

p = (n) = (19-1)(23-1)

= 18.22

= 396.

Since, we require N < n we split Nin to blocks of two digits each given

 $N_1 = 14$ 

 $N_2 = 15$ 

K= 29

We, have

 $Ki == 1 \pmod{p(n)}$ 

 $29j \equiv 1 \pmod{396}$ 

This gives j = 41

Now, N: encrypts as  $14^{29} \equiv 203 \pmod{437}$ 

(203) 41 = 14 (437)

Thus the secret transmission of N is 203

The authorized recipient recovers calculating

(203)41 = (mod 437) N = =15

 $15 = -35 \pmod{437}$ 

= 402 (mod 437)

Thus secret transmission of Nzis402

Therefore cipher text is 203402.

RSA system to be safe it must not be computationally feasible to recover the plaintext from the public key the large is the enciphering modulus the safer is the message coded from deciphering. If d is a positive divisor of a positive integer m the number of integers in the complete residue system modulom, with m have the greaest common divisor d is we know that in completeresidue system modulo the multiples of dare of the for the number of k is p m/n. the fundamental theorem of arithmetic on being expressed in canoniccalform if d is any positive divisor of n the p d is equal to the value of one and only one term in the product rail fence technique is the simplest example of transposition cipher in the technique plaintext is written down as the sequence of diagonal and then read row by row to produce the cipher text for example to encrypt the message rail fence transposition manner.

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# A facile an efficient synthesis of [1,2,4]-triazolo-quinazolinone derivatives using citric acid under solvent free condition: An Eco-friendly protocol

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### Abstract:

An efficient and green protocol has been developed for the synthesis of [1,2,4] triazoloquinazolinone derivatives via the condensation of 3-amino-1,2,4-triazole as amine sources with dimedone or ethyl acetoacetate and various aromatic aldehydes in the presence of citric acid as a catalyst under solvent-free conditions. It is noteworthy advantages is environmental friendly protocol shows high to excellent yields, short reaction times and no need of chromatographic separation. Moreover, naturally green, low-cost, easily biodegradable and non-toxic catalyst made this protocol economic and sustainable.

**Keywords:** [1,2,4] triazoloquinazolinone, 3-amino-1,2,4-triazole, dimedone or ethyl acetoacetate, aromatic aldehydes

### Introduction

One pot multi-component reactions (MCRs) can be classified roughly as cascade, domino, or tandem reactions ¹⁻³. The development of one pot methods are important for growth of organic synthesis due to the less waste, atom-economy, operational simplicity, structural diversity, shortness of the synthetic pathway, eco-friendly save time and minimize cost ⁴⁻⁶. In pharmaceutical and agrochemical industries heterocyclic compounds containing nitrogen are played important role because of their potent physiological properties, which have resulted in numerous applications ⁷. Five and six-membered heterocyclic compounds are frequently studied owing to their diverse properties. So that there has been increasing interest in 1,2,4-triazoloquinazolinone and quinazolinones derivatives ⁸⁻⁹. Many of them show antihypertensive ¹⁰, antihistaminic ¹¹, analgesic and anti-inflammatory ¹², anticancer ¹³, and anti-HIV ¹⁴ activities.

Because of their importance in a pharmaceutical, industrial, and synthetic point of view, a few methods are reported for their preparation in literature. These include a three-component condensation of dimedone, various aldehydes with 3-amino-1,2,4-triazole in the presence of Nafion-H^{®15}, molecular iodine¹⁶, Amberlyst-15[®] in PEG¹⁷, DMF¹⁸, H₆P₂W₁₈O₆₂. 18H₂O¹⁹, acetic acid²⁰, 1-nbutyl- 3-methylimidazolium tetrafluoroborate ([Bmim] BF₄)²¹, [DABCO](SO₃H)₂Cl₂ and [DABCO](HSO₃)₂(HSO₄)₂²², p-toluenesulfonic acid monohydrate²³, sulfonic acid functionalized nanoporous silica (SBA-Pr-SO₃H)²⁴, anthranilic acid²⁵, Sulfamic acid²⁶.

However, many of these methods suffer from some disadvantages such as requirement of strong acidic conditions, expensive reagents, and low to moderate yields, requirement of excess amounts of reagent and use of toxic reagents, relatively long reaction times and high temperature. Therefore, there is a strong demand for the development of highly efficient, clean, high yielding and environmentally friendly approaches is desirable.

Use of naturally as well as easily available and biodegradable catalyst for organic transformation is acquire most of the significance in the last few years as a result of both the novelty of the concept and more importantly, the fact that the efficiency and selectivity of these reactions meet the standards of established organic reactions. In this point of view, Citric acid keeps the potentially performing the role of ideal catalyst. It is a relatively strong organic acid. Citric acid and its salts are widely used because they are nontoxic, relatively non-corrosive, safe to handle, and easily biodegradable. There are reports in the literature on the use of Citric acid as catalyst in organic synthesis.

### Experimental

All chemicals and reagents are purchased from Sigma Aldrich, Alfa asar, S.D. fine and Spectrochem. All commercially available reagents used without further purification and the reaction were monitored by thin layer chromatography (TLC) Merck 60  $F_{250}$  silica gel plates. Synthesized compound melting points were recorded by open tube capillary method and are uncorrected. ¹H and ¹³C NMR spectra were recorded using 500 and 125 MHz Bruker spectrophotometer respectively in DMSO solvent with TMS as a internal standard. Chemical shift values ( $\delta$ ) were expressed in parts per million (ppm) and coupling constant (J) are expressed in Hertz (Hz). Mass spectra were recorded on a macro mass spectrometer, applying electro-spray ionization (ESI) method.

General procedure for the synthesis of [1,2,4]triazolo[5,1-b]quinazolin-8(4H)-ones and [1,2,4]triazolo[1,5-a]pyrimidine-6-carboxylate

A mixture of 3-amino-1,2,4-triazole (1.0 mmol), aromatic aldehyde (1.0 mmol), dimedone (1.0 mmol) or ethyl acetoacetate (1.0 mmol) was taken in a round bottom flask and added citric acid (15 mol %) and condensed at 90-100 °C for 5-15 min. After completion of the reaction, was monitored by TLC and then ice cold water poured into the reaction mixture. Solid residue separated by filtration and washed with water and dried at reduced pressure.

6,6-dimethyl-9-(4-nitrophenyl)-5,6,7,9-tetrahydro-[1,2,4]triazolo[5,1-b]quinazolin-8(4H)one (4d)

Pale yellow crystal, Yield: 94%, melting point: 3002-302 °C. IR (KBr): 2962, 1545, 1336, 1253, 732 cm⁻¹. ¹H NMR (DMSO-D₆, 400 MHz): δ 11.31 (s, 1H), 8.17 (d, *J* = 8Hz, 2H), 7.74 (s, 1H), 7.50 (d, *J* = 8Hz, 2H), 6.37 (s, 1H), 2.57 (d, *J* = 16Hz, 1H), 2.50 (d, *J* = 16Hz, 1H), 2.21 (d, *J* = 16Hz, 1H), 2.07(d, *J* = 16Hz, 1H), 1.05 (s, 3H), 0.96(s, 3H). ¹³C NMR (DMSO-D₆, 100 MHz): δ 27.45, 28.78, 32.72, 50.17, 58.01, 105.24, 124.06, 128.97, 147.33, 147.43, 148.90, 150.92, 151.48, 193.52;

ESI-MS: m/z 340 [M+H] .

### Result and Discussion

In order to optimize the reaction conditions, model reactions of 3-amino-1,2,4-triazole 1, benzaldehyde 3 and dimedone 2 or ethyl acetoacetate 5 were carried out in the presence of citric acid catalysts. We have initially investigated the amount of catalyst required for this organic transformation. While there was did not any desired product form in the absence of the catalyst, when the same reaction was carried out in the presence of citric acid catalyst under similar reaction conditions, brought about a dramatic change in the yield and optimize the reaction conditions. During this study, we observed that 15 mol% of citric acid was proved to be an efficient catalyst to conduct the reaction smoothly (Table 1 Entry 5).

We also determined the effect of temperature on this reaction (Table 1). During the examination, it was found that the optimum temperature was 100 °C from the point of view of yield and reaction time (Table 1 Entry 5). Further, no improvement on the yield and reaction time was observed at higher temperatures. On the other hand, the reaction did not proceed at room temperature (Table 1 Entry 1). The reaction proceeded smoothly and almost complete conversion of the reagent was observed at 100 °C temperature.

Entry	Amount of catalyst mol%	Temperature ⁶ C	Time (min)	Yield ^b %
3	医	R.T.	120	Trace
2	2	30	60	25
3	5	60	40	50
4	10	90	20	80
5	15	100	10	94
6	20	120	10	94

Table-1 Optimization of catalyst and temperatures³

To explore the scope of the procedure, we extended this reaction for the synthesis of [1,2,4]triazolo[5,1-b]quinazolin-8(4H)-one derivatives from various substituted aromatic aldehydes were reacted with 3-amino-1,2,4 triazole and dimedone or ethyl acetoacetate in the presence of citric acid catalyst and solvent free reaction conditions 4a-i. Aromatic aldehyde bearing electron-withdrawing (NO₂, Cl) and electron-donating (Me, OMe) substituents were converted to [1,2,4]triazolo[5,1-b]quinazolin-8(4H)-one derivatives in good to excellent yields within 5-15 min. All the entire results summarized in Table 2 and Table 3 show that the substituent groups did not play any significant role in the reactivity of the substrate.

Scheme 1

^{*}Reaction conditions: Dimedone (1 mmol), Aromatic aldehydes (1 mmol), 3-amino-1,2,4 triazole (1 mmol), Citric acid under solvent free conditions. *Isolated yield.

Table-2 synthesis of 1,2,4-triazoloquinazolinone derivatives using citric acid under solvent free conditions⁸

Entry	Aldehyde	Time (min)	Yield ^b (%)	Melting point °C
4a	C ₆ H ₅ -CHO	10	94	250-252
4b	4-CH ₃ O-C ₆ H ₄ -CHO	8	93	224-226
4c	4-Cl-C₅H₄-CHO	7	94	302-303
4d	4-NO ₂ -C ₆ H ₄ -CHO	9	94	300-302
4e	4-Br C ₆ H ₄ -CHO	12	90	284-286
4f	2,4-Cl ₂ -C ₆ H ₄ -CHO	15	88	322-324
4g	3-NO ₂ -C ₆ H ₄ -CHO	10	92	265-266
4h	4-Me-C ₆ H ₄ -CHO	8	92	264-266
4i	4-OH C ₆ H ₄ -CHO	10	90	304-306

^{*}Reaction conditions: Dimedone (1 mmol), Aromatic aldehydes (1 mmol), 3-amino-1,2,4 triazole (1 mmol), Citric acid (15 mol%) under solvent free conditions at 90-100 °C. *Isolated yield.

Table-3 synthesis of 1,2,4-triazoloquinazolinone derivatives using citric acid under solvent free conditions^a

Scheme 2

Entry	Aldehyde	Time	$Yield^b$	Melting point
		(min)	(%)	°C
ба	C ₆ H ₅ -CHO	10	94	191-192
6b	4-Cl-C ₆ H ₄ -CHO	5	95	252-254

6c	4-NO ₂ -C ₆ H ₄ -CHO	5	94	256-258
6d	3-NO ₂ -C ₆ H ₄ -CHO	7	92	208-210
6e	4-OH C ₆ H ₄ -CHO	8	90	272-275

*Reaction conditions: Ethyl acetoacetate (1 mmol), Aromatic aldehydes (1 mmol), 3-amino-1,2,4 triazole (1 mmol), Citric acid (15 mol%) under solvent free conditions at 90-100 °C.

*Isolated yield.

In order to understand the efficiency and greenness of the method, we compared our present work with reported data from the literature. As shown in the **Table 4**, many of the previously reported methodologies suffer from some drawbacks such as requirement of excess amount of catalyst and strong acidic conditions, high temperature, ultrasound irradiation, relatively long reaction times, and use of volatile and toxic organic solvents. Thus, the present method avoids the disadvantages of the previously reported methodologies.

The possible mechanism for the citric acid catalyzed transformation is shown in Schemes 3. In regard to reaction mechanism, we suggest that initially, the solid acid catalyst protonates the carbonyl group of aromatic aldehyde, which then condenses with dimedone to produce the intermediate product 7. Michael addition reaction takes place undergoing more nucleophilic endocyclic nitrogen attack in the 3-amino-1,2,4-triazole 1 to α, β-unsaturated carbonyl compound 7 creates acyclic intermediate 8. Due to, the endocyclic nitrogen is more nucleophilic than the primary amino group 32-33. Further intermediate 8 undergoes intramolecular cyclisation followed by loss of water molecule giving rise to corresponding triazolo-quinazolinones derivatives 4

Table 4 comparison study of the efficiency of various catalyst with citric acid for the synthesis of [1,2,4]-triazolo[5,1-b]quinazolin-8(4H)-ones derivatives

Entry	Catalyst / condition	Time	Yield (%) ^b [Ref.]
1	Acetic acid (5 mL)/ 60 °C	25 min	95 [20]
2	Anthranilic acid(30 mol%) / Ethanol, Reflux, 80 °C	6 h	95 [25]
3	p-TsOH.H ₂ O (15 mol%)/CH ₂ CN, 40-50 °C	30 min	96 [23]
4	Iodine (10 mol %)/ reflux	10 min	81.2 [16]

5	NH ₂ SO ₂ H/CH ₃ CN, reflux, 80 °C	30 min	95 [26]
6	$H_6 P_2 W_{18} O_{62} .18 H_2 O/\ CH_3 CN, 80\ ^{\circ} C$	30 min	95 [19]
7	Citric acid (15 mol%)/ solvent free, 90-	7 min	94 present work
	100 °C		

### Conclusion

In summary, green protocol has been developed for the synthesis of 1,2,4triazoloquinazolinone derivatives using citric acid from the reaction of cyclic substituted1,3diketone or ethyl acetoacetate, 3-amino 1,2,4-triazole and aromatic aldehydes under solvent
free conditions at 100 °C. Present methodologies have several advantages such as easily
biodegradable catalyst, eco-friendly, inexpensive catalyst, highly efficient, high yield, safe to
handle and no need of chromatographic separation.

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## Ionic Liquid Ethyl Ammonium Nitrate (EAN): An Efficient Catalyst for the Synthesis of Dipyrromethane under Room Temperature

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#### ABSTRACT

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A simple, convenient efficient and eco friendly one-pot synthesis of dipyromethane derivatives using ionic liquid i.e. ethyl ammonium nitrate by the reaction of aromatic aldehydes and pyrrole was reported. Short reaction time, room temperature solvent free reaction condition, high yields and

environmental friendliness are the main advantages of this method.

Keywords: Dipyrromethane, Aromatic aldehydes, solvent free

### Article History

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### I. INTRODUCTION

The development of a chemical reaction which eliminates to reduce the hazardous products through the chemical reaction is known as the green chemistry [1-2]. In order to achieve this goal various synthetic organic chemists are working in this area for the development of efficient transformation reaction. Environment friendly catalyst and solvent free reactions these are the important aspects for the synthesis in an organic chemistry [3-5]. High yield, low reaction cost and eco-friendly these the main advantages of the solvent free reactions. In this context, several organic chemists are in this field of green chemistry to develop the best route in the

organic reactions using solvent-free reaction conditions at room temperature [6-8].

Several porphyrins and porphyrin analogues which are widely used in several areas were synthesized by using the dipyrromethanes as a starting compound. It is also well known that the pyrrole chemistry is closely associated with the natural products [9-11]. In this regard several efforts have been taken by the researchers to develop the dipyrromethanes using aldehydes and pyrrole [12-15]. Moreover, the reported methods till this date are having several disadvantages like expensive catalyst, toxic solvent, long reaction time etc.

Thus the present work deals with the successful synthesis of substituted dipyromethanes using ionic liquid i.e. ethyl ammonium nitrate (EAN) by the reaction of aromatic aldehydes and pyrrole. The results show the improved the quantum efficiency of the reaction.

#### II. EXPERIMENTAL

All solvents and chemicals which are used in this reaction are of analytical grade quality without any purification and were produced from sigma-aldrich. The progress of the reaction was monitored through thin layer chromatography using silica gel coated aluminium sheets. Melting points were measured by an open capillary tube method and are uncorrected. H1 NMR was carried out Bruker AMX-500 MHz spectrometer at 500MHz, IR spectra recorded from KBr disk on the Nicolet Nexus FTIR 670 spectrophotometer.

### Typical procedure for the synthesis of dipyrromethane derivatives using EAN as a catalyst at room temperature-

The mixture of aromatic aldehyde (1mmol), pyrrole (2mmol) and 7mmol% EAN was taken in a round bottom flask and stirred it for 30 minutes on magnetic stirrer. The progress and completion of the reaction was monitored through thin layer chromatography using silica gel coated aluminium sheets. Recrystallization method was used to purify the product using ethyl alcohol as a solvent to get products (3a-k). All the compounds were synthesized, characterized and compared using their data in literature.

### Spectroscopic Data for representative and newly synthesized compounds is listed below:

3a: Pale yellow solid, m.p. 96-99°C; H¹ NMR (500 MHz) δ: 6.71 (s, 1H), 6.03 (s, 2H), 5.95 (q, *J*=3.3 Hz, 2H), 7.75 (t, *J*=3.3 Hz, 2H), 6.80-6.90 (m, 5H, ArH), 8.05 (s, 2H, NH); IR (KBr) v: 3355, 3105, 1605, 1495, 1507, 1305, 997, 690, 670 cm⁻¹.

3d: Light Yellow solid, m.p. 121-123°C; H¹ NMR (500 MHz) δ; 3.24 (s, 6H), 4.93 (s, 1H), 6.20 (s, 2H), 5.92 (q, J=3.1 Hz, 2H), 7.11-7.22 (m, 4H), 8.40 (s, 2H, NH); IR (KBr) v: 3386, 3102, 1706, 1594, 1560, 1512, 1259, 988, 764 cm².

3g: Light brown solid, m.p. 174-177°C; H¹ NMR (500 MHz) δ: 6.63 (t, *f*=3.1 Hz, 3H), 7.23 (q, *f*=3.4 Hz, 2H), 7.11 (d, *f*=2.3 Hz, 2H), 8.23 (q, *f*=2.3 Hz, 2H), 8.49 (t, *f*=6.9 Hz, 1H), 8.30 (d, *f*=8.1 Hz, 1H), 8.50 (s, 2H, NH); IR (KBr) v: 3242, 2944, 1752, 1746, 1344, 1352, 988, 659 cm⁻¹.

3k: Light yellow solid, m.p. 84-86°C; H¹ NMR (500 MHz) δ: 3.95 (s, 2H), 6.12 (s, 2H), 5.94 (q, *J*=3.1 Hz, 2H), 7.01 (q, *J*=2.5 Hz, 2H), 8.10 (s, 2H, NH); IR (KBr) v: 2995, 3113, 1614, 1511, 1395, 1112, 997, 823, 691 cm².

### III. RESULTS AND DISCUSSION

The dipyrromethane derivatives were synthesized by the condensation of mixture of aromatic aldehyde (1mmol), pyrrole (2mmol) and 7mmol% EAN as a catalyst. The products (3a-k) obtained were purified by recrystallization method using ethyl alcohol as a solvent. Several lewis, bronsted acids and ionic liquids were studied were by different researchers till this date. The EAN gives remarkable results during the synthesis of dipyrromethanes derivatives at room temperature. The effect of the catalyst concentration was also studied. The 7 mmol% was observed as an optimum concentration of the catalyst for the successful formation of the product. It is also observed the aromatic aldehyde with withdrawing group shows the enhanced yield. In this regard the EAN acts as an efficient reaction for this green reaction.

Table 1 Effect of the catalyst concentrationa

Entry	EAN (mmol%)	Yieldb
1	3	82.3
2	7	91.2
3	10	86.4
4	15	83.4
5	20	79.9

Note- Bold values indicate optimized condition a Reaction condition: 1a(1mmol) and 2(2mmol), rt b Isolated yield

Scheme 1: Synthesis of dipyrromethane derivative Table 2

I BOIC L	
EAN catalyzed synthesis	of dipyrromethane -

liney	Alektron (I)	N. Yield
34	Ÿ	81.3
e#E	Ş	81:
(ag)	Ģ	0.5
34	5	88.4
1,94	5	36.6
at	5	11.3
9 <b>;</b>	5	84
34	Ģ.	81.8
31	ä.	11.5

alsolated Yields.

### IV. CONCLUSION

In conclusion we have developed an eco-friendly protocol for the synthesis of dipyrromethane derivatives by using aromatic aldehydes and pyrrole in the presence of EAN as a catalyst. Short reaction time, low cost, high reaction yield and room temperature reaction these are the advantages of this procedure.

#### V. ACKNOWLEDGMENT

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## An Efficient and Reusable Succinimide-N-Sulfonic Acid Catalyst for the Synthesis of Benzimidazole at Room Temperature

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### ABSTRACT

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A facile an efficient protocol has been developed for the synthesis of benzimidazole from condensation reactions of o-phenylenediamines with aromatic aldehyde in presence of Succinimide - N - sulfonic acid (SuSA) as an

efficient, cheap and reusable catalyst under mild reaction conditions.

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### I. INTRODUCTION

The chemistry and biological study of heterocyclic compounds has been an interesting field for a long time in medicinal chemistry. A number of heterocyclic derivatives containing nitrogen and sulphur atom serve as a unique and versatile scaffolds for experimental drug design [1]. The benzimidazole moieties are usually present in a large number of natural products in addition to pharmacologically active compounds [2]. It shows a wide range of biological and pharmacological properties such as antifungal [3], antimicrobial [4], anthelmintic [5, 6], antiviral [7, 8], topoisomerase inhibition [9] and

anticancer activities [10]. A number of their derivatives are marketed as antifungal drug (Carbendazim) [11], anthelmintic drug (MebendazoleandThiabendazole) [12], antipsychotic drug (Pimozide) [13] and antiulcer agent (Omeprazole) [14]. Due to their attractive pharmacological properties, huge attention has been paid to the synthesis of benzimidazoles.

Because of their wide range of synthetic, industrial and pharmacological application, many methods for the preparation of benzimidazole are reported in the literature. The most common method is direct condensation of 1,2-phenylenediamine and carboxylic acids [15, 16] or their derivatives [17], that

require strong acidic conditions and sometimes need high temperature or the use of microwave [18].In recent years, solvent-free synthesis of benzimidazoles under microwave irradiation using Yb(OTf)3 [19], KSF clay[20], PPA[21], Na₂SO₄ [22], K-10 clay[23], metal halide supported alumina[24] and solid support[25] have been reported.

However, a variety of catalysts have been reported for the synthesis of 2-aryl benzimidazole most of them suffer from disadvantages such as long reaction times, forceful conditions, low yields, low selectivity, tedious workup, and use of toxic or expensive reagents. Consequently, a new procedure that avoids these drawbacks is desirable. We report herein an efficient, low cost and environmentally benign protocol for the synthesis of benzimidazole using reusable SuSA catalyst under mild reaction condition.

### II. METHODS AND MATERIAL

All purchased chemicals were of analytical grade and used without further purification. Silica gel coated aluminum sheets (Merck made) were used for thin layer chromatography (TLC) to monitor progress of reactions. Melting points were determined in an open capillary tube and are uncorrected. 4H NMR spectra were recorded using DMSOas solvent and TMS as internal standard at 300 MHz on BruckerAvance spectrophotometer. All the products characterized by IR spectral data and comparison of their melting points with those reported in literature and found to be identical. Also, the some products were confirmed by ¹H NMR spectral data.

### Preparation Succinimide-N-sulfonic acid:

SuSA was easily prepared by addition of an equivalent amount of cholorosulfonic acid to succinimide (Su) 28,

### General procedure for the Synthesis of 2-aryl benzimidazole:

SuSA (15 mol %) was added to a stirred solution of the aldehyde (1 mmol) and o-phenylenediamines (1 mmol) in acetonirile (3 ml), and the mixture was stirred at room temperature for appropriate time (Table 1). After completion of the reaction monitored by TLC, the solvent was removed under reduced pressure and ethyl acetate (5 ml) was added, and the catalyst was recovered by filtration and washed with ethyl acetate (5 ml). The filtrate was washed with water and then dried over anhydrous Na₂SO₄. Evaporation of the solvent under reduced pressure gave the highly pure product obtained. Further recrystalization was done in ethyl alcohol.

Selected spectral data:

# 5-methyl-2-(4-nitrophenyl)-1H-benzimidazole (Table 2, entry 3c)

IR(KBr pallets):Vmax3109, 1605, 1511, 1463, 1354, 1176, 739, 701 and 657 cm⁻¹; ¹H NMR (300 MHz, DMSO-d6):δ 8.39 (s, 4H+1H, overlapped Ar-H and N-H), 7.54 (d, J = 8.0 Hz, 1H, Ar-H), 7.43 (s, 1H, Ar-H), 7.09 (d, J = 8.3 Hz, 1H, Ar-H) and 2.44 (s, 3H, -CH₃): ¹³C NMR (75 MHz, DMSO-d₅):δ 159.0, 153.6, 143.2, 136.3, 131.0, 129.3, 127.9,119.4, 114.7, 114.6, 111.5 and 31.1. Mass (EI, m/z): 254 [M⁺].

Scheme 1: Synthesis of benzimidazoles

### III. RESULTS AND DISCUSSION

To explore the use of SuSA as a catalyst for the reaction of benzaldehyde and o-phenylenediamines for the preparation of 2-arylbenzimidazole compound 3a was considered as a standard model reaction (Table 2). Model reaction in the absence of catalyst did not led to desired product formation. It means interference of catalyst was must for initiation of the reaction. To determine exact requirement of catalyst for the reaction, we used model reaction at different

concentrations of SuSA (Table 1). During this study, we observed that, 15 mol% catalysts proved to be an efficient catalyst to carry out the reaction smoothly. Encouraged by this result, in further set of experiments, in order to build the generality of the reaction, variety of aromatic aldehydes with either electron-donating or electron-withdrawing groups were converted to 2-arylbenzimidazoles derivatives in good to excellent yields. All the results are summarized in Table 2.

Table 1 Optimization of the catalyst

Entry	Catalyst (mol %)	Isolated Yield %
1	<del></del>	Trace
2	5	55
3	10	80
4	15	92
5	20	92

Table 2 Synthesis of 2-arylbenzimidazole in the presence of SuSA*

Entry	Aldehydes	Time (min.)	Yield ¹ (%)
3a	_be	65	91
3b	HC CIO	55	90
3c	G₂N√	52	92
3d	~~~	55	92
Зе	на	75	85
3f	)—(~)—«	75	88
3g	<b>~</b>	60	88
3h	B	60	90

*Reaction conditions: Aromatic aldehydes (1 mmol), o-phenylenediamines (1 mmol), SuSA (15 mol%) at room temperature. Isolated yield

#### IV. CONCLUSION

The Bronsted acid SuSA is a catalyst that has high efficiency in the synthesis of benzimidazoles. The reaction of the condensation of aromatic aldehyde with o-diphenylamines in acetonitrile as a solvent at room temperature gave maximum yields. The present protocol has numerous advantages such as high reaction rates and excellent yield, ease of preparation and handling of catalyst, inexpensive with lower loading and a simple experimental procedure.

#### V. ACKNOWLEDGMENT

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# Antibacterial and X-ray Diffraction Study of Cr(III) and Fe(III) metal Complexes of Thiosemicarbazone Ligand

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#### Abstract

Comparative study of X-ray diffraction patterns of transition metal complexes like Cr (III) and Fe (III) of Thiosemicarbazone is carried out. These metal complexes has different crystal system and their x-ray diffraction studies also used for determination of various parameters such as unit cell volume and miller indices values like h, k and l. Antibacterial screening also done of these metal complexes and ligand in comparison with standard drug ciprofloxacin.

Keywords: N-4-Ethyl, propyl thiosemicarbazone, X-ray diffractogram, Biological Screening.

#### Introduction

Thiosemicarbazones constitute important class of drugs with several types of pharmacological actions.[1] A series of metal complexes of Cr(III) and Fe(III) with (E)-1-(2-Hydroxybenzylidene)-4-ethyl,propyl thiosemicarbazone (LH) have been synthesized and successfully characterized using various spectroanalytical techniques. The molecular structure of metal complexes was determined by X-ray diffraction studies. Additionally, ligand (LH) and all the complexes screened against antibacterial strains. Complexes were most effective against bacteria (Staphylococcus aureus and Bacillus substilis) which are compared with standard (Ciprofloxacin). The complex forming nature of transition metal complexes with thiosemicarbazones shows antitumor activity [2,3] Thiosemicarbazone metal complexes exhibit characteristic important properties and potential biological activities. [4-8]

The X-ray diffractogram of complexes were recorded in the range of 5-80° 20 value. The wavelengths are important part of crystal system of complexes to determine the peak position, miller (h,k,l) value, unit cell parameters and 20 value with d radiation source of CuKα by used as X-ray diffractometer range.[9,10]

### Materials and Methods

All the chemicals used were as AR grade obtained from commercial source.

Synthesis of Schiffs Base Ligand: The Schiff's base ligand (E)-1-(2-Hydroxybenzylidene)-4-ethyl,propyl thiosemicarbazone prepared by modifying reported method of scovil.[11]

Synthesis of Metal Complexes: Hot ethanolic solution of (0.01mmol) of metal salt is mixed with (0.02mmol) of solution of (E)-1-(2-Hydroxybenzylidene)-4-ethyl, propylthiosemicarbazone (LH). The reaction mixture is refluxed for 4-5 hours and allows keeping for 3-4 hours at R.T and decomposes above 300°C.

#### Results and Discussion

NMR Spectral Data:

The experimental assignments of the IR spectral bands to confirm the structural identity of the ligands and its metal complexes. The H-NMR spectra of Thiosemicarbazone showed one proton signal at 8.4-8.9 ppm which corresponds to azomethine linkage formed by reaction in between Salicyaldehyde and N-4 disubstituted thiosemicarbazide. It confirms the formation of Thiosemicarbazone. The H-NMR assignments are in good agreement with the values already reported.[12,13,14]

The observed NMR signals are phenolic –OH. (11.79) (s), -C=N+ (8.96) (s), -NH (11.06) (s), Aromatic protons 6.8-7.3 (m), -CH2- (3.7) and –CH3 1.09 (t), -CH2-(1.01) (m).



### IR Spectral Data:

The IR spectral bands confirm the structural identity of Ligand and its metal complexes. According to coordination to ligand to metal ion IR spectra of ligand shows ligand should be in thione form. A sharp v (N-H) band observed at 2976cm-1 for ONS donor ligands. A sharp v (C=S) and low intensity δ (C=S) band observed in ligand at 1276 cm-1 while in metal complexes it is in the range of 1240-1270 cm-1 and 700-753 cm-1. Ligand shows v (-OH) band at 3220 cm-1 due to intramolecular hydrogen bonding. Bands in the range of 420-440 cm-1 due to M-O, M-N and M-S bonding.

V (C=N) Ligand/complex v (-OH) v (N-H) v (C=S) v (C-O) M-N M-O 3220 2976 1538 1276,753 1186 Cr(III) 1575 1276,701 1203 458 582 489 Fe(III) 1597 1291,707 1206 414 521 485

Table 1: FTIR Spectral data of ligand and its metal complexes in (cm-1)

### X-Ray Diffraction study:

X-ray diffraction study of metal complexes gives probability related to the structure of complexes. The diffractogram of metal complexes were recorded in the range of 0-80° 20 value and wavelength of 1.5405Å. Major refluxes were calculated and related values were determined by using Bragg's equation. All major reflections were indexed for h,k,l values using reported method.[15] Cr (III) complex having triclinic crystal system while Cr(III) complex have monoclinic crystal system. Unit cell volume for each system is determined by respected equation.

Table 2: Lattice constant, unit cell volume, crystal system and interplanar spacing of metal complexes.

Unit of	Lattice	Consta	nt	Unit Cell Volume	Inter axial	Crystal	28	d value
complex	a (Å)	b(Å)	c(Å)	(Å3)	angle	system		(Å)
Cr(III)	8.236	10.98	15.36	110.61	α≠β≠γ≠90	Triclinic	11.90	7.43
Fe(III)	11.89	13.02	7.02	106,03	α =β=90≠γ	Monoclinic	9.18	9.66

Table 3: Miller Indices and Interplanar distance of Cr(III) complex

2 <del>0</del> (obs)	2θ(cal)	d(obs)	d(cal)	h	8.	Ţ	Intensity
9.85	9.89	8.97	8,93	0	-1	4	66.61
11,90	11.91	7,43	7.41	0	-1	2	100
12.41	12.44	7.12	7.10	1	-1	0	24,78
12,77	12.44	6.92	7.10	1	-1	G	30.60
14.51	14.20	6.08	6.22	0	0	2	22.62



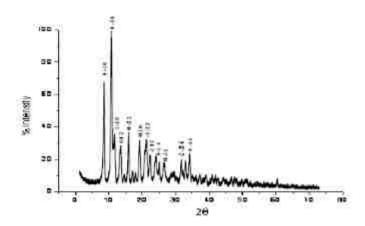


Fig.1. X-ray diffractogram of Cr(III) complex

Table 4: Miller Indices and Interplanar distance of Fe(III) complex

20 (obs)	20(Cal)	d(obs)	d(cal)	ħ	K	1	Intensity
10.302	10.17	8.57	8.68	±1	1	0	22,54
9.18	10.17	9.66	8.68	-1	1	0	100
12.64	12.85	6,99	6.88	C	0	1	12.61
14.49	14.54	6.10	6.08	0	1	Ť.	16
20.76	20.44	4.37	4.34	-2	2	0	11.52

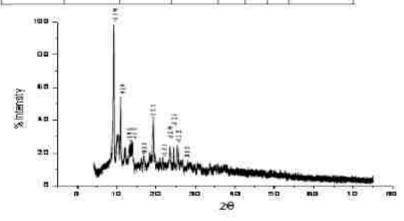


Fig.2. X-ray diffractogram of Fe(III) complex

### Biological screening:

Thiosemicarbazone ligand and its Cr(III) and Fe(III) metal complexes has wide range of biological activity. [16,17] Thiosemicarbazone complexes has large pharmaceutical applications. [18] The antibacterial activity of ligand and its metal complexes are given in below table. The ligand as well as metal complexes are more active against bacteria which are compared with standard ciprofloxacin.

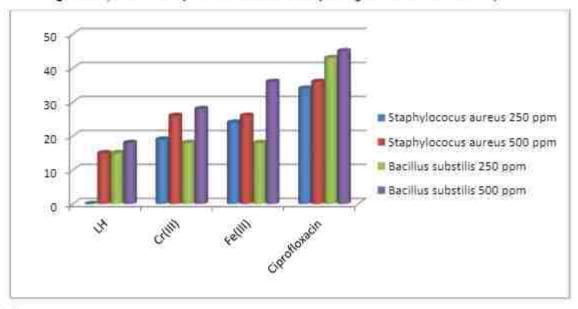
Table 5: Antibacterial activity of ligand and its metal complexes

Ligand/complex	Staphylococcus aureus		Bacillus s	ubstilis.
	250ppm	500ppm	250ppm	500ppm
Ligand (LH)	00	15	15	18



Cr(III)	19	26	18	36
Fe(III)	24	26	18	36
Ciprofloxacin	34	36	43	45

Fig.3.Comparative study of antibacterial activity of Ligand and its metal complexes.



#### Conclusion

The Cr(III) and Fe(III) metal complexes of Thiosemicarbazone ligand were studied by x-ray diffraction method shows monoclinic and triclinic crystal system are crystalline in nature and have octahedral geometry also shows potential antibacterial activity.

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# Synthesis, Characterization and Antimicrobial Studies of the Metal Complexes of β-Diketone

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#### ABSTRACT

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Accepted: 02July2021 Published:25 July, 2021 The ligand 1-(2-bromo-5-methoxyphenyl)-3-(2-hydroxyphenyl) propane-1, 3-dione (L) and its transition metal complexes have been synthesized. The ligand synthesized using 2-hydroxy acetophenone and 2-bromo-5-methoxy benzoic acid. Each metal complex synthesized by metal nitrate with  $\beta$ -diketone in the ratio 1:2 stiochimetry. The characteration were carried out by elemental analysis, UV-Visible spectroscopy, infrared spectroscopy,1H-NMR,13G-NMR, magnetic susceptibility, molar conductance, powder XRD and TGA for structural formulae study. The synthesized  $\beta$ -diketones and their transition metal complexes have been screened for in vitro antibacterial, and antifungal activity using Resazurin 96 well plate method. This method is simple, sensitive, rapid, and reliable. It achieves more accurate minimum inhibitory concentration (MIC). The transition metal complexes and ligand showed moderate antimicrobial activity against all tested bacteria and fungi.

Keywords: Antimicrobial activity, Antioxidant,  $\beta$ -diketones, Metal-complexes, Magnetic susceptibility, TGA, XRD.

## I. INTRODUCTION

In pharmaceutical industries metal containing drugs widely used. In particular transition metal series are more important in human body. Metal are easily loose electrons towards the molecules (ligands) forms co-ordinate bond and metal exits as positively ions soluble in biological fluids. Hemoglobin is an important constituent in blood contain Fe metal which give binding side for O2. Cis-platin (cis-Pt(NH3)2Cl2) is a first introduced in anti-cancer drug

contains platinum metal. Zn metal that regulate the function of genes in the nuclei of cells and component of insulin. Nickel (II) forms an important component in different enzymes, viz. urease, carbon monoxide dehydrogenase and hydrogenase¹.

The previous research found that 1, 3-diones showing antiviral, insecticidal, antibacterial, antitumor, antioxidant ,HIV-1Integrase (IN) inhibitors²⁻⁶,The  $\beta$ -diketones (1,3-diketone) are intermediate key for the synthesis of different hetero-cyclic compounds⁷⁻¹².In addition, 1,3-diketones ( $\beta$ -diketones) have also been

used as an anti sunscreen agent that filters U.V rays to protect from skin cancer¹³.1, 3-dionemetal complexes are used as catalyst in reaction of olefin oxidation and epoxidation¹⁴⁻¹⁵. Europium (III)-diketonates have excellent luminescent property ¹⁶. It is also used as chelating agent ¹⁷and extractants for lanthanide ions¹³.As a result, considerable effortshave been directed towards synthesis of beta-diketones and its metal complexes.

Here we report the synthesis ofligand and their metal complexes characterized by various spectral technique and also look the in vitro antibacterial screening was carried out by using micro titre plate based resazurin assay against Gram positive (Bacillus subtilisand Staphylococcus aureus) and Gram negative (Escherichia coli, Pseudomonas aeruginosa) bacterial cultures. The antifungal susceptibility of ligand and its metal complexes was tested against Candida albicans and Saccharomyces cerevisiae. In micro titre plate based resazurin assay technique colorimetric indicator was resazurin.

#### II. EXPERIMENTAL

All chemicals were of reagents grade, purchased from commercial source and used directly. All metal salts were used as nitrate. Melting points were recorded by the open tube capillary methodand are uncorrected. The progress of the reaction and the purity of compounds were monitored by thin-layer chromatography (TLC) analytical silica gel plates (Merck 60 F250), ¹H NMR and ¹⁵C NMR spectra were recorded on a Jeol-400 MHz instrument in CDCls solution. Mass spectra were taken on a macro mass spectrometer by the electrospray ionization (ESI) method. The C, H and N analyses were carried out using a Euro-E 3000.Infrared spectra were recorded on SHIMADZU FT-IRspectrometer .The conductivity of metal-complexes measured by ELICO CM 180. The TGA analysis were carried out by Ramp method using SDT Q600 V20.9 Build 20 instrument.

## A. Synthesis of 1-(2-bromo-5-methoxyphenyl)-3-(2hydroxyphenyl) propane-1,3-dione (L):

The 2-hydroxy acetophenone (0.01mol) and 2-bromo-5-methoxy benzoic acid (0.01mol) was dissolved in dry pyridine (30 ml) and cooling the mixture at 0°C then POCIs (2-3ml) was added drop wise with constant stirring maintain temperature below 5°C . The progress of reaction was monitored by TLC. After completion of reaction, the reaction mixture was poured on crushed ice and acidified with dil. HCl. The crimson colored solid (ester) product (3) was obtained. It was washed with water and filtered off and crystallized from alcohol. The ester(0.01mol) dissolved in pyridine (25ml) and add powdered KOH (1.12g, 0.02 mol) and the reaction mixture stirred at room temperature for 5-6 hours which undergoes Baker-Venkataraman rearrangement. The progress of reaction was monitored by TLC. After the completion of reaction, the reaction mixture was poured in dil.HCL in crushed ice, The yellow solid product obtained was washed with water and filteredoff. The product crystallized from alcohol.

¹H-NMR:δ=15.18 (s,1H),11.98 (s,1H),7.71 (d. J=7.9Hz,1H), 7.57 (d, J=8.9Hz,1H), 7.48 (t, J=7.2Hz,1H), 7.18 (d. J=3.1Hz,1H), 7.01(d, J=8.2Hz,1H),6.93-6.88(m, 2H),6.73(s,1H),3.84(s,3H) ¹³C-NMR:δ=195.97,177.06,162.66,55.66:IR -1618 ν (C=O),1581 v (C=C),1220 v (C-O), 3280 v(-OH) MS: m/z 346.9 (M - 1); Anal. calcd. for C16H13BrO4: C, 55.04; H, 3.75; found: C, 55.18; H, 3.89; vield:65%;M.P-106°C; Yield-66%.

## B. Synthesis of metal complexes:

The ligand (L) 4 mmol dissolved in 35 ml of anhydrous ethanol and add 2 mmol of appropriate transition metal nitrate [Fe(III),Co(II), Ni(II), Cu(II), Zinc(II)] and stirred at 60–65°C for 2-3 hour. After the addition of alcoholic ammonia solution complex precipitation occurs and colored solid complex obtained was washed with ethanol and then crystallized by with ethyl acetate. The yield of the all metal complexes was in the range of 66–71%.

Fig 1.5verbaris of 1,3-disea and its maral complexes

## III. RESULTS AND DISCUSSION

All the metal complexes were found to be highly stable at room temperature and readily soluble in dimethyl formamide and dimethyl sulfoxide other than common organic solvents. The results of elemental analysis confirmed stoichiometry of ligand to metal 2:1 for all metal complexes. The TGA data confirms two water molecules associated in the metal complexes reveals octahedral geometry.

## IR spectra

The infrared spectral data of ligand (L) and their metal complexes are reported in Table 1. The carbonyl group (>C=O) stretching frequency of ligand (L) appearance at 1618 cm⁻¹. The appearance of frequency at 1581 cm-1 represents (-C=C-) double bond and the bond (C-O) appear at 1220 cm⁻¹. The metal complexes of ligand (L) show IR frequency of carbonyl group (>C=O) at 1617-1619 cm⁻¹ which were nearly same or slightly lower than ligands (L) 15. The slightly change in stretching frequency indicates that ligand (L) coordinated with the transition metal ions. Also a new band at 509-533 cm-tobserved due to metal-oxygen (M-O) bond vibrations in metal complexes which were absent in ligands20. This confirms of metal ions coordinate with oxygen in complexes.

Table 1. FTIR (v/cm⁻¹) data of ligand and metal complexes.

Compounds	v(C=O)	v(C-O)	v(C=C)	v(M- O)
L	1618	1220	1581	5552
(L):-Fe	1618	1238	1581	522
(L):-Co	1617	1249	1585	533
(L)2-Ni	1617	1213	1586	509
(L):-Cu	1619	1241	1585	523
(L):-Zn	1618	1249	1587	533

## 2. 1H NMR and 13C NMR spectra

The ¹H NMR spectral data of the 1-(2-bromo-5-methoxyphenyl)-3-(2-hydroxyphenyl)propane-1,3-dione (L) show singlet at  $\delta$  15:18 ppm due to enolic proton, a singlet at  $\delta$  11.98 ppm due to phenolic proton adjacent to the carbonyl group which confirms the formation of  $\beta$ -diketone.

In the  13 C NMR of ligand (L) 4, peak appeared at  $\delta$  195.97 ppm corresponds to carbonyl carbon (C=O) and enolic carbon (C=O) at  $\delta$  177.06 ppm.The signal at  $\delta$  96.08 ppm appeared shows methine linkage.

## 3. Magnetic Susceptibility and Molar Conductance

The molar conductance values recorded in  $\Omega$ -1cm2molar room temperature using DMSO as a solvent and results are recorded in Table 2. The molar conductance values were obtained in the range 18-42  $\Omega$ -1cm2mol-1. The conductance values of the metal complexes very low which indicate non-electrolytic in nature 21. The magnetic susceptibilities values of all metal complexes indicates paramagnetic in nature except Zinc complexes were diamagnetic due to non-availability of unpaired electrons.

Table 2.Physical parameter of metal complexes.

Metal Complexes	Magnetic moment µeff (B.M)	Molar conductance	M. W.	Meltin g point	Elemental a Found/(Calcd	malysis (%) L)
					C	H
(L)2 Fe	5.81	39	790.23		48.12(48.64)	3.75(3.83)
(L): Co	3.22	42	793.32	221	47.99(48.45)	3.80(3.81)
(L): Ni	2.41	27	793.08	219	48.97(48.46)	3.59(3.81)
(L)2 Cu	1.11	18	797.93	277	47.61(48.17)	3,51(3,79)
(L): Zn	Dia	34	799.77	163	48.59(48.06)	3.61(3.78)
	- 4					

#### Powder XRD Studies

X-ray powder diffraction study basically used for phase identification of a materials and can provide information on unit cell dimensions. Single crystals of the metal complexes could not be possible therefore powder diffraction data used. The XRD data recorded in the range 10-80 (20) values. Average particle size was calculated using Debye Scherrer's formula,  $D = 0.9 \ \text{NB.cos0}$  where0 is the Bragg diffraction angle and  $\beta$  is the full width at half maximum (FWHM)  $\Xi$ .All metal complexes show monoclinic crystal system.

Table 3. Summary of XRD data of Metal Complexes

Parameter	(L)2-Fe complex	(L)2-Co complex
Temperature (k)	298	298
Wavelength	1.540598	1,540598
Radiation	Cu Κα	Cu K a
Crystal System	Monoclinic	Monoclinic
a (Aº)	6.014	9.32
b (A°)	26.3	13.21
c (Aº)	6.99	12.49
α (°)	90.1	90
β (°)	116.7	102
γ (°)	91.2	90
Average Particle Size (nm)	8.476	7.989

# Thermo gravimetric study of some metal complexes

Thermal gravimetric study used to evaluate the thermal stability of metal complex here some selected metal complexes was carried out at a heating rate of 10°C min-1 under nitrogen atmosphere over the temperature range 25-600 °C. Thermo gravimetric analysis of bis-1-(2-bromo-5-methoxyphenyl)-3-(2hydroxyphenyl) propane-1,3-dione Fe(III) complex some loss of weight (4.153%) at 179.18 Cindicating that surface and coordinated water molecules are present in the complex23-24. A sudden weight loss (22.24%) from 179.18°C to 331.57°C due to loss of one phenyl ring with two hydroxy and one carbonyl group. Further, the weight loss (54.43%) from 331.57°C to 534.00°C corresponds to the decomposition of two phenyl ring and a propane-1, 3-dione moiety. On further heating above 534.00°C the weight remaining corresponds to that of only Ferric oxide.

Thermo gravimetric analysis of bis-1-(2-bromo-5-methoxyphenyl)-3-(2-hydroxyphenyl)propane-1,3-dione Co(II) complex shows some loss of weight (5.018%) at 175.77°C indicating that surface and coordinated water molecules are present in the complex.A sudden weight loss (50.55%) from 175.77°C to 496.47°C due to loss of one phenyl ring with two hydroxy and one carbonyl group. Further, the weight loss (11.06%) from 496.47°C to 597.69°C corresponds to the decomposition of two phenyl ring and a propane-1, 3-dione moiety. On further heating

above 597.69°C the weight remaining corresponds to that of only Cobalt oxide.

#### 6. Antimicrobial Activities

The antimicrobial activity of ligand and its metal complexes carried out by resazurin method which is developed by Drummond and Waigh in 2000 ²⁵. The resazurin method simple, sensitive, rapid, reliable and achieve more accurate minimum inhibitory

concentration (MIC). In this method resazurin used as an indicator and it was prepared by dissolving 270 mg tablet in 40 ml of sterile distilled water. The value of minimum inhibitory concentration (MIC) taken at color changes from purple to pink or colorless were recorded as positive. MIC value taken as color change occurs at lowest concentration as a average of three values of MIC for the test material and bacterial strain.

Table 4: MIC (µg/ml) determination using modified resazurin assay

	Antibacterial	activity			Antifungal a	activity
Compounds	Gram positive	6	Gram neg	gative		
	B.subtilus	S.aureus	E.coli	P.aerugenosa	Calbicans	S.cerevisiae
L1	<50	<50	100	50	100	150
L2	100	50	100	50	150	150
(L1)1 Fe	50	50	100	50	150	150
(L1)2 Co	50	<50	50	50	100	150
(L1)2N1	50	<50	100	50	100	100
(L1)2Cu	50	<50	100	50	150	100
(L1)2Zn	50	<50	100	50	100	150
Tetracycline	2	1	4	1	: = :	5
Amphotericín B	<b>3</b>	===	E	34	1.25	1,25

# 1,1-Diphenyl-2-picrylhydrazyl Assay (DPPH Assay)

The antioxidant activities of ligand and its metal complexes were examined according to DPPH method. In DPPH method stock solution of DPPH prepared in methanol. The percentage of inhibition was calculated. Ascorbic acid was used as a standard reference and dissolved in distilled water to make the stock solution with the same concentration of metal complexes. Control sample was prepared containing

the same volume and reference ascorbic acid; 95% methanol was used as blank and % scavenging of the DPPH free radical was measured using the following equation:

% inhibition = {(A control - A sample)/ (A control)} x100

A control = absorbance of DPPH alone

A sample = absorbance of DPPH along with different concentrations of complexes.

Concentration µg/mL	Ascorbic Acid	(L)	(L)2Fe	(L)2Co	(L)2Ni	(L)2Cu	(L):Zn
	% Inhibition	% Inhibition	% Inhibition	% Inhibition	% Inhibition	% Inhibition	% Inhibition
10	9.34	4.51	9.34	13.33	9.34	20.40	9.34
20	29.40	8.86	9.34	58.18	9.34	29.71	9.34
30	39.48	44.31	29.47	71.80	13.42	43.09	9.34
40	47.87	69.88	32.18	72.71	15.87	46.94	58.18
50	81.75	78.06	32.91	86.13	51.93	65,46	87.08

Table 5: Antioxidant study of using DPPH method.

#### IV. CONCLUSIONS

Thepresentresearchwork, we synthesized new ligand and its transition metal complexes. In the metal complexes reveals that 1, 3-diones and metal 2:1stoichiometry ratio for all the prepared metal complexes. These complexes were characterized by various physicochemical and spectral analyses. It shows non-electrolytic nature and octahedral geometry with center of symmetry. Powder XRD study of complexes show monoclinic crystal system. The thermal stability were evaluated by TG method whose results revealed good thermal stability for the synthesized metal complexes. As per results, it can be seen that the newly synthesized ligands and its metal complexes shows considerable antimicrobial activity against all tested bacteria and fungi compared with antibiotics Tetracycline and Amphotericin B.

#### V. ACKNOWLEDGMENTS

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# An one-Spot Synthesis of 1, 3, 4-Thiadiazole Derivative by Conventional and Modern Technique

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An efficient and one-pot synthesis is described for the 1, 3,4-thiadiazole derivatives by a conventional and modern technologies such as microwave irradiation. The reaction of chloro and fluoro substituted aromatic carboxylic acid with thiosemicarbazide carried in the presence of phosphorus oxychloride heating at 110 0G and . The synthesized compounds were characterized by 1H NMR, IR, and mass spectroscopic techniques. The present approach offers the advantages such as simplicity of the workup procedure, low cost and mild

reaction condition.

Keywords: One pot, 1,3,4-thiadiazole, thiosemicarbazide, modern technique.

## I. INTRODUCTION

1,3,4-thiadiazoles is important and well-known heterocyclic compounds containing nitrogen and sulphurexhibit a wide variety of biological activities[1-4].

Thiadiazole is a 5-membered ring system containing a hydrogen-binding domain, sulphur atom, and two-electron donor nitrogen system. It has various applications in agriculture, drugs, dyes and photographic materials and was further developed by Busch and his co-workers. Also, it has producing useful intermediates in several organic preparations [5]. 1, 3, 4-Thiadiazoles derivatives ring represents an interesting class of hetero compounds with a wide

spectrum of pharmacological activities which include antimicrobial [7], antibacterial [8], anticancer [9], anti-inflammatory [10], anti-proliferative activity [11], anti-oxidant [12], and antiviral [13]. It also displays the diagnostic section exhibits a complete investigation of the isomeric form and the anticancer activity of bio caster 1, 3, 4-thiadiazoles due to therapeutic potential [14].

#### II. EXPERIMENTAL

Experimental: General: All the chemical and reagents used were of analytical grade and the completion of reaction and purity of the synthesized compounds were checked by TLC (0.5 mm thickness) using silica

gel-G coated Aluminium plates (Merck). Melting points of the compounds were determined in open capillary tube by digital Melting Point Apparatus and were uncorrected.

General procedure for one spot Synthesis of 5-phenyl substituted 1,3,4-thiadiazol-2-amine. The mixture of chloro and fluro aromatic substituted carboxylic acid (0.01mole), thiosemicarbazide (0.01mole), and 4 ml of phosphorus oxychloride were added and heat at 105°C for 5-6 Hrs. Progress the reaction was monitored on TLC. After completion of reaction the reaction mixture was cool to room temperature and poured in ice-cold water, neutralized by saturated KOH. Then filter, dried and recrystallized from methanol.

# Synthesis of 5-phenyl substituted 1, 3,4-thiadiazol-2amine 3(a-d) under microwaye.

The mixture of substituted aromatic carboxylic acid (0.01mole), thiosemicarbazide (0.01mole), and 4 ml of phosphorus oxychloride were added. The mixture was irradiated under microwave irradiation at 120°C for 15 min. The completion of the reaction was checked by TLC. After completion of the reaction the RBF was removed from the oven. The reaction mixture was poured on to crushed ice drop wise with continuous stirring, neutralized by saturated KOH. Then filter, dried and recrystallised from methanol.

			Micros Imada	25.5	Constitution method	nof:	
Entry	Conspound	AL	Renemon Time enits)	Vield (94)	Notation Title (b)	(%)	MPPC
( P.	30)	24.3-67	355	47	3.	68	1,41
2	39)	J-F, 4-F	15	12:	- 34	76	2)16
3	34	2-9	15	38	- 4	.74	165
4	807	34-8	135	86	4	79	1285

## III. RESULT AND DISCUSSION

A simple and efficient procedure is described for the synthesis of the 1,3,4-thiadiazole derivative using the

one-pot reaction of aromatic carboxylic acid and thiosemicarbazide in the presence of phosphorus oxychloride as a catalyst by conventional and Microwave irradiation techniques. The structural elucidation of the synthesized compound 3a is based on its IR, 1H NMR, and mass spectral studies. The IR absorption band around 703 cm-1 could be attributed to the -C-S-C functional group. IR spectrum of 3ashowed absorption bands at 3385,1487, 1607, 1596, 1009 cm-1 indicating the presence of NH2, C=C, C=N, C-F groups respectively. 'H NMR spectrum peaks due to NH: protons appeared at 8:7.40. Peaks for three aromatic protonsappearedbetween 7.52-8.16. Further, LC mass spectrum showed a molecular ion peak at m/z 236 which conformsto the molecular structure of 3a.

## IV. SPECTRAL DATA OF COMPOUND

# 5-(3-Chloro-2-fluoro-phenyl)-[1, 3, 4]thiadiazol-2-ylamine (3a)

Yield 84 %, m.p.151°C; IR spectrumcm°: 703 (C-S-C stretching ), 3385 (NH:stretching.); 1487(C=C Ar stretching), 1607 (C=N stretching ),1009 (C-F stretching ); H NMR spectrum, δ, ppm; 7.40 ( dd, J=7.96, 8.4, 1H), 7.52(1H, d, J=7.96, 1H), 8.00(s,2H), 8.16(d, J=8.4, 1H). (MS: m/z. 236 (M+H)°.

# 5-(2, 4-Difluoro-phenyl)-[1, 3, 4] thiadiazol-2-ylamine (3b)

Yield 85 % m.p.216°C; IR spectrum, v, cm⁻¹: 682(C-S-C stretching), 3369 (NH₂ stretching.); 1443(C=C Ar stretching), 1596 (C=N stretching ),1054 (C-F stretching ),; ¹H NMR spectrum, δ, ppm :: 7.20 (s, 1H), 7.41(d, J=8.96, 1H), 7.46(s, 2H), 8.12(d, J=8.96, 1H), (MS: m/z. 214 (M+H) ⁻

## V. CONCLUSION

In conclusion, the present method is very simple, mild, and efficient for the synthesis of 1,3,4thiadiazole. This method offers several advantages, including the short reaction time, simplicity of the workup procedure, low cost, and mild reaction condition for the synthesis of one-pot synthesis of 1,3,4-thiadiazole. These derivatives have been given a key to more modifications in pharmacophore replacements.

#### VI. ACKNOWLEDGMENTS

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# Effect of Chemical Mutagens on Seedling Height in Cluster Beans (CyamopsisTetragonoloba (L)Taub.) by Mutation Breeding

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## ABSTRACT

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## Article History

Accepted: 02July2021 Published:25 July, 2021 In the present study two varieties of cluster bean, namely, Golden Early – 36 (GE-36) and Harit Rani (HR) were used to induce genetic variability. For present study two chemical mutagens, namely, ethyl methanesulphonate (EMS) of different concentrations such as 0.05%, 0.10% and 0.15% and sodium azide (SA) of concentrations such as 0.01%, 0.02% and 0.03% were tried. Seeds from each treatment were sown in field following randomized block design (RBD) with three replications along with control as the M1 generation. Further two consequent generations were taken, M2 and M3 generations respectively. In M1generation seedling height was studied. After 10 days of duration, height of seedlings was noted. The seedling height decreased as the concentration(%) of the two mutagens increased in majority of the treatments in both the varieties of cluster bean.

Keyword: ethyl methanesulphonate, Golden Early - 36, Harit Rani, cluster bean.

## I. INTRODUCTION

## Rationale of study

Cluster bean is also called as guar. The word "GUAR" represents a derivation from the Sanskrit word "GAUAAHAR" which means cow fodder or fodder of live stock. Basically cluster bean is a drought hardy, deep rooted annual legume. The crop is mainly grown in the dry habitats of Rajasthan, Haryana, Gujarat and Punjab. In addition to its major cultivation in India, the crop is also grown as a cash crop, although to limited extent in other parts of the world like

Australia, Brazil and South Africa. The crop is known for its exceptionally high adaptation towards poor and erratic rains, multiuse in cropping system, in industrial use in many ways besides other social and dietary uses. These qualities have made it most the favoured crop of marginal farmers in arid areas. Mutation breeding in crop plants is an effective tool in hands of plant breeders especially in crops having

in hands of plant breeders especially in crops having narrow genetic base. Many mutants have been identified as donors of desirable traits in breeding program. Mutation breeding is built on mutation induction and mutation detection. Mutation

induction coupled with selection remains the "cleanest" and most inexpensive way to create varieties by changing single characters without affecting the overall phenotype. Mutation induction involves the treatment of plant propagules with mutagens (chemical or physical). This is followed by selection for desirable changes in the resulting mutants. Breeders use mutation induction to broaden the genetic base of germplasm, and use the mutant lines directly as new varieties or as sources of new variation in breeding programs. Mutation breeding has many comparative advantages. It is cost effective, quick, proven and robust. In addition, mutation breeding is transferrable, ubiquitously applicable, non-hazardous and environmentally friendly. There are more than 3200 mutant varieties officially released for commercial use in more than 210 plant species from more than 70 countries, as referenced in the Mutant Varieties Database. The vast majority of released mutant varieties consist of cereals, followed by flowers and legumes. Mutation breeding work in soybean crop has yielded in identification of many mutant lines with desirable traits. Variations in M1 generation, though less important in view of obtaining stable gene 2 mutations, are often considered as indicators in measuring efficiency of mutagen treatments (Plesnik, 1993).

Vegetables act as a good source of nutrients. To enhance variability in such crops the tool of mutation breeding is accepted by various plant breeders. To increase the productivity of vegetables various mutation breeding programs are carried out in brinjal (Datar and Ahstaputre 1984), chilli (Gupta and Yadav 1984), pea (Cemalettin et al., 2004), rye (Savaskan and Toker, 1991) and capsicum (Alcantara et al., 1996). Different vegetables contribute towards the fibre and protein production besides getting the induced genetic variability for disease /pest/insect resistance.

## II. OBJECTIVE OF STUDY

- To study the effect of mutagens on Cluster bean varieties.
- To study morphological changes in M1 generation.
- To screen early stages changes for understanding the effect of mutagens.
- 4. To understand the effectiveness of mutagens.
- To analyze efficiency of two chemical mutagens, ethyl methane sulphonate and Sodium azide.

#### III. HYPOTHESIS

Mutation breeding as a tool makes genetic variations that can be used to develop and improve well adapted plant varieties by modifying one or two major traits to increase their productivity or quality. Treating with mutagens like ethyl methane sulphonate and sodium azide at different concentrations can show different morphological changes that can be responsible for progressive yield productions. In present study change in seedling height was screened with comparing with two control varieties of cluster bean.

#### IV. METHODOLOGY

The seed material of two varieties of cluster bean (Cyamopsistetragonolobs (L.)Taub.)namely, Golden Early 36 and Harit Rani obtained from Golden Seeds Pvt. Ltd, Bangalore, Karnataka and Navalakha Seeds Pvt. Ltd, Pune have been used in the present study.

#### Mutagens Used:

The chemical mutagens namely ethyl methane sulphonate (EMS) and sodium azide (SA).

## Details of Mutagenic Treatments:-

To begin with the pilot experiments were conducted for determining the suitable concentrations/doses for further studies.

## Preparation of mutagenic solution:-

The chemical mutagenic treatments were prepared at room temperature of 25±2°C. The fresh aqueous solutions of the mutagens were prepared prior to treatment.

#### Treatment:

Prior to chemical mutagenic treatments, seeds were immersed in distilled water for 6hrs. The pre-soaking enhances the rate of uptake of the mutagen through increase in cell permeability and also initiates metabolism in the seeds. Such presoaked seeds were later immersed in the mutagenic solution for 6hrs with regular shaking. Seeds soaked in distilled water for 6hrs served as control. For each treatment a batch of 300 presoaked seeds was used. 50 seeds from each treatment were dried between the folds of filter paper and germinated in petridishes to record germination percentage. The remaining 250 seeds from each treatment were sown in field following randomized block design (RBD) with three replications along with control as the M1 generation.

## V. CONCLUSION

The results of present studies regarding mutagenic effects have been dealt in M1 generation. In M1 generation, studies were carried out on differential effects of different mutagens on biological parameters and morphological abnormalities. The present investigation comprised the study of mutagenic sensitivity of two varieties [Golden Early-36 (GE-36) and Harit Rani (HR)] of cluster bean in regard to some biological and morphological parameters. The effect of EMS and SA on cluster bean was studied by choosing three concentrations(%) for each mutagen, such as EMS0.05%, 0.10% and 0.15%, SA0.01%, 0.02% and 0.03%.

The seedling height decreased as the concentration(%) of the three mutagens increased in majority of the treatments in both the varieties of cluster bean. After 10 days of duration, height of seedlings was noted. In

control the seedling height was found to be 10cm and 07cm in GE-36 and HR. The seedling height ranged from 07cm to 14cm and 09cm to 11.5cm after EMS treatments, from 10cm to 15cm and 10cm to 11.5cm after SA treatments (table 1 and 2).

Table 1: Effect of mutagens on seedling height in M: generation of Cyamopsistetragonoloba (L.)Taub.variety GE-36.

Treatment	Concentration (%) / Dose	Seedling height in cm	± SE
Control	48	10	0.73
EMS	0.05	14	1.02
	0.10	08	1.43
	0.15	07	1.69
SA	0.01	15	1.16
	0.02	11	1.46
	0.03	10	1.72

SE = Standard Error

Table 2: Effect of mutagens on seedling height in M: generation of Cyamopsistetragonoloba (L.)Taub.variety HR.

Treatment	Concentratio n (%) / Dose	Seedling height in cm	± SE
Control		07	0.64
EMS	0.05	11.5	0.87
	0.10	10	2.02
	0.15	09	2.47
SA	0.01	11.5	1.39
	0.02	10	2.15
	0.03	10	2,58

SE = Standard Error

## Suggestions/recommendations

Mutation breeding has been employed as a tool to induce mutations at loci controlling economically important traits or for eliminating undesirable genes [2], from the elite breeding lines (Lippert et al., 1964). In present investigation both physical and chemical mutagens were used to induce mutation. Observations recorded in present study revealed induction of broad genetic variability in case of cluster bean. Many crops with improved economic value have been obtained by using induced mutation (Broetzes 1988, BEAS 1995 and IAEA 1995). Besides the economic benefits, some mutants have also played important role in the study of genetics and plant development (Vanden et al., 1990 and Bretagne-Sgnard et al., 1996). The effect of mutagen can be examined through different biological parameters such as percentage of seedling height in M1 generation. In present study the data obtained on seedling height of cluster bean varieties indicated that the seedling height decreased with the increasing concentration/dose of mutagens. SA was found to be more sensitive in variety GE-36 and EMS and SA in variety HR, respectively. Studying seedling growth as a parameter to assess the effects of mutagens was proposed by Ahnstrom (1974). According to Sax (1935) mutagens might inactivate the meristems and cause hormonal disturbances leading to reduction in plant height.Gunckel and Sparrow (1966) indicated that although the genetic material of the cell is certainly sensitive to radiation damage, both primary and secondary physiological effects may be responsible for many changes. Conger and Stevenson (1969) reported that increased seedling injury at higher doses could be correlated with chromosomal damage.

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# Synthesis of Reduced Graphene Oxide (RGO) by Using Hydrothermal Method

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#### ABSTRACT

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Accepted: 02July2021 Published:25 July, 2021 Reduced graphene oxide, RGO (also called chemically modified graphene, CMG) was synthesized by a hydrothermal method, with graphite oxide (GO), prepared by using improved hummer method at different temperatures, served as the raw material. Structural and morphological studies indicate the degree of reduction is dependent on the temperature, which is also verified by Raman analysis. The variation in interlayer distance and the intensity ratio of the D to G Raman modes (ID/IG)indicates higher reaction temperature can accelerate more reduction of GO and also (I2D/IG) ratio indicate the reduction in number of graphene layers. The reduction material is characterization by Raman spectroscopy.

Keywords: Graphene oxide (GO), Reduced graphene oxide (RGO), Hydrothermal method, Improved Hummer Method, Raman Spectroscopy.

### I. INTRODUCTION

Carbon is the one of the most common atoms on Earth, occurs naturally in many forms and as a component in countless substances which are called allotropes of carbon. Graphene, a "wonder material" is the world's thinnest, strongest, and stiffest material, as well as being an excellent conductor of heat & electricity. [1] Graphene, a single layer of sp2- bonded carbon atoms packed in a hexagonal lattice, since the first fabrication via a "Scotch tape" method in 2004 [2], has triggered great research interests. Graphene & reduced graphene oxide (RGO) are promising candidates as components in applications, such as storage materials [3], catalyst supports [4] and electronic devices [5].

Graphite oxide has a similarlayered structure to graphite, but the plane of carbon atoms in graphite oxide is heavily decorated by oxygen-containing groups, which not only expand the interlayer distance but also make the atomic-thick layers hydrophilic. As a result, these oxidized layers can be exfoliated in water under moderate ultrasonication. If the exfoliated sheets contain only one or few layers of carbon atoms like graphene, these sheets are named graphene oxide (GO). The most attractive property of GO is that it can be reduced to graphene-like sheets by removing the oxygen-containing groups with the recovery of a conjugated structure. The reduced graphene oxide (RGO) sheets are usually considered as one kind of chemically derived graphene. Some other names have also been given to RGO such as functionalized graphene, chemically modified graphene, chemically converted graphene, or reduced graphene.[6]

In this study, we fabricated reduced graphene oxide (RGO) from the reduction of graphite oxide (GO) by hydrothermal method at different temperatures, by systematically analyzing the influence of reaction temperature on the interlayer distance and the intensity ratio (In/Ig)of the D to G Raman modes of the as-produced RGO, we find that the degree of reduction is related with the reaction temperature, the conductivity in turn related with the degree of reaction [7].

#### II. EXPERIMENTAL

Graphite oxide was prepared from natural graphite by

## 2.1. Synthesis of GO & purification:

the well-known Improved Hummer method. Nature graphite (1g) was grindedwith NaCl (1g) for 1hr. Afterward NaCl was washed away using distilled water with filtration & dried it below 45 °C [8]. For the Improved method, we take 9:1 proportion of conc.H:SO4/H:PO4. The dried graphite (660 mg) was then mixed with 75ml of concentrated sulfuric acid in round bottom flask& stirred up to 3 hrs. Then next 8.8 ml of HiPO+ was added to the mixture & allow to dissolve for 1hr. The flask was then placed in an ice bath & (4g) of KMnO4 was slowly added while the temperature was kept below 20°C for 2hrs. The solution then heated at 35°C for 1hr. Then add 1ml H2O2 to 100ml water & add above mixture to H2O2 solution. Dilute this suspension to 400 ml water & stirred it for 1hr. After that, this suspension was shifted through a metal sieve & then filtered through polyester fiber. The filtrate was centrifuge at (10000 rpm, 1hr) with 180ml distilled water & the supernatant was decanted away [9]. The remaining solid material was again centrifuge for many times until its pH does not get maintained. Finally, the GO was kept for drying at below 45°C.

## 2.2. Synthesis of RGO & purification:

First 120mg as synthesized GO was suspended in 120ml distilled water to give brown colloidal solution by 30min of sonication. After the Sonification stirred solution for 1hr & add 5ml of hydrazine hydrate as reducing agent stirred this suspension for 10 min & then add 5ml of polyethylene Glycol (HO(CH2CH2)nOH) as capping agent. After that this solution was sealed in 180ml Teflon-lined autoclave & put this autoclave into the hydrothermal furnace at temperature 120°C for 5 hrs. Then the solid were filtered & washed with distilled water several times, finally the collected sample was dried in incandescent lamp at below 45°C. Same procedure was repeated for temperature at 140°C & 160°C. Finally, we got RGO for 120°C, 140°C & 160°C.

## III. EXPERIMENTAL ARRANGEMENT



Figure 1. The macroscopic physical samples

## IV. GRAPHICAL RESULTS

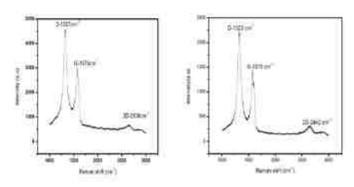


Fig a. Raman Spectra of GOFig b.Raman spectra of RGO (NaOH)

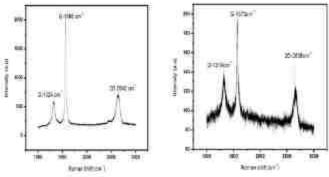


Fig c. Raman Spectra of RGO-1200CFig d. Raman Spectra of RGO-1400 C

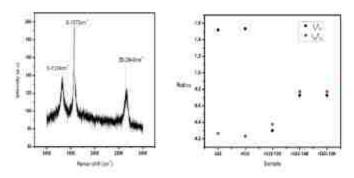


Fig e. Raman Spectra of RGO-1600CFigf. The Intensity Ratio of D.G.2D band

## V. DISCUSSION

Raman spectroscopy is a very useful method to characterize the degree of reduction of GO. For all carbonaceous materials, both D and G bands are the predominant features in the Raman spectra. They are represented by peaks at around 1318-1346 cm-1, 1490-1691 cm⁻¹, respectively. In the Raman spectrum of GO fig (a) Shows the G band is broadened at 1575cm⁻¹. In addition, the D band at 1327 cm-1 becomes prominent, which indicates that after oxidation, some of the carbon atoms have changed from sp2 to sp3 hybridized carbon, the C=C double bonds in the graphite layers are destroyed. In fig (b) shows the Raman spectra of reduced graphene oxide by using NaOH as reducing agent but these spectradoes not show more reduction because if we compare D & G band of GO spectra its values are nearly equal. So that I choose Hydrazine Hydrate as best reducing agent we see in the nest result. The comparison shows in fig (c), fig d) & fig (e)

almost all D band of RGO get reduces means number of defects are reduced & G band shows more crystallinity as compared to GO, Fig (f) shows the intensity ratio of the D to G bands (In/Io) also represents quantity ratio of sp³ hybridized carbon and sp² hybridized carbon, the decrease of In/Io means the increase of sp²hybridized and decrease of sp³ hybridized in RGO. That is, increased In/Io shows better reduction of GO to RGO. Here the best reaction temperature is 160° C, according to the In/Io. In the case of In/Io ratio varied with the reduction time & temperature. In the case of Im/Io increased means the number of graphene layers are decreased.

## VI. CONCLUSION

We have successfully obtained RGO at different temperatures via a hydrothermal method. The degree of reduction of GO is affected by the reaction temperature, which can be confirmed by Raman characterization. In this project we studied reduction of graphene oxide at different temperature such as 120°C,140°C, 160°C & finally we conclude that the best reduction occurred at temperature 160°C. So that higher temperature makes more reduction of graphene oxide to RGO. From the result we conclude that if the Ib/Is ratio increases means number of defects get reduces and more reduction. From the Izp/Ic ratio if the ratio increases with increase in temperature, then number of graphene layers decreases. From this report we studied that the hydrazine hydrate was the best reducing agent for reduction of graphene oxide.

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# Study of RC Coupled Amplifier Using B2 Spice, TINA and Circuit Maker Software's

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#### ABSTRACT

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## Article History

Accepted: 02 July 2021 Published: 25 July, 2021 This paper addresses the performance of RC coupled amplifier using B2 Spice, TINA and Circuit Makerelectronic circuit simulation software's. Traditionally electronic circuit design was verified by building prototypes, subjecting the circuit to the various stimuli and then measuring its response using appropriate laboratory equipment's. Prototype building is somewhat time consuming. But produces practical experience from which we judge the manufacturability of the design. Computer programs that simulate the performance of an electronic circuit provide a simple cost-effective means of confirming the intended operation prior to circuit construction and verifying new ideas that could led to improve the circuit performance.

**Keywords:** - RC Coupled amplifier, Amplification, Transient Analysis, Smoke Analysis Simulation.

## I. INTRODUCTION

The evolution of electronics technology almost in to every facet because of low cost, reliability and ease of interface [1]. The electronic industry is getting progressively more and more efficiently more at new products in wide range and verity of circuits in service of human being. We also saw the more and more products coming in to the market in shorter time [2]. Hence low-cost circuit design, with an accurate, linear and faster testing techniques are addressed. A verity of electronic components PSpice commercially available which plays an important role

in design development of accurate circuit design performance and optimum reliability [3].

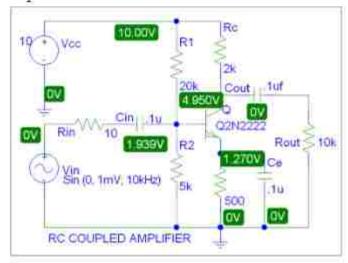
## II. SIMULATION

Electronic simulation of circuit function is now a common practice in the design of individual circuit and the complete systems. The most of the circuit designer can simulate, and design the circuit and develop it as early as they can and hence in market [4]. Spice software models for common circuit elements, active as well as passive, and it is capable of simulating most electronic circuits. It is versatile programmed and is widely used both in Industries

and Universities. [5]. The circuit performance and its reliability in any circuits for to minimize the failure can be tested. To meet the required standard of the circuits and hence quality instruments, the circuit analysis is performed. In case of any failure or problem on can easily redesign it by modifying the very same circuit in a few minutes using highly sophisticated simulation tools [6].

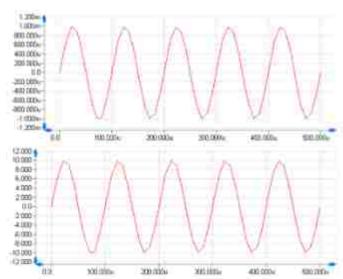
The role of spice software's is very vital in all fields of engineering and industries for the design and built the electronic circuits. Today many groups around the world are investigating advanced software capable of responding a wide verity of components. Recent years have witnessed the excellent progress in the field of spice software. These improve the ability of users to integrate different types of electronic circuits in to their systems or applications. The spice software would have more capability to design and built electronic circuits in wider range of applications.

In case of classroom / laboratories study teaching the spice, experiments will be tried for example in the design of RC coupled amplifier. Here various software's can be come to our reuse and the effect can be easily demonstrated by changing various capacitors so also can be done in case of other circuits of amplifiers and oscillators even for modulation studies.

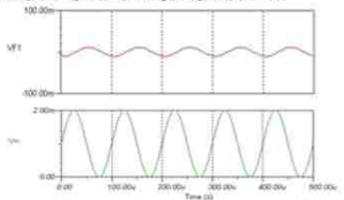


Circuit diagram of the RC coupled amplifier

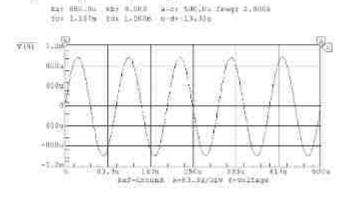
## III. GRAPHICAL OUTPUTS

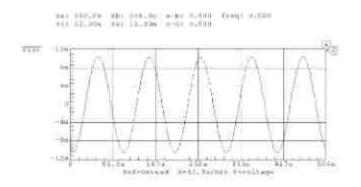


The fig shows input and output signals of the RC coupled amplifier by using B2 Spice Software.



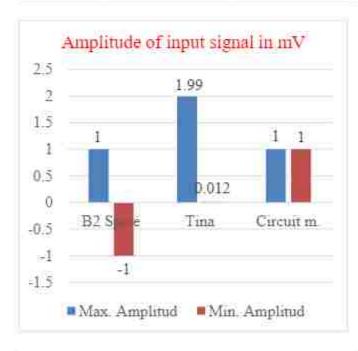
The fig shows input and output signals of the RC coupled amplifier by using TINA Software.



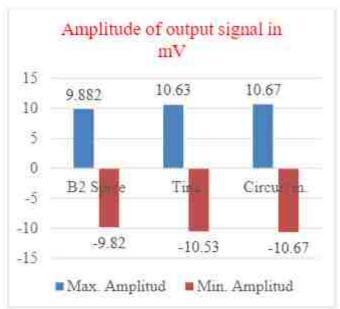


The fig shows input and output signals of the RC coupled amplifier by using Circuit Maker Software.

Software	Amplitude of input signal				
Donware	Max. Amplitude	Min. Amplitude			
B2 Spice	1 mV	-1 mV			
Tina	1.99 mV	0.012 mV			
Circuit m.	1 mV	1 mV			



Software	Output Signal Amplitude				
Optiwate	Max. Amplitude	Min. Amplitude			
B2 Spice	9.882 mV	-9.82 mV			
Tina	10.63 mV	-10.53 mV			
Circuit m.	10.67 mV	-10.67 mV			



Spice helps to determine which components are overstressed using Smoke analyses or observed yields using Monte Carlo analysis are help to prevent board failures. Advanced simulation performance technology save time, improves reliability, and speeds convergence on larger designs.

#### IV. CONCLUSION

When we built the RC coupled amplifier circuit of same configuration in B2 Spice, TINA and Circuit Maker software's we observed the above results. These are very close to the actual built of circuit results. But in TINA and Circuit Maker, We can't observe the proper input signal wave. Means these software's are useful for to build and design the number of electronic circuits for the human welfare, are the time sever as well useful for the virtual education in pandemics condition and fulfils the anytime anywhere lab requirements.

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## Why Simulate?

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#### ABSTRACT

Article Info

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This paper addresses why simulation is necessary and various types of circuit analysis. Traditionally electronic circuit design was verified by building prototypes, subjecting the circuits to various stimuli and measuring its response using appropriate laboratory equipment's. It is time consuming, instead of this if we use various SPICE software's, we can perform the number of analysis of the same circuit virtually. Virtual results are very close to the actually build circuits. It gives new ideas that could lead to improve the circuit performance.

Keywords: - SPICE, Circuit Analysis, Virtual Components

### I. INTRODUCTION

SPICE is a great tool to learn a lot in a short time. Also, busy lives and limited budgets can make experimenting with real parts and expensive equipment nearly impossible. What may take you an hour to wire up in the lab to get a minor concept could be covered in a few minutes with SPICE. For example, how does an amplifier's gain vary with bandwidth? Before the circuit parts were even collected, you can get hands on experience with the gain-bandwidth tradeoff. While text and equations tell you the story, a simulation can clarify the concept and drive it home.

It's true getting a circuit to work as you envisioned can be fun and satisfying. Trying one more RC combination can be addicting as you optimize a circuit. Simulation gives you an open-ended sense of play, a set of circuit blocks ready to be combined in some interesting or useful way. There's a challenge in creating a SPICE model for an electrical or non-electrical component in your system. It's easy to get lost in a circuit adventure. What better way to learn the art and develop a passion for circuit design?

Measuring some circuit voltages and currents can appear like a mission impossible. Here are some difficulties simulation can avoid. Some measuring equipment may load your circuit producing misleading results. Other measurements may require special test equipment you don't have or can't afford. Still others may be dangerous (high voltage or current measurements) or may inadvertently destroy the real circuit. [1,2,3,4,5]

## II. TYPES OF ANALYSIS

DC Analysis: -The dc analysis portion of SPICE determines the dc operating point of the circuit with inductors shorted and capacitors opened. The dc analysis options are specified on the .DC, .TF, and .OP control lines. A dc analysis is automatically performed prior to a transient analysis to determine the transient initial conditions, and prior to an ac small-signal analysis to determine the linearized, small-signal models for nonlinear devices. If requested, the dc small-signal value of a transfer function, input resistance, and output resistance is also computed as a part of the dc solution. The dc analysis can also be used to generate dc transfer curves: a specified independent voltage or current source is stepped over a user-specified range and the dc output variables are stored for each sequential source value.

AC Small-Signal Analysis: -The ac small-signal portion of SPICE computes the ac output variables as a function of frequency. The program first computes the dc operating point of the circuit and determines linearized, small-signal models for all of the nonlinear devices in the circuit. The resultant linear circuit is then analyzed over a user-specified range of frequencies. The desired output of an ac small- signal analysis is usually a transfer function. If the circuit has only one ac input, it is convenient to set that input to unity and zero phase, so that output variables have the same value as the transfer function of the output variable with respect to the input.

Transient Analysis: -The transient analysis portion of SPICE computes the transient output variables as a function of time over a user-specified time interval. The initial conditions are automatically determined by a dc analysis. All sources which are not time dependent (for example, power supplies) are set to their dc value. The transient time interval is specified on a .TRAN control line.

Pole-Zero Analysis: -The pole-zero analysis portion of SPICE computes the poles and/or zeros in the smallsignal ac transfer function. The program first computes the dc operating point and then determines the linearized, small-signal models for all the nonlinear devices in the circuit. This circuit is then used to find the poles and zeros of the transfer function.

Two types of transfer functions are allowed: one of the form (output voltage)/(input voltage) and the other of the form (output voltage)/(input current). These two types of transfer functions cover all the cases and one can find the poles/zeros of functions like input/output impedance and voltage gain. The input and output ports are specified as two pairs of nodes. The pole-zero analysis works with resistors, capacitors, inductors, linear-controlled sources, independentsources, BJTs, MOSFETs, JFETs and diodes. Transmission lines are not supported. The method used in the analysis is a sub-optimal numerical search.

Small-Signal Distortion Analysis: -The distortion analysis portion of SPICE computes steady-state harmonic and intermodulation products for small input signal magnitudes. If signals of a single frequency are specified as the input to the circuit, the complex values of the second and third harmonics are determined at every point in the circuit. If there are signals of two frequencies input to the circuit, the analysis finds out the complex values of the circuit variables at the sum and difference of the input frequencies, and at the difference of the smaller frequency.

Distortion analysis is supported for the following nonlinear devices: diodes (DIO), BJT, JFET, MOSFETs (levels 1, 2, 3, 4/BSIM1, 5/BSIM2, and 6) and MESFETS. All linear devices are automatically supported by distortion analysis. If there are switches present in the circuit, the analysis continues to be accurate provided the switches do not change state under the small excitations used for distortion calculations.

Sensitivity Analysis: -Spice will calculate either the DC operating-point sensitivity or the AC small-signal sensitivity of an output variable with respect to all circuit variables, including model parameters. Spice calculates the difference in an output variable by perturbing each parameter of each device independently. Since the method is a numerical approximation, the results may demonstrate second order affects in highly sensitive parameters, or may fail to show very low but non-zero sensitivity. Further, since each variable is perturb by a small fraction of its value, zero-valued parameters are not analyzed.

Noise Analysis: -The noise analysis portion of SPICE does analysis device-generated noise for the given circuit. When provided with an input source and an output port, the analysis calculates the noise contributions of each device (and each noise generator within the device) to the output port voltage. It also calculates the input noise to the circuit, equivalent to the output noise referred to the specified input source. This is done for every frequency point in a specified range. The calculated value of the noise corresponds to the spectral density of the circuit variable viewed as a stationary Gaussian stochastic process.

After calculating the spectral densities, noise analysis integrates these values over the specified frequency range to arrive at the total noise voltage/current (over this frequency range). This calculated value corresponds to the variance of the circuit variable viewed as a stationary Gaussian process. [6, 7, 8, 9, 10, 11]

#### III. CONCLUSION

The sky is the limit with electronic devices and topologies. You can start with some high-level functional blocks. As the design takes shape, fill in the details with components until Presto. Your creative

synthesis has given birth to a circuit ready for actual prototype and further verification.

Note: -Now a day due to Covid -19 Pandemic condition education field is totally affected in comparison with other fields. So simulation is necessary for to give the realistic experience to the students. For this teachers should be techno friendly and sufficient technical infrastructure should be available.

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# Study of Voltage Regulator Using B2 Spice, Tina & Circuit Maker

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#### ABSTRACT

#### Article Info

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#### Publication Issue:

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## Article History

Accepted: 02July2021 Published:25 July, 2021 This paper addresses the study of voltage regulator using PSPICE and TOP SPICE. Spice stands for "The Simulation Programme for Integrated Circuit Emphasis". Traditionally electronic circuit design was verified by building prototypes, subjecting the circuits to various stimuli and measuring its response using appropriate laboratory equipment's. It is time consuming, instead of this if we use various SPICE software's, we can perform the number of analyses of the same circuit virtually. Virtual results are very close to the actually build circuits. It gives new ideas that could lead to improve the circuit performance. As well gives idea about the configuration of electronic components. It saves the time for to develop the proper circuit design for the special purpose.

Keywords: - Prototype, Spice, Virtual design

## I. INTRODUCTION

SPICE is a great tool to learn a lot in a short time. Also, busy lives and limited budgets can make experimenting with real parts and expensive equipment nearly impossible. What may take you an hour to wire up in the lab to get a minor concept could be covered in a few minutes with SPICE. For example, how does an amplifier's gain vary with bandwidth? Before the circuit parts were even collected, you can get hands on experience with the gain-bandwidth trade off. While text and equations tell you the story, a simulation can clarify the concept and drive it home.

Electronic circuit and systems need a stable dc voltage for their intended operation. The required dc voltage is usually obtained by converting the mains ac voltage into a dc voltage. After a sutitable step-up or step-down transformation, the ac voltage is rectified and filtered resulting in to a dc voltage. However, the dc voltage thus obtained d-oes not remain constant with increasing load current, variations in mains voltageand changes in the ambient tempurature. The filtered output is therefore applied a voltage regulator which provides a stable dc voltage at its output.

The lack of regulation of the dc output voltage may lead to distorted output, frequency shift in an oscillator or change of calibrationin measuring instrumnts. Therefore voltage regulator forms an important component in an electronic powersupply. The DC voltage regulator using op-amp is studed with fallowing circuit diagram.

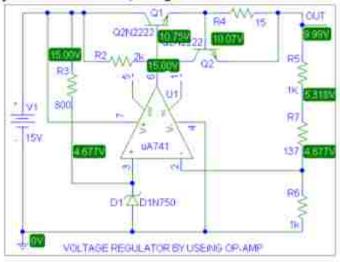
## II. EXPERIMENTAL WORK

In this study we have choose the one circuit of voltage regulator. Same circuit is built in the worksheet or windows of PSPICE and TOP SPICE with same configuration of electronic components as well the inputs and observed the outputs by simulating these. The regulated output voltage Vo is given by

$$Vo (1 + \frac{Rf}{Rt}) Vz$$

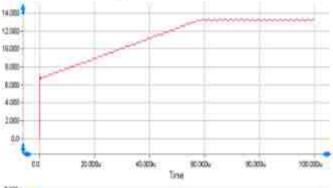
Where R = R5 + R7 and RI = R6

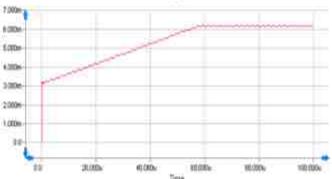
In the simple operational regulator by using a pass transistor Q1 as shown in fallowing figure, the load current can be increased by a factr of 100 as the opamp will required supply only the base current of Q1. The voltage can be adjusted by varying the potentiometer i.e. adjusting the values of  $R_{\mathcal{E}}$ 



- A]. The Following Graphs Shows the Output of Voltage Regulator inB2 SPICETINA &CIRCUIT MAKERSoftware:
- The output starts at 0 Sec.
- At 0 Sec the output potential is 7.02V.
- As the time increases the output potential increase.
- At 57.496µsec, we get the regular output 13.309V.
- After 57.496μsec, we get the regular output, which varies between 13.326V to 13.139V.
- We get the variation in output voltage is about 0.187V.

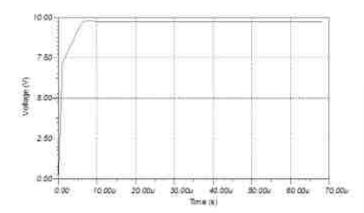
- The output current is 6.206mA.
- We get the variation in output current is about 0.006mA.
- For this, the values of R7 and R5 are 137 Ohm and 1000 Ohm respectively.
- This software does not respond for the change in the values of the R7 and R5.
- Under the same conditions in all circuits in this software, we get out put 13.326 V.
- For to get the regular output it takes the period 60 us.
- in this circuit there is no maximum impact of R7 and R5on the output when we change the potential of the battery to 11 V, we get the regulated output varies between 10.03 V and 10.011V.
- In this software, we get the maximum flucations up to 669.139 μSec for the current.
- We get the variation in the output up to 1.121 msec and after that we get the regulated output potential up to 13.235V. in regular output varies between 13.253V to 13.252V. That is the variation in output is 0.001V.





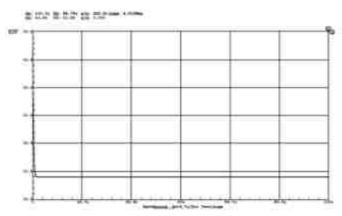
The above graph is the output of voltage regulator using B2 SPICE

- B]. The Following Graphs Shows the Output of Voltage Regulator in TINA & CIRCUIT MAKER Software:
- The output starts at 306.35nSec.
- > At 306.35nSec the output potential is 2.2V.
- As the time increases the output potential increase.
- At 8.12 µsec, we get the regular output 9.78V.
- After 8.12 μsec, we get the regular output9.76V.
- For this, the values of R7 and R5 are 137 Ohm and 1000 Ohm respectively.
- This software does not respond for the change in the values of the R7 and R5.
- For to get the 10V regular power supply it requires Rf 1190 Ohm and Ri 1000 Ohm.
- > 15 V 1190 Ohm 10 V
- 15.5V 1190 Ohm 10.03V
- > 16.5 V 1190 Ohm 10.09 V
- In this software, we cannot observe the variations in the output.



The above graph is the output of voltage regulator using TINA

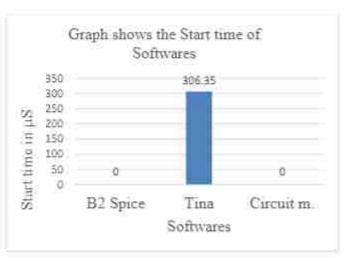
C]. The Following Graphs Shows the Output of Voltage Regulator in CIRCUIT MAKER Software:



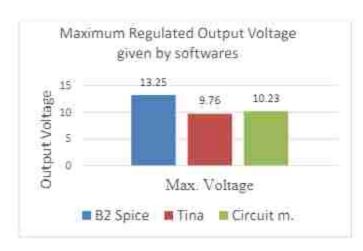
The above graph is the output of voltage regulator using CIRCUIT MAKER

- Under the same conditions in all circuits in this software, we get out put 10.23 V.
- For to get the regular output of 10 V takes the period 1.67uS.and requires a Rf 1089 ohm.
- this software is most sensitive for the change in the values of the resistances.
- In this software we get the maximum fluctuations up to .9 μS.

0
306.35
0



Software	Max. Voltage
B2 Spice	13.25
Tina	9.76
Circuit m.	10.23



#### III. CONCLUSION

The output regulated voltage given by B2 Software is maximum ie 13.25 volt. It is maximum voltage output but there are negligible variations. The tina gives the 9.76 volt non fluctuated output. The Circuit Maker gives the 10.23 volt non fluctuated output.

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# STUDY OF RC COUPLED AMPLIFIER USING PSPICE AND TOP SPICE

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#### ABSTRACT:

This paper addresses the performance of RC coupled amplifier using PSpice and Top Spice electronic circuit simulation software's. Traditionally electronic circuit design was verified by building prototypes, subjecting the circuit to the various stimuli and then measuring its response using appropriate laboratory equipment's. Prototype building is somewhat time consuming. But produces practical experience from which we judge the manufacturability of the design. Computer programs that simulate the performance of an electronic circuit provide a simple cost-effective means of confirming the intended operation prior to circuit construction and verifying new ideas that could led to improve the circuit performance.

Keywords: - RC Coupled amplifier. Amplification, Transient Analysis, Simulation.

#### INTRODUCTION:

The evolution of electronics technology almost in to every facet because of low cost, reliability and ease of interface [1]. The electronic industry is getting progressively more and more efficiently more at new products in wide range and verity of circuits in service of human being. We also saw the more and more products coming in to the market in shorter time [2]. Hence low-cost circuit design, with an accurate, linear and faster testing techniques are addressed. A verity of electronic components PSpice commercially available which plays an important role in design development of accurate circuit design performance and optimum reliability [3].

#### SIMULATION:

Electronic simulation of circuit function is now a common practice in the design of individual circuit and the complete systems. The most of the circuit designer can simulate, and design the circuit and develop it as early as they can and hence in market [4]. Spice software models for common circuit elements, active as well as passive, and it is capable of simulating most electronic circuits. It is versatile programmed and is widely used both in Industries and Universities. [5]. The circuit performance and its reliability in any circuits for to minimize the failure can be tested. To meet the required standard of the circuits and hence quality instruments, the circuit analysis is performed. In case of any failure or problem on can easily redesign it by modifying the very same circuit in a few minutes using highly sophisticated simulation tools [6].

The role of spice software's is very vital in all fields of engineering and industries for the design and built the electronic circuits. Today many groups around the world are investigating advanced software capable of responding a wide verity of components. Recent years have witnessed the excellent



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progress in the field of spice software. These improve the ability of users to integrate different types of electronic circuits in to their systems or applications. The spice software would have more capability to design and built electronic circuits in wider range of applications.

Theory of RC coupled amplifier: - A transistor amplifier is designed to work in the active region. A single stage amplifier is designed using voltage divider bias. In a voltage divider bias

$$V_B = V_{CC} \frac{R_2}{R_1 + R_2}$$

Applying Kirchhoff's Voltage Law for the output side of amplifier

$$V_{cc} = I_cR_c + V_{cE} + I_ER_E$$

$$l_E \cong l_C$$

$$R_{C} = \frac{V_{CC} - V_{CE} - V_{E}}{I_{C}}$$

$$V_{\mathcal{E}} = I_{\mathcal{E}} R_{\mathcal{E}} \cong I_{\mathcal{C}} R_{\mathcal{E}} \qquad : \qquad R_{\mathcal{E}} = \frac{V_{\mathcal{E}}}{L_{\mathcal{E}}}$$

## Design of R1, R2, f & CE

For a fluctuation in IR1 and IR2 there will be small change in Is. For example, if Is = 21 Is and a 5% change in A: occurs there will be only  $\frac{5}{2}$ % change in Is. Therefore, the circuit will be stable against small changes in R1 and R2 due to temperature or tolerance.  $R_2 \le \frac{BR_E}{40}$ 

$$V_B = V_{BE} + V_E \qquad \qquad ...$$
 
$$R_2 = \frac{\beta R_E}{10}$$

$$V_R(R_1 + R_2) = V_{CC}R_2$$

$$R_1 = V_{CC} \frac{R_2}{V_S} - R_2$$

The coupling capacitor Cin along with resistance combinations shown in fig forms a high pass filter whose cut-off frequency, f =

$$\frac{1}{2\pi Rc}$$
 ...  $C_E = \frac{1}{2\pi R_E f_{1E}}$ 

Some tolerances have been made in order to obtain standard values of components. All capacitors are designed to obtain a fair frequency response curve.

## Transient Analysis:

In Transient Analysis, we perform the simulation of the circuit and analyze the output voltage with respect to time. For this maximum simulation time and the time limit are set in the corresponding parameters window. Then simulation is performed with 'Display Waveform' option enabled. The output of the amplifier is viewed in the Waveform viewer. The user also has the provision to simulate with print and plot outputs [7]

#### CONCLUSION:

When we built the RC coupled amplifier circuit of same configuration in PSpice & Top Spice software's we observed the above results. These are very close to the actual built of circuit results. Means these software's are useful for to build and design the number of electronic circuits for the human welfare, are the time sever as well useful for the virtual education in pandemics condition and fulfils the anytime anywhere lab requirements.

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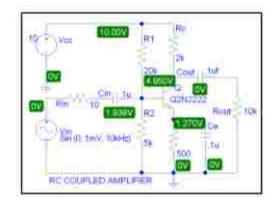
Top SPICE/Win32 version 7.16c by panzer development www.penzar.com

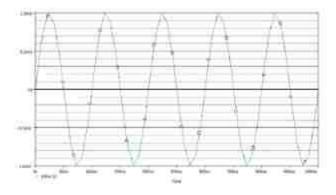
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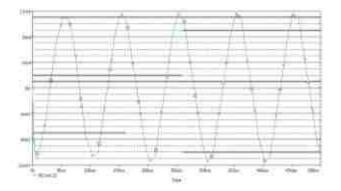
RC Coupled Amplifier htm.

Circuit diagram of the RC coupled amplifier

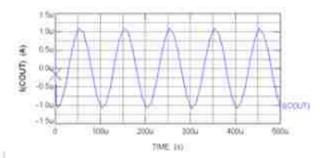
Input signal given to the RC coupled amplifier has amplitude 1 mV. [PSpice Software]

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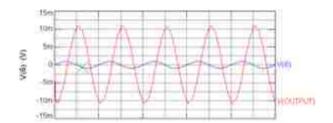




Output signal given to the RC coupled amplifier has amplitude 1 mV. [PSpice Software]



Output signal current given by the RC coupled amplifier has amplitude 12 µA. [Top Spice

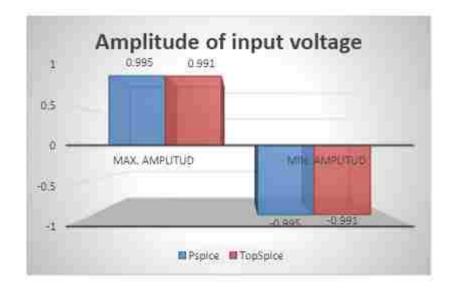


Input signal has the amplitude 0.991 mV, Output signal given to the RC coupled amplifier has amplitude 11.071mV. Top Spice

## The following table shows the maximum and minimum input signal amplitudes in mV

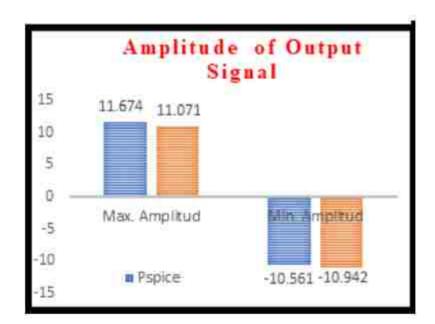
Software	Amplitude of the input signal	
	Max. amplitude	Min. Amplitude
P Spice	0:995 mV	+0.995 mV
Top Spice	0.991 mV	-0.991 mV





## The following table shows the maximum and minimum signal amplitudes in mV

Software	Amplitude of output signals		
	Max. Amplitude	Min. Amplitude	
Pspice	11 674 mV	-10.561 mV	
Top Spice	11.071 mV	-10.942 mV	



### Accident Alert System Dr. Sanjay K. Tupe

Department of Physics, Kalikadevi Arts, Commerce & Science College, Shirur (Ka.), Dist. – Beed. 413249. Maharashtra, India

Abstract- The rapid rise of technology and infrastructure has made our lives easy. In the high demand of automobiles has also increased the traffic hazards and road accidents, life of the people is under high risk. In India there is very high rate of accidental death rate due to lack of medical help. There is also we observed the deficiency of alertness of accidents to the respective accident care departments / relatives. Our project (Idea) give proper information to the Owner, Relatives, Police Station, Nearest Government Hospital, Ambulance to save the life of Injured Persons in accident.

Keywords- Accident Alert System.

Introduction- We have collected some data from various resources which gives us the fearfulness regarding with accidents. Numbers in the following tables are really horror. We observe day by day the number of accidents is increasing. In the same lot of peoples lost their souls. Some are gating permanent disability. But if we can alert the proper lifesaving systems, we can decrease the death as well as permanent disabilities. In India the number of peoples martyrized on border till date are comparatively to much less than the peoples died or disabled in the accidents of one year Following data gives us the terrible information about the Accidents.

Parameter	2016	2017	% Change
No. of Road Accidents	480652	464910	-3.3
No. of Deaths	150785	147913	-1.9
No. of Persons Injured	494624	470975	-4.8

No. of Deaths in Accidents across India2

Year	No. of Deaths
2018	151420
2017	147910
2016	150790
2015	146130
2014	139670
2013	137570
2012	138260
2011	142490
2010	134510
2009	125660

- In India there are number of peoples dies due to unavailability of Emergency Medical Help when they
  meet an accident.
- 2. 377 people dies every day
- 3. 20 Children under Age of 14 dies per day
- 4. 400 fatalities and 411 peoples die per day
- Altogether 30,084 Accidents were reported in Maharashtra Between January and November 2019. In which 11,387 people were killed and 26,428 others Injured.
- In 2016 reported Accidents 4,80,652 and in it 1,36,071 Fatal Accidents.
- 7. In Most of the Accidents peoples were killed due to they don't get Emergency Medical Help.
- 8. In some cases, injured people get help but it's too late
- To Overcome such cases, we have made one of the Alert System. It alerts Ambulance, Police Station and also to the responsible person regarding with that Vehicle.
- This system gives very instant Calling / Messaging to Ambulance, Police station or other family Member within 10 to 15 seconds.
- 11. When any Four-Wheeler or Two-Wheeler Vehicle meets with serious accident, then this Device or System gives instant messaging or calling to Ambulance, Nearest Police Station and any family member by which, those peoples injured during accident, gets instant Emergency Medical Help.
- In some Cases, accidents happened in out of cities area or out from any kind of Facilities. So, such cases.
   This system is Helpful to giving medical help.

### Work out: - The idea / system (We have actually run this system by using the mobile in vehicle, demo purpose)

For to develop this system we can use the various types of sensors their output is given to the microcontroller system. As the Collison takes place with in fraction of second this system activates and message / calls to the above-mentioned agencies. There are two modes of operation 1. Running / stopping mode: - there are the various possibilities of accidents number of times two or more than two vehicles are in running or one vehicle is stopped and other comes and dash / stroked it or due to fault in machine or the mistake of the driver / operator the vehicle collides with the road side obstacles or at the turn vehicle leaves the road and thrown in the valley / pond / well etc. 2. Traffic mode: - when vehicle is in traffic and traffic is blocked for sufficient time it will alerts to the nearest traffic controller agency. It helps to save the time. Different programs are given to the microcontroller chief (IC)

In all above possibilities the programs are given to the microcontroller chief for to alert the various rescue agencies. In the same programming location and nearest route should be activate. The mobile numbers of the above-mentioned agencies are given at the time of programming. After accident automatically these ringing and alert the respective rescue teams and relatives. This system reduces the time delay and victims get the help as early as possible so possibilities of to prevent the deaths or permanent disabilities increases.



Conclusion- Our system is helpful to reduce the death rate and permanent disabilities in accident.

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### INTERNATIONAL JOURNAL OF RESEARCHES IN BIOSCIENCES, AGRICULTURE AND TECHNOLOGY

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### IMPACT OF CLIMATE CHANGE AND GLOBAL HUNGER ISSUES

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Published to 02:2820:

#### ABSTRACT:

Climate change has the potential to make life validerable on the earth and its impact is a matter of great concert among all countries of the world because Human race, in determiny of food couldn't be able for realthy development. Exceeds exerting and the world because Human race, in determiny of food couldn't be able for realthy development. Exceeds exerting the deposit of index the defects on the agricultural sector as well as the species of crops that various communities are able to grow Climate change and Food Security are bound in hand. The annual UN report found that climate variability affecting randial patterns and agricultural seasons, and choose extremes such as droughts and floods are among the key drovers behind the ras as butter and communications. Food insecurity exists when all people, at all times, do not have physical and communications to be sufficient safe and nutritious food to meet their details needs and food preferences for an active and healthy life. New evaluate continuous to again that the number of hangey people is the world is growing reaching 821 minute in 1017 draine in every mise people, according to The litate of Food Security and Nutrition of malmutration are a clear various that there is a little to make sure that Everyone in acture and antenfied on the read rewards a hieveng the Suttannable Development goals on food occurrity and improved nutrition.

Key words. Climate Charge and Agriculture, Food Security Solutions, Schatters for assaurable agriculture

#### INTRODUCTION:

Today the preatest challenges to the food security are the growing world population, environmental degradation, limited natural resources and climate change, in last decade irregular Climate change and extreme weather exents with higher intensity and frequency are seriously affecting the agricultural actor and are creating serious instability in food production and formers livelihood. Changes in climate are affecting the production of major crops such as wheat, juwar, rice and minus, without strengthening environmental and climate insues, this is expected in worsen as

temperature is increasing and becoming more extreme.(1)

From last few reports it is evident that
the prevalence and number of undernourished
people is higher in countries repeated to highly
sensitive to rainfall and temperature variability,
tindernourishment is where a high proportion of
the population depends on agricultural
systems (2). Temperature abnormanties over
agricultural cropping areas continued to be
higher in last decide i.e. 2011-2019, leading to
more frequent droughts.

In 2018, the United Nationa worned that because of climate change burger around the world was a matter of great concern. (3) The

United: Nations Specifically reported that extreme weather events, lamit degradation and descrufication, water sourcity and rising sea: irvels valuesge global effects to eradicate bunger 14) Since 1991s, the number of extreme climate-related disasters including extreme heat, droughts, floods, and storms, all of which harm agricultural productivity and contribute to food shortunes, has been doubled These shortuges result in increases in food pinces and income lusses that reduce access to food for the affected population, in particular, droughts cause more than 80% of the total damage and losses in agriculture and if they are widespread enough they can contribute to national food shortages and thus prevalence of undernounshment (4)

#### Global Hunger Index 2019

The report of Giff on 2018 found that 785 million people were suffering white 822 million were found affected with hanger, GHI highlights that among the 117 countries ranked. 47 countries are in 'serious' and 'alarming' imager levels, india ranked 102 out of 117 countries in the GH I 2019 that is placed at much below to its South Asian neighbors such as Nepal, Bangladesh, Pakistan. The GHI report pointed out that India is suffering from a agnous hunger problem the export highlights. that climate crisis is bringing alaxining levels of hunger in the world[5] Hunger has been on the ruse over the past three years, returning to levels from a decade ago. This reversal in progress. serids a clear warning that more must be done and urgently if the Sustainable Development Goal of Zero Hunger is to be achieved by 2030.

Key facts and figures of Global Hunger

- Number of hungry people in the world in 2017 521 million or 1 in every 9 people; in Ann. 515 million
- Children under 5 affected by stanting flow height for agel 150.8 million (22:236)
- Ehildren under 5 affected by wasting flow weight for height): 50.5 million (7.550)
- Children under 5 who are overweight (high weight for height): 38.3 million (5.6%)
- Peromitage of women of reproductive age affected by unemia: 32:8%
- Percentage of infants aged below 6 months who were exclusively breastfed: 40,7%
- Adults who are obese: 672 million (13% or 1 in 8 adults). (6)

#### Climate Change and Food Security Solutions

To solve a problem of Global Hunger or Food Security the problem should be understood first; its severity, time frame and obstacles to develop proper strategies. The main problem is atmospheric pullution with several greenhouse emmissions which also have to be addressed. Such as industrial age food production which is a large source of emissions. We know that Green Revolution has increased food production but at the same time it has affected environment. a lot. But at the same time solution to lose of food security under climate change is first, solving the glabal climate change problem is also prior but it is not accepted yet so this should also be equally treated. The issue of loss of food production devoted to global warming is a Global Climate Change Food Security

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Emergency. Which is unrecognized and it has to be put forth.

### Genetically Modified Foods:

GM crops are thoroughly evaluated for environmental effects before entering the marketplace. They are assessed by many stakeholders in accordance with principles developed by environmental experts around the world [7,8,9] Among those was conduct risk assessment procedures are the developers of GM crops, regulatory bodies, and academic scientists. GM traits can also bein farmers produce crops that are more resistant to extreme weather conditions. In recent years, several, extreme weather disasters around the world have significantly dismaged regional crop: production (10) reduced pesticide spraying (11) reduced the release of greenhouse gas emissions (12) They are berbiede tolerant (13)no-till cultivation practices [14]

### Green Revolution versus Sustainable Agriculture

to the mid- and tate-20th century a recolution securized that dramatically changed the lield of agriculture, and this resolution was known as the Green Resolution. Because of Green Resolution the productions of global agriculture increased drastically. New Chemical advances were utilized during this time period as a result, high-yield crops were descloped and autoditiced along with multiple coopping. These new farming techniques and advances in agricultural mechanics were utilized by farmers all over the world, which intennied the results of the fareer.

Revolution (15) and made it possible to lead the growing human population. India began its own Green Resolution program of plant breeding, impation, development and financing of agreenements. Testay hulls is exporting lood and thus story is repeated by other nations. (16, 17)

### Organic Agriculture:

In last less years Organic Agriculture has been stepped forward as one of the best practice for addressing Food productivity and Climate Change Organic forming attributes to the phenomena of improving taste and militaive value of produced food. Organic forming also has buindles of Ecological benefits (12, 20, 21) which are:

- Exposure To Harmful Chemicals is Reduced
- Organic Farming Consumes Less
  Energy
- It helps in Reducing Nitrogen Run-Off
   Induced Pollution
- Facilitates Healthy Soil Formation
   and helps inCombating Erosion
- . It Fights the Effects of Global Warming
- B Supports Water Conservation and
  Water Health
- Organic Farming Discourages the Algal Blooms
- . It Supports Animal Health and Welfarr
- · Organic Parming Supports Bushvernity
- Organic Farming is Sustainable over the long term

### Basic Agronomy Practices:

The old agronamic practices help to decreasing orwestment in production of farm produces. This increases the quality and quantity of yield appolicantly. These agrossmic practices help farmer to maintaining the environment by ( ) % 5 A T, hissel (Special-15), Feb 2020: C1-06 A Double-Mind Peer Reviewed & Referred Special

decrease water trange and proper use of fertilizar can maintain the quality of land and incorporate many areas of conservation. Sustainable agranous can lead as into a feture where feeding the world is balanced with protecting preserving and even ergenerating our farmland. Through agronomy changes much be small, but the results are massive. Those practices have yielded import agrificant decidends that farmers enjoy. Some of the best agreement practices include [22, 23]:

- Land Preparation, Sertilizers and Method of Straing
- · Reducing water unage
- · Soll tillings
- · Manage plant populations
- · Seed Rate and Seed Treatment
- Selection of Drought-Resistant
   Varieties
- . Early Maturing Varieties
- . Wider Spacing
- Cover crops
- The most important 4R which are used in agreemy ex;
  - > Right multipart application rates
  - Right application methods
  - States application timing
  - Right nutrient source.

#### Plant Based Diet:

his a fact that food systems are impordrivers of poor health and environmental degradation global effects are meeded trigently for collective transform of diets and food production (24) Many attalies have reviewed the effects of food production on human health and the environment, which communicated that a dietary shift toward plant foods and away from animal products in committee for premotion of former health and planet (25).

As per the report of Libertick's Long. Shudon Asimal agriculture is responsible for emission of greenboune pairs. Citale's groung contributes to chimate charge by producing a lor of gas such as methors and O.D. (Mr The small used in racing assesses mad be used in streaming human hunger. Earning plant find can also help to proventing permature duction from hourt disease, disberey, and prior element conductes every year, Aller many researches it is esident that Inestock farming recourses a agrificant amount of unter the production of ment. For instance 13.500 feers of wants into used to preduce Dig of bod main. Assent ligating also pollutes water source us the waste professed by the freestack mids up in bolderways, (20)

#### CONCLUSION

Many stuttes have come forward regarding impacts of climate change on agriculture and its effect on food accurriy. From those studies it is clear that impact of climate on final security is arrious, and thus we have to go for energ research that directly informs the accommeeded to turkle head security challenges. At the same time fixed systems most transformation opinion in the casting decides, he which we have to go for some challenges such as Change the research culture, incolvement of extender engagement, pourtises of whiteholder . communities, athersing social melicino through a focus on people who are most subscrabbe to constitute strange and to address edisprenery and mingmen together in the content of Bud. somethy, as form, parment unit global levels. Tomost those challenges, we must work with

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policy makers, to devise sensible options that meet current needs and capacities, we have to try our best and team from the experiences.

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### Vision of Dr. Ambedkar about Women and Status of Modern Women in India

Dr. Chatana V. Donglikar, H.O.D. Home Science.
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#### Abstract:

There have been innumerable debates about gender in India over the years. Much of it includes women's position in society, their education, health, economic position, gender equality etc. What one can conclude from such discussions is that women have always held a certain paradoxical position in our developing country. While on one hand, India has seen an increased percentage of literacy among women, and women are now entering professional fields, the practices of female infanticide, poor health conditions and lack of education still persisting still continue. Even the patriarchal ideology of the home being a woman's 'real domain' and marriage being her ultimate deatiny hasn't changed much. The matrimonial advertisements, demanding girls of the same caste, with fair skin and slim figure, or the much criticised fair and lovely ads, are indicators of the slow changing social mores. If one looks at the status of women then and now, one has to look at two sides of the coin; one side which is promising, and one side which is bleak. Today, the modern woman is so delt and self-sufficient that she can be easily called a superwoman, juggling many fronts single-handedly. Women are now fiercely ambitious and are proving their metal not only on the home front, but also in their respective professions.

Key Words; status of Women in India, Vision of Dr. Ambedkar about women,

#### Introduction:

The vision of Dr. Ambedkar about women is explicitly depicted in Indian Constitution. Dr. Ambedkar tried an adequate inclusion of women's right in the political vocabulary and constitution of India, i.e., Article 14 Equal rights and opportunities in political, economic and social spheres, Article 15 prohibits discrimination on the ground of sex, Article 15(5) enables affirmance discrimination in favor of women. Article 39 Equal means of livelihood and equal pay for equal work, Article 42 Human conditions of work and maternity relief, Article 51 (A) (C) Fundamental ditties to renounce practices, decogatory to the dignity of women. Article 46 The state to promote with special care, the educational and economic interests of weaker section of people and to protect them from social injustice and all

forms of exploitation, Article 47 The state to raise the level of nutrition and standard of fiving of its people and the improvement of public health and so on, Article 243D (3), 243T (3) & 243R (4) provides for allocation of seats in the Panchayati Raj System and many others. The principle of gender equality is enshrined in the Indian Constitution in its Preamble, Fundamental Rights, Fundamental Duties and Directive Principles. He had down the foundation of social justice and there can be no social justice without gender equality. (1)

In time with the global phenomenon, educated Indian women seem to have formed a vision of equality with men. They have acquired a tremendous zeal to secure what they call 'lost rights.' They no longer consider themselves silent spectators in this dynamic world situation, but feel an argent obligation to action and role-contribution. They arge breaking away from hackneyed traditions, warped social thinking and double standards of morality, that have blocked the worthwhile contributions they could make to the country's welfare. They have the vote of course, they have legal rights, abortions has been legal for many years now, they can aspire or be elected to any office in the country that men have access to. And yet, in spite of all this, many find themselves trapped in stereotyped roles.

The status of women in India has been subject to many changes over the span of recorded Indian history. Their position in society deteriorated early in India's ancient period, especially in the Indo-Aryan speaking regions, (2.3,4) and their subordination continued to be reified well into India's early modern period. Practices such as female infanticide, dowry, child marriage and the taboo on widow remarriage, have had a long duration in India, and have proved difficult to root out, especially in caste Hindu society in northern India (5,6). Women's rights under the Constitution of India mainly include equality, dignity, and freedom from discrimination; additionally, India has various statutes governing the rights of women. (7,8) So in this view while atodying the status of modern women we have to mainly study the;

- Edocational Status
- Health Status

- Political Status
- · Economic Status
- Safety and Crime Status

#### Educational status

The 2011 census report indicates that literacy antong women is only 65.46%. It is virtually very disheartening to observe that the literacy rate of women in India is very lower to the National Average i.e 74.04%. The growth rate of women's exhication in rural area is very slow. This obviously means that still large womenfolk of our country are illiterate. Moreover in India education is available equally to women. Gender inequality is reinforced in education which is proved by the fact that literacy rate for the women is only 65.46% against 82.14 of men as per census 2011.

### Political Status

Indian constitution has provided women two important political rights, female enfranchisement and eligibility for the legislature. India has one of the highest numbers of female politicians in the world. Women have held high offices in India including that of the President, Prime Minister, Speaker of the Lok Sabha and Leader of the Opposition. The Indian states Madhya Pradesh, Bihar, Littarakhand, Himachal Pradesh (11) Andhra Pradesh, Chhattisgarh, Jharkhand, Kerala, Karnataka, Maharashtra, Orissa, Rajasthan and Tripura have implemented 50% reservation for Women in PRI. (12, 13). Majority of candidates in these Panchayats are women. Currently 100% of elected members in Koussery Panchayat in Kerela are women (14).

### Health Status

The rates of malnutrition are exceptionally high among adolescent girls and pregnant and factating women in India, with repercussions for children's health (9,15). The SRS 2018 estimates showed a Crude Birth Rate (CBR) of 17.86 and General Fertility Rate (GFR) of 2.2 at all India level. Literacy leaves its mark as fertility rate declines in both rural and urban areas. The Maternal Mortality Ratio (MMR) has declined from 301 to 178 in 2011 - 13. In 2019, the Infant Mortality (IMR) of females was 32. The life expectancy for females was 70.2 for females and 67.4 years for males as per health profile released in 2019, depicting higher life expectancy of females as compared to males (16).

#### Economic Status

In both rural and urban regions of India today we see a remarkable increase in household women becoming workers. They are successfully giving competition to men and their number is steadily increasing, though small in number but today women are are making remarkable impressions in IT Sector, Multi sector, Entrepreneurship, Medical, Engineering, Architecture, Law, Government Jobs and even in Army, air force and Navy to even at ground level such as auto driver, Taxi driver, bus Conductors reporters and many more. Employment is giving women economic independence and feeling of importance and boosted their self-pride and confidence. In order to protect women interest in economic growth government is now undertaking various socio economic legislations, which cover areas such as rights to property or inheritance, equal wages, working conditions, maternity benefits and job security.

According to the 'Kotak Wealth Hurun - Leading Wealthy Women 2018' list, which compiled the 100 wealthiest Indian women based on their net worth as on 30 June 2018 Shaw was only one of two women, the other being Jayshree Ullal, who did not inherit their current wealth from family relatives in the top ten.(17)

### Safety and Crime Status:

Crime against women such as rape, acid throwing, dowry killings, honour killings, and the forced prostitution of young girls has been reported in India. (18, 19, 20) Police records in India show a high incidence of crimes against women. The national data on crime was released by the National Crime Records Bureau (NCRB) and termed India as the world's most dangerous country for women due to high risk of sexual violence (10). The crimes rose from 3,793 per million in 2016 to 3,886 per million in 2017. This means, 100 more crimes took place per million people in 2017 compared to the previous year, though crimes such as murders and rapes have come down.

A few states, in particular, Kurnataka, Kerala, Tamil Nadu, Punjah, Rajasthan and West Bengal showed a decrease in crime tales, but most others continue to see a rise in crimes. Incidents of theft have increased at the fastest rate. In Delhi, the crime rate rose by 8% in a year. This is the fastest rate of growth among all states in India and translates to 11,500 crimes reported per million.

These crimes act as barriers to their empowerment and establishing equality in terms of gender. This puts a constant constraint on individual and societal development and has heavy economic costs. According to the World Bank report of 2018, violence against women is estimated to cost countries up to 3.7% of their GDP. This amount is more than double of what most governments spend on education (21)

#### Conclusion:

The path towards total gender empowerment is full of potholes. Over the years, women have made great strides in many areas with notable progress in reducing some gender gaps. Yet realities such as 11,332 women and girls getting trafficked every year, and increased

practice of downy, rape and sexual harmsment hit hard as most all the development that has taken place. Thus, if or one hand women are elimbing the ladder of success, on the other hand she is mustly suffering the violence affined to ber by her own family members. As compared to the part, women in modern times have achieved a lot put in reality they have to still travel a long way. Women may have left the secured domains of their home, but a least, crimi, exploitative world awaits them, where women have in prove their talent against the world who see women as merely vassals of producing children. The Indian women has to make her way through all the socialized prejudices anatom her, and the men yet have to allow and a cept the women to be equal participants in the country's way forward.

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### Factors Responsible For School Dropout In Shirur (Kasar); Especially Girls

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#### Abstract:

Dropoul from education is a major issue of concern for Indian government now days Government has launched various educational developmental programs to improve female enrollment in schools and calleges hat still their position is getting worst day by day. In Backward rural areas like Shirur (Kasar), girls are facing various problems in regards of completing their education even up to higher secondary. Rarely girls complete higher education only to get some degree for finding a better half from a well settled background. Dropoul of girls from education is related with aspects like individual, family school and social problems. The main Factors related to these aspects are poor interest in studies or negligence by parents, taking on parenting jobs and responsibilities, being left to the care of relatives, arthodox and traditional mentality of people. Discrimination in family expenses of downy, incidents of sexual harassment in, and on the way to, school, low socio-economic and educational status of family, poor infrastructure of school madequate number of female leachers, Low job satisfaction of wachers, lack encouragement from the school towards parents and many other individual factors are related with girls dropout from education.

Key words: Carls dropout low socio-economic status and dropout of girls. Discrimination in education of girls. Social factors of dropout.

#### Introduction:

It is said that approximately the present billion populations will but to 1.57 billion by 2050. But unfortunately these youngsters are unable to receive adequate education facilities. Today India's education system is in gloomy state. (1) Dropout has become a universal phenomenon of education system in India, at all levels of education, near about in all parts of the country and across all the socio-economic groups of population.

Though Government has enacted various schemes to ensure compulsory and free education to students for economically and socially backward student, increasing student dropout rate in Maharashtra is a matter of great concern. The dropout rate at upper primary and higher secondary levels in Maharashtra is continuously increasing. The dropout rate of has risen from 1.06% (2016-17) to 1.56% (2017-18) at primary level, whereas at HSC level it has increased from 2.4% (2016-17) to 2.9% (2017-18). (2) There are multiple factors responsible for student dropout from education. Many times because of socio-economic problems of family and domestic problems a negative environment is created which negatively affects the value of education. Dropout effects on overall personality of students as failure to complete high school and higher education not only produces negative outcome for the individuals, but also widens the existing social and economic inequalities.

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Children who are admitted in primary schools are unable to complete their secondary education. Factors like poor socio-economic status of parents; schooling patterns of siblings physical problems related to school, social problems and many other contribute in school dropout especially in rural areas. To avoid the educational loss and keep the stratents in continuous education process, children are promoted to the next grades based on sheer attendance. But they are unable to grasp the studies, which leads to inferiorny complex in them. Beside this students have to face basic problems of family & society is they wish to continue their education this leads to education dropout.

### About the study:

Present study is a small scale preliminary study conducted by undergraduate students in Taluka Shirur (Ka) as a part of Third year Project, in order to evaluate various factors responsible for student dropout.

### Objectives

- The main objective of this study is to identify the prominent factors that lead to student drop out from schools in rural areas.
- To investigate individual, school and social issues and challenges faced by students especially girls while pursuing education.

### Data Collection and Sampling Method:

The study based on Random sampling method, 100 Students were randomly selected tostudy from secondary to undergraduate grades for collection of the data. Data was collected by using open ended questioner. After testing the questionnaire the results note assessed by using simple percentage frequency method. Recommendations at the end of study may help controlling dropout to some extent.

### Locale of study and its Social Demography:

Marathwada is economically backward region of Maharashtra its HDI is 0.676 (3). Beed district is a part of Marathwada region. Near about 75 percent of the people leave in villages, 67 percent of population is below poverty line. This region is mostly prone to frequent droughts. To earn livelihood over S-6 lakhs people migrate annually to work in the sugarcane cutting industry. As per a research based on IndianNgos.com based on 586 districts throughout India, the district ranks 143rd in literacy in India; (4) On Human Development Index (HDI), using UNDP method, Out of 30 districts of Maharashtra Beed ranks 18th, with 0.47 HDL It is 7th poorest district in the state with Human Poverty Index (HPI) of 21.21.(5,6)

### Taluka Shirur (Ka):

Taluka shurur (ka) is one of eleven talukas of Beed district. Agriculture or related work is the main occupation of people. Nearly 50% of people migrate to western Maharashura for sugarcane cutting labor, living behind their children to work in their own fields along with their relatives. Percentage of literacy is low i.e 53.31 %, male literacy is 62.81 %, and female literacy 37 80 %. People who don't have their own lands labor in others fields with children left behind by their parents. Children from 7-14 years are engaged in agriculture child labor. Mostly collor collection is the labor performed by these children, along with other agricultural and domestic work especially by girls.

Sharar (Ka) is a drought prime area. Frequent drought is a major problem, which affects people on all fronts of life in Shirur (Ka). Many children live in fodder camps to feed their cause by dropping-out school. Lot of children drop out from their schools and help their parents

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in providing starty needs of family by working on others fields, being irresponsible for their health, chridhood and studies.

Table I. Reasons of student dropout in education from secondary to undergraduate level

Sec	Reasons of Secondary dropout Girls	Secondary grade		Higher Secondary to a grade		raduate	
		Girls	Boys	Girls	Boys	Girls	Boys
1	Poverty	20%	33%	44%	48%	3604	104
2	Family Responsibility	28%	15%	33%	331	301	52%
3	School Distance	D894	25%	55%	415	270	
5	School environment and infrastructure	17%	48%	55%	20%	28%	32%
6	Social problems	15%	20%	61%	42%	24%	20%

#### Results

From the results of present study it is evident that most of the female student dropout from school at higher secondary stage because of the reasons indicated in the table among which social insecurity, school environment and infrastructure, school distance and powerty are prominent. Whereas dropout rate of male students was seen more in case of family responsibilities and school distance at undergraduate level and school environment of secondary level. So study of various factors responsible for student dropout becomes more important.

### Responsible factors of girls' drop out from education: Family environment and its socio-economic status:

While studying parental reasons for school drop-out it was observed that poor interest or negligence by purents, taking on parenting jobs and responsibilities, being left to the care of relatives or grandparents,(7) discrimination against female child,(8) gambling- alcoholusm and other vices in father parent death, parent disputes, illiteracy of parents, anxiety to family dienity, parental force or compulsion of their interests etc. are prominent. As mentioned above, from Shurur (Ka) more than 50 % people migrate to nearby district and western Maharashtra for labor leaving their children with their relatives, who use these children for domestic and other

Carl's education is also affected because the expenses of down problem, the changes of parls being educated are reduced and meidents of Child Marriage increased (9, 10) A Harvard School of Public Health survey (11) has conducted a study in Guiarat to study rates of child marriage, they found that of guls aged 14-17, 37% were engaged and 12% married. The orthodox and traditional patterns of society are also a condemning cause of girls drop our from education. The dropout rate of girls is higher than that of boys. In contest of socio-economic conditions of family. Illiteracy, poverty, madequate earnings and poor fiving conditions or parents force them to withdraw their children from school but also put them in various types of jobs for contribution to the family meome (12)

### Social Problems related to school dropout

Fravelling to school has become a matter of major concern in rural areas especially for alone girls. The recent events have highlighted this problem prominently in regards to school dropout of juris. Events like eve tensing, tainting, several barassment on the way to school say dropout of juris. Events like eve tensing, manning and socially backward object on schools have generated several problems in economically and socially backward object the

School environment factors responsible for girl's dropout:

environment factors responsible for great a disadvantage in regards of school infrastructions. Rural schools are substitution condition because of lack of sufficient forms. Rural schools are substantiany in a distance of lack of sufficient funds the first assumed lungroper building condition because of lack of sufficient funds for the first instance lungroper banding control in the rural areas have madequate equipment to the major problem Schools in the rural areas have madequate equipment required for an effective teaching / learning process.(15)

Access to the schools due to lack of proper link roads and travelling resources to a major Access to the schools due to law or property poor transportation facilities. This specifically problem in rural areas. These villages have very poor transportation facilities. This specifically creates difficulties for the children during the rainy season.(16)

Clean drinking water and proper sanitation is the basic need of any educational institution by c from drinking water and proper summaring lack these facilities. (17, 18) Female student coming from distant villages have to spend the whole day in schools and colleges in absence pure clean water for drinking and sanitation and separate girl's toilets.

Scrious conditions are created for guls at the time of menstruation period. It is a slimning fig. that near about 50 % schools in taluka Shirur (Ka) doesn't have sufficient tealer and tambérs medities especially for girls and if they have, they are maintained so pathetically. Almost 23of adolescent girls within the age-group of 12-18 drop out of school after they man menstruating, (19, 20, 21)

The ratio of female teachers to female students in schools is very low. This creates a inscensiin minds of girls (22) The major problem in this case is again the same of distance of school from villages and improper travelling facility in case of female teachers. Patents lack encouragement from the school, this is a fact, particularly in the case of girls this results in his of faith for the school as an instrument of social promotion. The one more major came of school dropout is discrimination at school among students of different easte communigender and status also leads to dropout

### Student Centric factors of dropout:

Adolescence is a period of metamorphosis from childhood to adulthood: it's a entiral position in the life span of human beings. Physio- psychological changes is the impunit aspects of adolescence. Attraction towards opposite sex is often seen in this age in ladia. context especially in rural areas, this becomes a matter of family dignity and pride on the purof gul and ultimately leads to dropout (23)

Besides this, transient or prolonged illness, accidents, disabilities or handicaps with child, early menarche or marriage of the child, disinterest in studies, distraction in play or games inferiority feelings, behavioral problem in child, deficient academic performance carning money for family, punishment fear by teacher, love affairs, pessimistic attitude toward education because of unemployment, pride and ego in children, etc are the other factors responsible for student dropout especially in rural areas

### Recommendations:

School dropout is very intricate with multiple interwoven factors responsible to the complex situation. This paper highlights the issues of student dropout with reference to children living in Rural Shirur (Ka) of Beed district. Though there is variety of reasons for the dropost following interventions could be made to combat and reduce dropouts:

Socio-economic status variables are unable to change but school variables such a access to schooling facilities attendance improvement in infrastructure flexible conscious

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location of school and teacher motivation could be modified to improve the confinement rate of student dropout

- The transport facility must be organized for sife and convenient access to school and colleges by government and education institutions
- Financial constraints are the major causes of dropout so children may be given stipends, scholarships, free uniform, free text books, free stationery items up to secondary level of education
- Parents' opinion and expectations in regards to school for their child must be considered.
- To overcome academic deficiencies at the elementary levels of education it is necessary to built up bridge courses or special classes during the summer break
- More skill oriented courses should be introduced with the students being given the option to choose a course of their choice
- Organizing regular health check up camps, distribution of medicines, counseling, and referring the critical cases for further diagnosis will be helpful.
- The cultural gap between parents and teachers should be bridged through more elaborated forms of participation in the school's management and control.
- Certain implications should be made for girls' safety and security, caroliment and retention.
- Formation of committees in schools, colleges and universities to deal with sexual harassment should be activated properly

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February 2020 Special Issue-22 Vol.7

# **Current Global Reviewer**

Chief Editor Mr. Arun B. Godam

**Guest Editor** Principal, Dr.Aqueela Syed Gous

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### Developmental Challenges Of Adolescents

Dr. Chetana V. Donglikar HOD Home Stence Kalikadeci Arts Commerce & Science College, Shirur (km.) Dist. Bood.

#### Abstract:

The experience of adolescence is very complicated because of factors that have both positive and negative office. Researchers have proved that economic problems are associated with disturbed families and difficulties for adolescs. that promote tisk-taking behavior for them. But positive parenting methods can also give positive outcomes for Adolescents. Peers are associated to their identity development. The effect may be positive or negative depending on the experiences. Also strong relations with teachers and peers at school could be associated positively as well as negatively Communities also have Specific characteristics that are supportive of positive adolescent development. The most important of all is the rapidly expanding universe of social media has a profound influence on adolescence that affects exolute norms for many believiors, particularly on artifude towards sex and sexual activities. Along with negative impact motion also a powerful tool for influencing young people in a positive direction. There is an urgent need to mirrore the inmenter potential of young people as partners in progress of Nations, and at the same time in processos that address their specific needs desires and aspirations. If the adolescents flourish, communities also flourish so all of us have to work collegands and responsibly to ensure that adolescence could become an age of opportunity.

Key Words: Profitted Development of Adolescents. Development issues of Adolescents. Adolescent challenges Introduction:

About 1.2 billion adolescents used 10-19 are in the world i.e. near about 18 % of the global population, more time 243 million adolescents i.e. a quarter of the country's population is between 10-19 years, no country has this more some people (1) The youth (c 15-24 years age population of India accounted for 17 8% of the world population by 2010, 8 in estimated that by 2030, India's Youth population would account for 17,97% of global population (2)

The largest generation in history are preparing to make a transition from child hood to adulthood a page characterized by rapid growth and physical changes accompanied by risky behavior patterns (3, 4, 5). Being a key to fund development young people are critical social changes agents for fostering economic development and rechnological innovation (6) Adolescence is a period of bisexual transition between childhood and adulthood (7) In this period the biogrows very rapidly with many physical changes (8) Also on the psychological side there is acute self consequences. rebelliousness and idealism. Adelescence is a crucial period for developing and maintaining social (9) and emotional lotter important for mental well-being (10) These include adopting healthy sleep patterns, taking regular excreise developing coping, problem-solving, and interpersonal skills; and learning to manage emotions (11)

Adolescence is a distinctive and developing period. Various physical, emotional and social changes, exposite poverty, any types of abuse or violence can make adolescents exposed to mental health problems. Promotion if psychological well-being and protecting adolescents from unfavorable experiences and risk flictors which may impact their potential are entread for their physical and mental well-being in adulthood. So before going further it's important to see some important key facts related to today's adolescents (12)

#### Key facts related to adolescents in world

- One in say people are aged 10-19 years
- Mental builds conditions account for 10% of the global burden of disease and mutry in people aged 10-193cm
- Hair of all mental health conditions start by 14 years of age but most cases are undetected and intreated
- Globally depression is one of the leading causes of illness and disability among adolescents.
- Smode is the third leading cause of death in 15-19 year olds.
- The consequences of not addressing adolescent mental health conditions extend to adulthood imparting both physical and mental health and limiting opportunities to lead fulfilling lives as adults.
- Mential health promotion and prevention are key to beiping adolescents thrive.

#### Factors affecting Adolescent Development

Factors that affect adolescent development include physical, cognitive, emotional, social, and behavioral development So it is important to discuss sexual development as well as concern of adolescents regarding physical appearance and heli image while snatting physical development. Cognitive development is associated with Moral development and feature disabilities. Emotional development of adolescents is comprised of the individual's self-identity, emotional intelligence and group differences, such as gender differences and ethnic diversity. Adolescent's Social development can be explained with the view of peer and family relationships, school, work, and community. Whereas adolescent's risk-many ochargo i.e. alcohol and drug abuse, pregnancy and sexually transmitted diseases, school faithere and dropping our delaqueness the propagate feeters that after the state of the propagate feeters with flexibility (13, 14) Some of the prominent factors that affect adolescence development are listed below

- Generation Gap
- Family

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- 5 Ciender discrimination
- 4 Emotional Instability
- 5. Career Consciousness
- o. Treating the adolescents
- 7 Nutrition disorders
- 8 Social media and technology
- 9 Good Literature
- to Socialization
- 11. Schools and other educational institutions
- 12 Aggression and antisocial behavior
- 13. Anxiety and depression
- 14 Peer Influence
- 15 Romantic relationships
- to Identity formation and ensis
- 17 Proper Teaching Methods

What to do for sound adolescent development

For helping adolescents develop soundly we have to work in our-of-school, with community-based, faith-based, education based, interventions along with healthcare, public health, and social service programs, to reach up to large number of adolescents. By expanding social connections and engaging in relationships beyond the faunty adolescents seek greater independence and more autonomy. For which parents, professionals, and other adults who could interact with teens have a unique apportunity to support adolescents for their healthy development—socially, emotionally, and cognitively Today it is a great priority for individuals and communities to make adolescents grow in a healthy manner. So there are some steps that need to be taken for their healthy development such as,

- 1 Try to understand adolescents and know what to expect: Adolescent period is very important in terms of developmental milestones as adolescents invigate on the path to adulthood. Learning the development of adolescents physical as well as brain development can help us understand their behavioral patterns. It also enables us to fielp teens for making better decisions.
- 2 Encouraging adolescents for physical activity: If we want adolescents to exercise then we have to do it with them because then they are more likely to keep exercising on their own. It also helps us to know about their friends and current events going on in their life.
- 3 Help adolescents to be engaged in their educational activities: Education plays a important role in the healthy development of adolescents. We have to take care that school environment is supportive and equal for every student regardless of race, ethnicity, gender, disability, sexual ability or sexual orientation.
- 4 Adolescents should be encouraged to pursue their interests: Developing the hobbies is good for physical and mental health. So we have to help adolescents in identifying the opportunities for cultivating their talents and interests by joining clubs, playing outdoor games, singing, skill learning, volunteering in social activities, or working for a part-time job.
- 5 Creating opportunities to learn and grow: Adolescence is a risk taking and decision making period. Positive experiences will help adolescents in making decisions in a safe and supportive environment and promote learning and build resilience.
- 6 Family meals play a very important role: Sharing a meal with family should be a common activity, as eating takes place in a social context it is important to understand how, and why, who we dire with affects what we eat. The family environment plays an important role in arising various feelings like belongingness, security, expressiveness and positive adjustment.
- 7 We should talk and listen to adolescents: Share a quality time with adolescents and hear about their activities; show the genuine interest and listen carefully. We should speak with them without any comparison. We think our child is not listening but they do: if we talk with them in a manner they can get it.
- 8. Work together and let them lead; Working together and giving them chance to lead the situation is associated with increase in overall satisfaction, happiness, self-confidence and self-esteem, and with improved health and well-being.
- 9. Keep watch and take care: Adolescence is associated with independent thinking and behavior they will commously try for getting away from their parents. But at same time they tack the experiences regarding many situations so they still need a watch out for them. So we have to keep watch for changes in behavior that could harm their development.
- 10. Try to enjoy their company: Though there are many challenges in developing adolescents, there are lots of positive sides also. Adolescents are very energetic, fun-loving high-spirited, and passionate. Appreciate their individual strengths and try to spend time together doing something they enjoy and that will naive us surprised at the benefits for our relationship.
- 11. Be an "open/approachable" parent: Understand our children's feelings, even if we don't always approve of their behavior. We should try not to make judgments and keep the door open on any subject.

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12. Avoid hamiliating your child: Avoid hamiliating our children and limiting at what may seem to make be seen or foolish questions and statements.

13. Appreciate the adolescent: Make an effort to commend our children frequently and appropriately. Too offer,

take the good thougs for granted and focus on the bad, but everyone in family decision-making and the Respect the adulthood of our child: Encourage the child to participate in family decision-making and the Respect the adulthood of our child: Encourage the child is going through transition and could be a second of the child in the control of the child is going through transition and could be a second or child in the c Respect the adulthood of our child: Encourage the child to participate through mustion and could be out family concerns together with us. Understand that our child is going through mustion and could be out family concerns together with us. Understand that our child is going through mustion and could be out family concerns together with us. our family concerns together with us. Understand that our came is got from us that's essential for their our opinions and our ways of doing things to achieve the separation from us that's essential for their or their contents.

### Conclusion

Adolescence is specified with rapid transitions, no two adolescents are similar. Developing body need to Adolescence is specified with rapid transitions, no two adolescents are similar. Developing body need to be adolescence and media and seed to be adolescence and media and seed to be adolescence as specified with rapid transitions. Adolescence is specified with rapid transitions, no two autoccurs counselors, and madin and concern of parties like parents, teachers, health professionals, religious counselors and go on adjustments. concern of puries like parents teachers health professionate teachers self-identity and go on adjusting organizations. With the developing age adolescents continue to develop self-identity and go on adjusting was organizations. With the developing age adolescents continue to develop self-identity and go on adjusting was organizations. With the developing age adolescents continue to sussessing could be stressful and full of superiories of changing biological and social conditions. These experiences could be stressful and full of superiories. experiences of changing biological and social conditions. These experiences things more difficult for adolescents can have a low tolerance for these changes. This makes things more difficult for adolescents can have a low tolerance for these changes. This makes things more difficult for adolescents. provoking. So adolescents can have a low tolerance for these changes.

So adolescents can have a low tolerance for these changes. With the growing age adolescent adjust their behaviors which come out suddenly because of mappropriate mood swings. With the growing age adolescent. adjust their behaviors which come out suddenly because of mappropriate. Kind, pattern, empathence sympathetic symp develop their relationships with selves and others. They became more going overwhelmed with the authority Englishment respect to elders, they develop sense of responsibility and not going overwhelmed with the authority Englishment respect to elders, they develop sense of responsibility and not going overwhelmed with the authority Englishment respect to elders. sharing, respect to elders, they develop sense of responsioning and the mack of life. With the developing they adolese need to deal constructively with the stress situations in their everyday lives. Gaining positive attitude towards the many deed to deal constructively with the stress situation faced by them. Through this paper we tried to examine the entire depends on understanding the actual stress situation faced by them. Through this paper we tried to examine the entire depends on understanding the actual stress situation faced by them. strategies of adotescents with different developmental issues, as this could provide a foundation for preventive manner. services for helping adolescents to change their attitude towards developmental issues

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### Study of Feminism and Media in India

Dr. Donglikar Chetana Vishwanathrao

#### Abstract:

In India the percentage of women is near about half of the population i.e 48.03 % in 2019. Women's are the main asset of India; they have contributed in near about all sectors of Indian development and made the country proud. They have put up many milestones and have been always an inspiration for all generations. Besides this there is another reality of feminism in India as it is influenced by systematic biological, social, political and economical discrimination and is always neglected. These discriminations are prominent in terms of mutrition, health, education, property rights, labor and marriage and domestic violence. Lack of social security for women is a major issue of Indian society that restricts the women freedom. It is said that literature or media is the mirror of society it reflects the facts and incidents of society. Media is a powerful medium for influencing masses and communities and the new IT technology has increased its importance. But unfortunately today media is trembling in its role and getting blased and this affects the social development and makes it more rigorous for women. Previously Indian media was given lowest priority but now a day's media and especially social media has become the priority of Indians. So it is necessary that Indian media should be refined to gender issues and focus on role empowerment of women in media and Indian society. In this current scenario, through this paper effort will be made to discuss about the role of media in empowering women image and role in India's development.

#### Introduction:

Media is the most important and effective tool of society in the modern era as it is empowered to reach out to a large audience by mass communication for creating an impact on all sectors of society making it far and wide. Social media is getting updated and social networking is becoming an inevitable source of influence on mass media. Social media has become a source of support for women liberation by focusing on their various problems and making them able to express their views openly against the problem. Through mass media women can communicate effectively thus it is playing an important role. Women are getting involved more in number than men in this business thus it has also helped in flourishing of media. (1)

Media can be a powerful tool of change as well as of persecution both at the same time. No doubt media is a prominent source of advocating gender equality but at the same time it also strengthens the conventional image of women in the society and media. Women contribution towards society has always been neglected besides their hard work and dedication. (2) Electronic and print media crucially present the picture of women's variant lives and their contributions to society. Media should act responsibly before reporting and publishing any news as it has huge influence on people. (3) Disrespectful portrayal of women in media shows the lack of gender sensitivity. Because of such instances the National Commission for Women has to recommend amendment in the Indecent Representation of Women (Prohibition Act), 1986.

Promoting a non-convictional image of women in the mass media is very important for avoiding the ill effects of Media. Women's should be made knowledgeable about media because women are still having limited knowledge regarding modern information technology in most societies. Through increasing participation and access of women for self-expression and decision-

making through the media a new era of communication is ready for empowering women. So the powerful role of the media in the empowerment of women and gender equality should be supported and explored. (4) This will also help government for implementing various programs related to

### What are the Different forms of Social Media?

Social media is gaining the popularity and power for businesses and marketers because they can use it to target and convert the audiences. More people are only aware of Facebook Twitter, Snapchat, and Instagram as social channels but besides this there are many other platforms which could be used for business as well as for social awareness. (5, 6) Social media is helpful in building up loyalty of current customers to the point that they will be willingly and freely, spread the content worldwide,

### Social Networks: Facebook, Twitter, Linkedin:

They are used for associating with individuals (and brands) on the web. They telp individuals business via branding, social awareness, relationship building, customer service, lead generation, and conversion.

### Media Sharing Networks: Instagram, Snapchat, YouTube:

These Social Media platforms are used to find and share photographs, live video, video and other kinds of media on the web.

### Discussion Forums: Reddit, Quora, Digg:

These Social Media platforms are used for finding, sharing and discussing different kinds of information, opinions, and news. These discussion forums have an enormous user and make sure that it would extraordinally heighten your business. Through this platform different queries of any domain are arowered easily.

### Bookmarking & Content Creation Networks:

Pinterest, l'lipboard these Social Media platforms will be helpful in finding out, sharing, discussing and saving a variety of latest content and media that are trending.

### Blogging & Publishing Networks: Word Press, Tumblr, Medium

These types of Social Media networks are choosed for publishing, discovering and commenting on articles, social media blogs and other content on the web. This type of content marketing is one of the most powerful ways to target, attract, engage and convert a target audience.

By one of the survey report in India it is evident that number of male users of internet a more than that of women. As per the report, 'Internet in India 2017' by the Internet And Mobile Association of India (IAMAI), "the total number of internet users in the country are increased but still only 30 percent of the female are users." This shows the significant huge digital gender gap. Today India is getting digitalized and this huge digital gender gap is presenting a question mark regarding digital literacy of females. The digital gender ratio in urban area is more than rural for internet usage. (8) These reports are sufficient to show the sensible status of women literacy in India in this digital era.

### Impact of Social Media on Women Issues in India:

Because of Social media, communication have transformed extensively at local and global level in the past few decades. In past few decades in India use of Social media has increased excessively. For women Social media is a new platform, tool or weapon to discuss, raise and communicate their voice or opinion and organize online campaign and activism. Social media s also a powerful medium for seeking a wider attention from a global community for attending different issues related to women's right and motivate and encourage the government or policy for motivating gender equality. Using Social media tools and applications such as blog, viog, facebook, twitter, instagram etc women are being empowered by education, entertainment, self-decision making, technologically updated and financial empowerment (9) Few are the examples of Social media campaign that has belped in seeking attention of society on national and international level;

### Me too Campaign and Social media

In India women's role varies as per the region, class, caste and religion. Upper and middle class women have opportunities for education as well as profession. But the lower class women have very different roles. Hard work is the unenviable part of their life they have very little freedom for moving around. Violence is worst experience their life.(10) In India sexual harassment of women is a major matter of concern. In 2018 exposing India's sexual harassment problems were highlighted by #Me Too campaign and for the first time the power of social media in mobilizing people and generating social change was visualized by the society. The #Me Too campaign was primarily a social media campaign because Social media gave women the platform for the raising and coming together, in support of women and encouragement them to fight. (11) Because of this campaign women started talking about what has happened with them or who did it. (12) But very few women has accesses to social media, still women are now getting confident and realizing that it is not their fault and they should talk about it, rather hide it. This is a long-term and large impact of social media campaign.

### 1 Will Go Out campaign

In Bengaluru in in 2017 a group of young women initiated a campaign called #IWillGoOut campaign and showed how a hashtag can be un fold into a national movement. The role of social media in translating online support to offline action is very important. The #IWillGoOut campaign was activated by two politicians because thy commented on these young women by blaming for the sexual assaults. As a result the young women sent a Facebook message to her 10 friends and asked them to join her in a petition to demand public apology and draw attention to sexual assault in India. This campaign gained a strong surveillance within few days and reached up to many people. A page was created on Facebook and website, which gained the attention and support from people across India. This online activity reached to it climax in offline action when on 21 January 2017 over 30 events and marches were held across India in support of these young women. In this campaign Facebook was the main stimulant as it brought together a young community of suffered women and motivated others in different cities to coordinate and organize marches: (13,14)

### Pad Man Challenge and Social Media:

Social entrepreneur Arunachalam Muruganantham initiated 'pad man challenge', he had invented a low-cost sanitary pad-making machine, which had created a rumor on social media. Muruganantham's work got recognaised when the movie padman got nomination and recognition when the lead cast of the movie, Akshay Kumar, Sonam Kapoor and Radhika Apte posted their picture holding a sanitary pad, along with the message, "sPadmanChallenge".(15) Social media played aresponcible role in this, as within few days stars like Aamir Khan, Deepika Padukong, Anil Kapoor and Katrina Kaif joined this campaign and posted their photos on media and conveyed the importance of menstrual hygiene of women. After that not just celebrities, but their fans had also joined the viral campaign and

posted their photos on social media. In India even today talking openly about sex education or any matter related to it is a great taboo. Even in medical stores if any woman goes to buy sanitary napkins they pack it in paper and give it in a black carry bag as it is thing which must not be exposed or seen by anyone. But this campaign has helped on a large extent to normalize this situation in society.(16)

### Selfie With Daughter Campaign

In 2011 The countries census has reveled a shocking information regarding Gender gap in India. There were missing females in India. The percentage of girls per 1000 females was very low. In tstes like Maharashtra, Rajasthan, Madhya pradesh and Haryana, were at alarming positions. In India the ratio was only 834 girls for every 1000 boys. After this heart throbbing incidence, the problem of sex-selective abortion had been discussed intensely in India and beyond. During this period from a rural village of Hariyana, the Mayor of Bibipur Mr. Sunil Juaglan initiated a campaign, "Selfie with Daughter" as a local contest. The picture was awarded and because of this initiative parents started praising their girl child and felt proud. This initiative motivated parents to welcome the birth of girls. Within ten days 800 selfies were collected through social media under 'Selfiwithdaughter hashtag. This campaign was very much appreciated by Prime Minister, Narendra Modi. In 2017 a new smart phone app was generated for uploading the selfies and the website has registered more than 100000 pictures. This campaign is almost related with the national policy of government. 'Bett Bachao Bett Padhao'.(17, 18)

### Beti Bachao Beti Padhao Campaign

Even in 2014 India was fighting against decreasing female sex ratio in India. At this time our Prime Minister Narendra Modi put forward a great initiative over his twitter handle. This movement was taken on a multi-sector in selected 100 districts with three joint ministries i.e. Ministry of Women and Child Development, the Ministry of Health and Family Welfare and the Ministry of Human Resource Development, for creating awareness against female feticide and to reduce education drop out of girls. There was a major decline in sex ratio of girls. This movement created a change and has come up with positive change regarding female birth and education in society. (19) This campaign has its own official page on facebook.

#### Conclusion:

Women participation in decision-making processes and public life has a created a great impact on policy making. With their increasing political participation gender-responsive public policies are regenerated. So From the evidences it could be positively concluded that Social Media has put forth positive impact before Indian Society and women. Women are having new education and job opportunities they are breaking restrains of heartless traditions and speaking for their right and changes in society. Also it's a fact that digital literacy rate, of women is very low. Today alternative culture is being created by Social media. Portability and affirmation for women in public spaces has become necessary for healthy and modern democracy. For a democratic society a free flow of information is a vital element. Media or press freedom is meaningless unless women have the right to express themselves in the news-gathering and proclamation processes.

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**Equal Opportunities** 

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Women Empowerment

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### Challenges and Opportunities of Rural Women Entrepreneurship in India

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#### Abstract:

Nowadoys Rural entrepreneurs are facing many problems due to non availability of primary amenities in rural areas especially in developing countries like India. Financial problems, Lack of education, insufficient technical and conceptual ability at present it is too difficult for the rural entrepreneurs to establish industries in rural areas. The economic development of our country largely depends on the development of rural areas and also the standard of living in its rural mass. Today entrepreneurs are also driven to achieve success in their business along with the qualities inherited by them of a dreamer, leader, manage r, innovator, continuous learner, and decision maker and most important is to implement all these qualities into the work Undoubtedly it looks attractive fascinating and motivating after listening the stories of the entrepreneurs, but for sure success is not as easy as it looks always. There are certainly some obstacles which we call challenges to overcome by looking forward the prospects to be a successful entrepreneur. In the light of this research paper focuses. on the major challenges and problems available in the Indian market by en-eashing the possibilities and prospects of the same to be an able and successful entrepreneur

Problems. Keywords: Rural entrepreneurs, Innovator, economic development, Empowerment, opportunities, Challenges, Self-Fulfillment

### Introduction:

Women owned businesses are highly increasing in the economies of almost all countries. The hidden entrepreneurial potentials of women have gradually been changing with the growing sensitivity to the role and economic status in the society. Skill, knowledge and adaptability in business are the main reasons for women to emerge into business ventures. Women Entrepreneur is a person who accepts challenging role to meet her personal needs and become economically independent.

Rural entrepreneurship is defined as "entrepreneurship emerging at village level which can take place in a variety of fields of Endeavour such as industry, business, agriculture and not as a potent factor for overall economic development." An entrepreneur is a person who either creates new combination of production factors such as new products; new methods of production, new markets, finds new sources of supply and new products and new organizational forms or as a person who is necessarily willing to take risks or a person who by exploiting market opportunities, eliminates disequilibrium between aggregate demand and aggregate supply or as one who owns and operates a business.

In simple terms "entrepreneurship" is the act of being an entrepreneur, which can be defined as "one who undertakes innovations, finance and business acumen in an effort to transform innovations into economic goods".

### Principles of Rural Entrepreneurship

Some of the basic principles of entrepreneur which can be applied to rural development are

- Optimum and full utilization of local resources in an entrepreneurial venture by rural population -Better distributions of the farm produce results in rural prosperity
- Entrepreneurial occupation opportunities for rural population to reduce discrimination and also providing alternative occupations as against the rural migration
- To activate such system as to provide basic "6M"- Manpower, money, materials, management,

machinery and market to rural population. (i)

### Some of the major opportunities in rural entrepreneurship are:

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- Mineral water
- Sericulture
- Floriculture
- · Herbal & health care
- · Food, fruits & vegetable
- Textile and clothing
- · Eco-friendly technology
- Bio-technology
- IT enabled enterprises
- Event Management
- Tourism industry
- Telecommunication
- Plastic material

#### Factors Motivating Rural Women to involve in Business Activities:

Women start businesses for fundamentally different reasons than their male counterparts Many researchers drew inferences on factors influencing the women to become entrepreneurs. The gist of all the researchers accord that the following are the major reasons for women entrepreneurship.

- Need for Power.
- · Getting self actualization
- Seeking Independence
- Need for achievement
- Presence of knowledge and skills
- To become a leader
- Economic compulsion
- Inspiration from others success
- Frustration in the present job
- Motivation towards new enterprise
- To get control over the business
- Not finding a right/suitable job
- Need for additional income
- Thrust to create new things

### Problems of Indian Women Entrepreneur:

There are a number of problems faced by women entrepreneurs in India. The problems (a) be categorized into, Personal problems such as Dual commitment, lack of support from members, lack of self-confidence, education, psychological problems etc. Social problems Male dominated society, different social attitude, lack of Government support, etc. Business related problems such as scarcity of finances. problems such as scarcity of finance, paucity of raw materials, marketing problems exploitation at middlemen etc. (2)

### The major problems faced by the women entrepreneurs are as follows.

Being Women:

The first and foremost problem for a Women Entrepreneur is being a woman. The male dominated society builds blocks for women's success in business

2 Lack of Confident:

Lack of self-confidence, will power, strong mental outlook and optimistic attitude amongst women creates a fear from committing mistakes while doing their piece of work

3. Paucity of Funds/ Difficulty in Obtaining Finance:

Unlike big public firms, tiny firms cannot have access to primary and secondary markets. Women in developing country have little access to funds, due to the fact that they are concentrated in poor rural communities with few opportunities to borrow money.

4. High Production Cost:

High production cost of some business operations adversely affects the development of Women entrepreneurs. The installation of new machineries during expansion of the productive capacity and like similar factors dissuades the women entrepreneurs from venturing into new areas

5. Male Female Competition

Though the women entrepreneurs considered good in keeping their service prompt and delivery in time, due to lack of organizational skills compared to male entrepreneurs" women have to face constraints from competition

6. Legal Formalities:

This kind of problem is faced by the entrepreneurs who enter into business without any preparation. So, they face some legal formalities such as the trademarks, copyrights and intellectual property problems.

7. Women's Family Obligation:

Having primary responsibility for children, home and older dependent family members, few women can devote all their time and energies to their business. The financial institutions discourage women entrepreneurs on the belief that they can at any time leave their business and become housewives again.

8. Women's Emphasis to Family Ties and Relationship:

The business success depends on the support, the family members extended to women in the business process and management. Absence of proper support, cooperation and backup for women by their own family members force them to drop the idea of excelling in the field of entrepreneurship

9. Risk Bearing Capacity:

Any kind of business is considered as continuous risk taking and strategic decision all the time. Investing money, maintaining the operations and ploughing back money for surplus generation requires high risk taking attitude, courage and confidence.

10. Isolated from Business Networks:

Today, the business is transforming in different aspect, and maintaining the networks is playing a vital role in the success of business. Apart from formal networks, the informal networks maintenance demonstrates the success of business. It is necessary to attend the informal meeting s, but the women entrepreneurs are considered as isolated from these kinds of business networks, which dwindle the margin of women entrepreneurs

11. Negative Self-Perception:

Women entrepreneurs will take a pioneering step in business to face the situations. But because of not having proper support and positive attitude, majority of women are dropping their ideas before the actual result.

### Offering training facilities:

Training is essential for the overall development of entrepreneurships. It also enables the rural entrepreneurs to undertake the venture successfully as it certainly imparts required skills to run the enterprise.

### 4. Power supply of raw materials:

Rural entrepreneurs should be surely ensured of proper supply of scare raw materials on a priority basis. Subsidy may also be offered at times to make the products manufactured by rural entrepreneurs reasonable and cost competitive.

### 5. Setting up marketing co-operatives:

proper assistance and encouragement should be provided to rural entrepreneurs for setting up marketing co-operatives. These co-operatives shall help in getting various inputs at reasonable rate and they are helpful in selling their products at remuneration prices

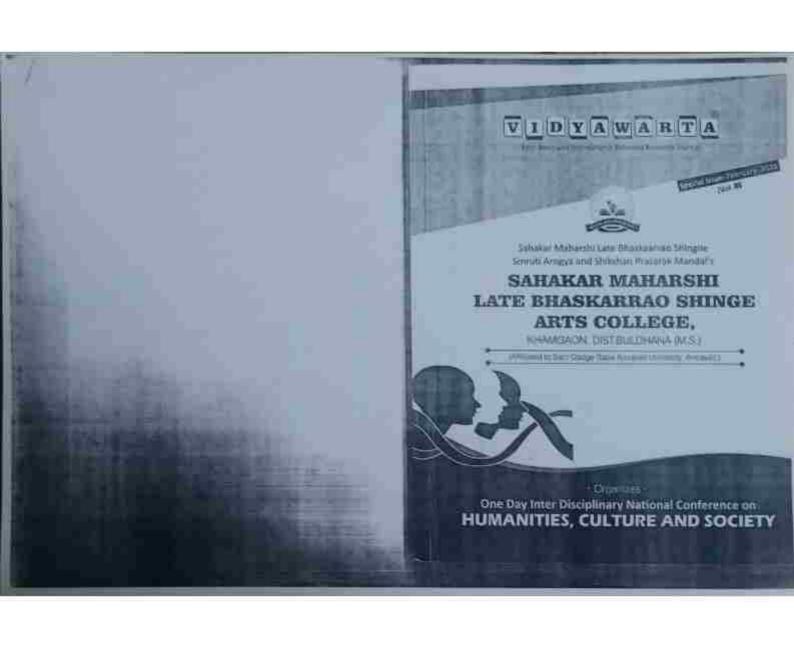
### Conclusion:

Entrepreneurship among women, no doubt improves the wealth of the nation in general and of the family in particular. Women today are more willing to start their own business or to take over family owned business. The contribution of rural women to the economy is quite significant. Women entrepreneurs not only give employment to greater number of people, they also enhance the economy to grow faster than before, this results the women entrepreneurs to take challenging career and improve the nation as a whole.

But still, the problems and difficulties faced by rural women entrepreneurs are unnoticed. Lack of mobility and capital investment was the major problem of rural entrepreneurs. Besides this, women entrepreneurs face several obstacles. This is due to deeply rooted discriminatory socio-cultural values and traditions, embedded particularly in the policy and legal environment and in institutional support mechanisms. In many instances women are unable to benefit from services and struggle to overcome or circumvent discriminations in business circles. So, it is the responsibility of the country to make certain policies to help the rural women to develop entrepreneur skills and surface the problems to become flourishing entrepreneurs.

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### लट्टपणा आणि स्त्रीचे आरोग्य

प्रा. सय्यद अफरोज अहमद (गृहशास्त्र विभाग) कालिकादेवी कला वाणिज्य व विज्ञान महाविद्यालय, शिरुर (का.) जिल्हा बीड

प्रस्तावनाः

आरोग्यम् धनसंपदाः' यादाबनीत आणसीन वेगळे काही सांगायती गरण नाही. आरोग्य चांगले असेल तर जीवनाच्या कोणत्याही क्षेत्रात प्रगती करना ग्रेणे सहज शक्य होते. चांगल्या आरोग्यासाठी आहार, व्यायाम आणि विभाती ही त्रिमृती आवश्यक असते. आरोग्य आणि आहार यांचा इतका जवळचा संबंध आहे. की त्यामुळेच आपण क्रमे थाती नमंच दिसती.' असे म्हणतात. अनीकडच्या काळात मात्र धावपळीने व्यापलेली व्यस्त जीवन शैली आहार विहाराच्या पाधात्य संकल्पना आणि गांपिक प्रगती साधण्याकहे असलेला नवींचा कल, यामुळे संगुलित आणि पोपक आहाराकहे दुर्नक होताना दिसत आहे. दुसरीकते बदललेल्या जीवनशैलीमुळे जेवण खाण्याच्या वळाही बदलल्या आहेत . शिवाय भूक लाग्यावर मिळेल हे खाणे, या प्रवत्ती मुळे संगुलित आहार मिळविण्याकडे कोणी लक्ष देव नाही.

प्रास्ट पृष्ट, पिडला, बर्मर आणि कोल्ड्रिक्स यामारख्या पदार्थाणी सेवन करण्याची नवी संस्कृती निर्माण झाल्यामुळे लोक अनेव सच्या आजारांना बळी पहतांना दिसत आहेत. हायबिटीज, किहनीचे विकार, ह्याविकार, पंचनसम्थेचे विकार, यासारख्या आजारांवर उपचार करण्यासाठी हजारो-लाखी रुपये खर्च करणार लोक मुळात अशा प्रकारचे विकार उत्पन्न होंड नवेत, यासाठी आपल्या आहारांकडे मात्र काळजीने लक्ष पुरवीत नाहीत. आजार उद्भवल्या वर औष्ट्राचे सेवन करण्याणवजी,आजार होंड नवे म्हणून आहारांच्या माध्यमातून आरोग्य अपने हा प्रमुख उद्देश लक्षात घंणे सम्बन्ध आहे. स्थानिवाय कार्यक्षमता, बुद्धिमत्ता, स्मरणवन्ती यांच्या विकासागाठी कथा प्रकारचा आहार हवा, याचे झान अन्त्रे महत्त्वार्थ आहे.

शरीर आणि मेंद्रच्या विकासासाठी कीणते घटक आवश्यक असतात आणि ते साहारावन योग्य प्रमाणात करें।
भिळवता येतील, याकटे प्रत्येकाचा कल असावा, जमान एकीकडे कित्येक लीकोंना धायला पीटमर अन्न मिळत
नाही, तर दुसरीकडे जास्त खाऊन चरबी चाढलेले माणसे आवळतात. अनेय सहितेत असे म्हटले आहे की जगात आठ
प्रकारची माणसे असतात. जिते केमाळ य मुळीच केम नसलेले, अति उच अति बृटकी,शूप काळी,शूप गोरी, अतिकृत
आणि अतिस्थृत, यापैकी लेबटच्या दोन प्रकारच्या व्यक्तिचे आरोग्य क्यीच वांगले राहत नाही आणि विशेषता. अति
स्थूल व्यक्तीचे तर मुळीच नाही.

### स्वृत्तपणा (Obesity) व्याख्या

"मरीमत घेतत्या आणाऱ्या अवेषेक्षा वापरती आणारी कर्जा कमी असल्यास जास्तीची कर्जा परवीच्या रूपात साठते आणि लट्टपणा वेती.

"स्थूलपणा म्हणजे शरीरात साजवीपेका जास्त चरसी माचणे व त्यामुळे वजन अपेक्षित वजनागेला जान्त होणे होय."

जामतिक जारोग्य संघटनेने केलेल्या सट्टपणाच्या व्यास्केत 'जारोग्यातर दुष्परिणाम होईल एनव्या प्रमाणान अँडीपोज पेतीमध्ये मेद(सिम्ध/Fat) साटणे म्हणजे स्वृतपणा होम.'over weight म्हणजे 'ज्यादा जजन' borse ओबेस म्हणजे पाजील तट्ट किंवा स्थूल जातिरिक्त मेदवृद्धीचाल इंग्नजी भाषेत (obese) जाणि आदेतिटी (obesity)

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असे म्हटले जाते. व्यक्तीच्या वय लिंग आणि उंचीनुसार प्रमाणित वजनाच्या दहा ते वीस टक्के वजन ज्ञास्त अमल्याम ती व्यक्ती (ओव्हर वेट ) संबोधली जाते.

आरोग्यावर विपरीत परिणाम करणाऱ्या अनेक चयापचय क्रिया संबंधित (मेंटट्रॉलीक)आणि यांत्रिक (Mechanical) उपद्रव/त्रास स्थूलपणामुळे होऊ शकतात. म्हणूनच स्थूलपणा हा एक विकार आहे असे निश्चितपणे म्हणता येईल.

शरीरवस्तुमान निर्देशांक B.M.I ( BODY MASS INDEX ) चा वापर

मोजलेले वजन (कि. ग्रॅम )

B.M.I = -ऊंची२ / मीटर

सामान्यपणे पुरुषाचा B.M.I. 20 ते 25 असणे योग्य मानले जाते. तर स्त्रियांचा B.M.I 19 ते 24 च्या इरम्यान असणे योग्य समजले जाते या पद्धतीत शरीरयष्टी या संकल्पनेचा समावेश होतो ही पद्धत जास्त संवेदनशील आहे .

"शरीरातील चरबीचे प्रमाण जाणून घेण्यासाठी एका विशिष्ट प्रकारच्या चीमट्या चा उपयोग केला जातो. लठ्ठपणा जाणून घेण्याची पद्धतः

 Harpenden calipers - बगलेच्या खालील भाग, छातीचा भाग, पोट,जांघ,दंडाच्या मागचा भाग, पाठीच्या फऱ्याखालील भाग, कंबर,नितंब या शरीराच्या भागांपैकी कोणताही एक भाग चिमट्याने दावृन पाहिला

असता ही जाडी एक इंचापेक्षा जास्त असेल तर तुमचे शरीर स्थूल आहे असे समजावे.

२) माणूस उघड्या अंगाने आरशासमोर उभा राहिला असता छाती पेक्षा पोटजास्त मोठे दिसले तर तो लठ्ठ समजावा. साधारण: पुरुषाची हनुवटी, गळा, पोट व कमरेवर चरवीचे घर असतात व ख्रियांच्या बावतीत छाती, पोट, कंबर, नितंब यावर चरवी साठते किंवा पोटाला घडी म्हणजेच वळकटी पडत असेल, चालतांना मांड्या एकमेकींना घासल्या जात असतील तर त्या व्यक्ती लठ्ठ समजाव्यात.

आपले वजन आपल्या उंचीला योग्य आहे की नाही ते ठरविण्याची सोपी पद्धत पुढीलप्रमाणे आहे

पुरुषांसाठी : उंची (इंचा मध्ये) × १= बजन -म्हणजे तुमची उंची ५ फूट ६ इंच असेल( म्हणजे ६६ इंच )तर × १ करून तुमचे वजन ६६ किलो असायला हवे. स्त्रियांसाठी : उंची (इंचामध्ये) × .८ = वजन- म्हणजेच तुमची उंची ५ फूट २ इंच असेल, म्हणजे ६२ इंच असेल तर गुणिल .८ म्हणून तुमचे वजन ४९.६ लठ्ठपणाची /मेदोवृद्धीची कारणे:

 आनुवंशिकता, चयापचायच्या क्रियेत अनियमितता, लिंग सामाजिक आणि आर्थिक घटक, भावनिक घटक,यंत्राधीन जीवन पद्धती जास्त कॅलरीज युक्त आहाराचे सेवन करणे.

दिवसा झोप घेणे, व कफकारक पदार्थ सेवन करणे यामुळे शरीरातील मेद म्हणजेच चरवी वाढते.

व्यायामाचा व शारीरिक श्रमाचा अभाव जंगफुड फास्टफुड तसेच मैद्याचे व जास्त गोड पदार्थ आहारात

नेहमी सेवन करणे. विश्रांती

 तेलकट व तळलेल्या पदार्थांचा अतिप्रमाणात सेवन करणे अतिशय जलद गतीने जेवण करणे तसेच अति दारू पिणे धूम्रपान ताण तणाव अतिविधांती हॉटेल मधील खाणे इत्यादी .थोडक्यात मनुष्य घेत असलेल्या आहार करत असलेली कामे व्यायाम यावर वजनातील वाड किंवा कमी होणे अवलंबून असते.

लठ्ठपणाचे /मेदोवृद्धीचे परिणाम

शुद्ध रक्तवाहिन्यांचा ऱ्हास होतो. स्थूलपणामुळे उच्च रक्तदाबाची तकार निर्माण होते. हृदयावर ताण हृदय रोहिण्याचा ऱ्हास,हृदयाची कार्यक्षमता विघडते, सांसर्गिक आजार झाल्यास लवकर वरा होत नाही. मेंदूच्या शुद्ध रक्तवाहिन्यांच्या :हासामुळे मेंदूच्या रक्तपुरवठ्यात अडथळा निर्माण होऊन अर्धांगवायू सारखे परिणाम दिसून

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येतात. श्वसनाच्या स्नायूंचे कार्य परिणामीत होते. धाप लागते. मधुमेहाच्या पार्श्वभूमी असणाऱ्यात मधुमेह उद्भवतो. रक्तातील एकूण कोलेस्ट्रॉल LDL कोलेस्ट्रॉल आणि ट्रायग्लिसेराईड्सची पातळी वाढते, तर HDL कोलेस्ट्रॉल ची पातळी कमी होऊन रोहिणी काठिण्याला पूरक अशा लायपोप्रोटिनच्या पातळीत वाढ होते.

रक्तातील यूरिक आम्लाच्या पातळीत वाढ होऊन सांध्यांचा गाऊट हा विकार होतो. स्थूल शरीराचा भाग सातत्याने पेलावा लागल्यामुळे संबंधित सांध्यांची उदा. कमरेचे हाड, मणके गुडघे क्षमता कमी होऊन त्यामुळे कंवर, गुडघ्यांची सांधेदुखी निर्माण होते. लठ्ठपणामुळे हालचाली मर्यादित होतात त्यामुळे बद्धकोष्टते सारखे विकार उद्भवतात. पायाच्या अशुद्ध रक्तवाहिन्यांची अवनती होऊन पायाच्या मागच्या वाजूच्या शिरा दोरखंडा सारख्या टचटचीत व वेड्यावाकड्या स्वरूपात दिसतात. यालाच Varicose veins म्हणतात.

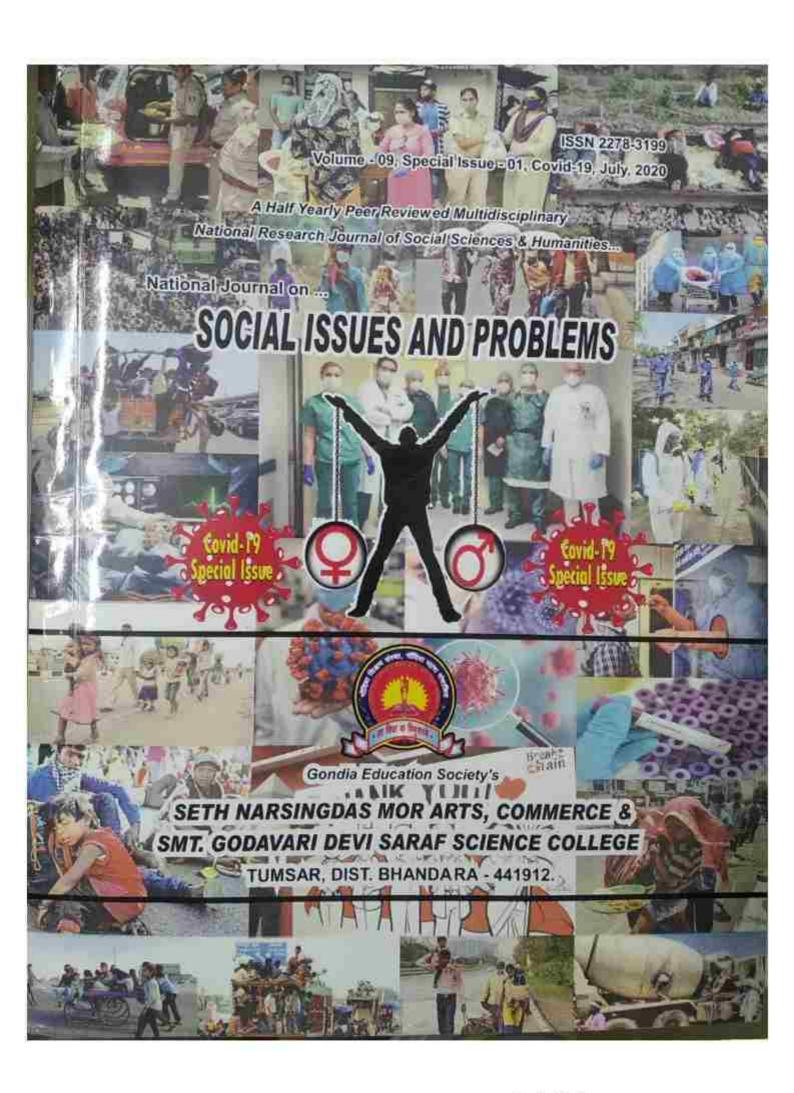
स्थूलपणातील टाळण्यासाठी उपाय योजणाः

आहारात विविधता आणण्याचा प्रयत्न करावा. एकाच वेळी पोटभर खाऊ नये दिवसभराचा आहार चार ते पाच टप्प्यात विभागावा, साखर अधिक मीठ तेलकट पदार्थ सॉफ्टड्रिंक, आईस्क्रीम, अल्कोहोल, वेकरीचे पदार्थ, शिळे अन्नपदार्थ टाळावेत. नॉनव्हेज खाणाऱ्यांसाठी आठवड्यातून एकदा चालेल पण शक्यतोवर फिश डिस्किन केलेले चिकन असेच पदार्थ खावेत. साय विरहीत दूध घ्यावे. भरपूर भाज्या फळे खावीत ,संतुलित आहार जीवनपद्धती व्हावी, पदार्थ उकडून किंवा भाजून खावे तळून नको पाणी भरपूर प्यावे शक्यतोवर कोमट पाणी प्यावे. सकाळी भरपूर न्याहारी, लाईट लंच लाईट डिनर असा दिनक्रम हवा. आणि स्थिरपणे वजनात घट होणे उत्तम,आहारात विविधता आणण्याचा प्रयत्न करावा,एकाच वेळी पोटभर खाऊ नये. दिवसभराचा आहार चार ते पाच टप्प्यात विभागावा. उपवासाचे पदार्थ खाऊन उपवास करणे टाळावे परंतु संपूर्ण रसाहार करून आठवड्यात एक उपवास करावा.खाण्यातील कॅलरी पेक्षा व्यायामाने जळणाऱ्या कॅलरीज कडे लक्ष द्यावे.

आग्रह करणे आणि करून घेणे टाळावे, उरलेसुरले अन्न पोटात ढकलून नये, व्यायामासाठी वेळ राख्न ठेवा व्यायामापूर्वी एक तास आणि व्यायामानंतर एक तास काहीही खाऊ नये आयुष्यात सुखी समाधानी व्हायचे असल्यास आहार व्यायाम विद्यांती या त्रिसूत्रीचा अवलंब करा उपचारात्मक रूप न देता जीवन धर्म समजावा त्याची उपासना व्हावी.

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### VILLAGES STUDY REPORT REGARDING COVID-19 OF SHIRUR (KA) TALUKA OF BEED DISRTICT IN MHARASHTRA

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Abstract: This study was conducted in a scientific manner following the objectives of the University Grants Commission's reference letter (No D.O.NOF. 1–1/20209 (Secs)) Dated 12 June 2020) to the villagers of five villagers namely Rakshasahlawan. Padli, Warni Kolwodi and Dahawandi in Shirur Kasar taluka of Reed district to Maharashtra. Google forms have relied on this technique we collect data in this regard. This study is compiling basic facts. Although the study was conducted by the Department of Sociology our college, the associological approach is evident in the study. The views of fifty villagers from the above five villages have been incorporated in this study. The study lacked time while doing this, so there were limitations to study from different perspectives.

Key words Health Community, Awareness Prevention

Introduction: Corona is a name of a group of viruses India is already known to this virus. SARS discovered in 2003, and MERS discovered in 2012, are also diseases caused by the corona virus. But the corona virus that was found in the outbreak of the disease in December 2019 in Wuhan, China, Is different from the previous one, so it is called the novel Corona virus. The World Health Organization. has named the disease Covid-19 Covid-19 is the name given by the World Health Organization (WHO) on February 11, 2020 for the disease caused by the novel Corona virus SARS-CoV-2 It started in Wuhan, China in late 2019 and has since spread worldwide. Covid-19 is an acronym that spands for Corona virus disease of 2019. The virus is also named after its shape which takes the form of a crown with protrosions around it and hence is known as corona virus.

The disease has been reported in many parts of the world. India could not stay away from this disease. The Covid-19 has infected millions and killed scores of people all around the world. There are currently five lakh forty eight thousand three hundred and eighteen patients in India and two lakh ten thousand one hundred and oventy patients are currently undergoing treatment in the hospitals. Three lakh twenty one thousand seven hundred and twenty three patients have recovered and gone home. The total number of deaths in India due to corona virus is sixteen thousand four hundred and seventy five. In-Maharashtra, seventy three thousand two hindred and ninety eight patients are active patients and a total of eighty eight thousand nine hundred and aixty patients have recovered and returned home. Till date one hundred and fifty six patients have died in Maharashtra due to corona virus. In the Beed district of Maharashtra where we have studied five villages. in Shirur Kasar Taluka, a total of one bundred and seventy seven patients have been affected with corona virus and eighty six patients have recovered from it Currently thirty seven patients are undergoing treatment in Civil Hospital, Beed. Three patients have died of the disease. While the disease seas campant in Maharashira, only two patients were found in Shirar Kasar Taluka till today. Now they are recovered and have been sent home after recovering

from the disease. The patient was from Mumbar After this, however, no corona infected patient has been found or reported in Shinar Kasar Talaka till date and no death has been reported so far We are studying the villages in such talakas. Covid-19 has been shown to have many effects at different levels in the society. We can see the vivid economic, social, environmental consequences in this context. The results have been seen in urban as well as rural areas. What effects did the lockdown caused by Covid-19 have on rural areas? A study has been conducted on the awareness of the rural population about corona virus disease and the problems that have arisen in the rural areas during the lockdown and the measures taken by the rural population.

Study Method: For this study, five villages of Rakahus Bhuvan, Padli, Dahihandi, Kolwadi and Warni in Shirur Kasar Tatuka of Beed district of Maharashtra: were identified and selected. Our intuntion in selecting these villages was that a special camp of our Kalikadevi College's National Service Scheme was held in these villages. Since the analy was conducted during the lockdown period, Google Forms were used for data collection. We reached out to the villagers on social media and the questionnaire was filled out by the people. A total of fifty people participated and filled out the questionnaire online. The purpose of the letter from the University Granta Commission has been kept in mind while preparing this questionnaire.

- To study the awareness of the villagers about Covid-19;
- To study what problems arose in rural areas during the Covid-19 period;
- To study how the rural masses overcume the problems created during the Covid-19 period and what their strategy was while doing this

About this objective, as well as the many conducted by the Department of Sociology, some of these questions were asked from the sociological point of view. This Study is totally dependent on minary data. For data collation we have used Questionnaire, Observation Method techniques.

Sifent Findings: The highlights of this study are as follows:

Our college is focated in a runil & hilly area. Most of the people in this area are many case cutters. This area is also facing the water scarcity problem continuously.

For the study of Covid-19 as per our reference firster D.O.NOF I-1/20000 (Secy) dated 12 June 2020 are have conducted this study. For this study we have chose the five villages which are located in Shirut Kathr and have the population of near about two thousand or so. We have conducted the N.S.S. camps in the same villages from time to time. They were always very co-operative with as and we have worked in close coordination with them.

As oer the samples of survey we observed that there are 98.2% Hindu and 1.8% Muslim community people in this area. There are no clashes among them. Here the population has the average age of 20 to 30 years and is more aware and they gave very good response to this study and to the questions par to them. Among them 80.7% were males and 19.3% females. We got very good response from the under graduates students 70.2% and 14% from P/G. It is one of the great achievements of our college and it has added a new feather in the bastory of our college.

We observed that 87.7% residents were already living in their villages but 12.3% residents were migraints who had migrated from various cities to their village in this period. Many people have migrated from cities to their village in the crisis of corona.

One thing is also noticeable here that the mignant people had followed the rules and regulations which are enforced by the Central Government and controlled by the State Government such as quarantine, isolation, medical checkup, hand wash, use of mask, tocial distancing etc. Villagers were alerted by the government agencies and also due to the effort taken by the Asha activists, Anganwadi Sevika, Sarpanch, Gramsevak the people were made aware of and educated about the apread of cottons viros. The people were also identified if they were intected by the virus and sent to civil hospital for the treatment. Tahasildar and his seam along woth the educated people and students from the town have worked tirelessly and selflessly in the cross of compa virus. They have worked hard in close co-ordination with each other as a team and collectively followed the instructions strictly to restrain the spread of the comma (covid-19) virus. During the survey we observed that near about 96.5% people are wellknown about the symptoms of covid-19 and they also know which organs of the body will be highly affected by the virus. If a rasib or crowd was observed anywhere on the streets immediately the people were matructed to disperse from there and avoid the sprend of the virus.

The people in these villages who have android mobile obtones among them \$4.2% had downloaded the SETU APP which gives the alerts about the covid-19 in their area.

In some villages many people who had migrated to the villages were restricted or prevented from entering in to the villages, but finally they were allowed entry and were kept in quarantine or isolation for fourteen days as per the norms of government. Around 72% of the people have arrived in the voltage with government permission. We also observed that during the lockdown period the people have received regular and sufficient supply of grains from the government as well as the North etc. Also the primary tenchera, social workers and the students from the villages have taken special efforts and worked triclessly, hand-in-hand and in close co-ordination with the administrative authornies. So we observed that 96.5% people are satisfied with the efforts taken by the government agencies and others in the harsh times of corona virus.

The Grampanchyat of every village has cleaned up each and every area of the villages, however, due to some limitations they were able in clean up only. 63.2% of the area of their villages so far. All the villages are kept near, clean, and tidy. Specially, the entry to temples, mosques, market places is strictly bunned.

Due to covid 19 everyone has become alert und conscious in order to improve their immunity and so thany people have given up their bad habits of chewing tobacco, gutka and smoking or consuming liquor etc. The women's self help groups are also engaged in creative and presentive work such as made making, mantizers, making various food items and supplying them to the people in the same villages. The journalists in Shirur Kasar Tahail have also played a very important and crucial role during this period. They have continuously worked to give information which is helpful for the peoples for preventing the sperad of corona vinus. The journation have also helped the administration in reaching our to the needy people. Our college staff has also helped near about two hundred needy people by providing them grains and other needful tieres under the guidance of our Honorable Secretary Ex. Minister of Maharashtra state Shree Jaydon Kahimagarji. The entire college staff and colleagues have also helped the Shorar Tahashil in this hour of need. We were also on thaty on the check posts at the borders of Shirur Kasar Taluka

Conclusion Overall, we observed that the rural people are cooperative, helpful, alert about their immunity, cleanliness, government policies, and facilities etc. Their economic condition is poor, so they are affected adversely. The routine of the people has been disturbed for a long time. But they have faced all the problems very bravely with the help of their strong, positive, and helpful pature.

One thing we have intensively observed is that they are very eager about the education. But nowadays number of people (87.7%) who have Anatolid mobile phones and 66. 6% people had ensured that there is proper intenset range in their areas. Some parents are atread of the missise of the mobile, as well as there are just of electricity problems in the rule area.

Still the basic infrastructure is not available for providing online education. The people has also immed the number of people and arranged the

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functions in the presence of limited people only. About 82.5 % peoples are satisfied due to such functions. This is also one output of this lock down. People are also strictly aware about the personal as well as village cleanness and have avoided creating crowd. Around 98.2 % people are in the favor of early lockdown for the environmental balance.

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### मानवी हक्क आणि महात्मा गांधी राष्ट्रीय ग्रामीण रोजगार हमी योजना

हों. सुधीर आशुवा गेवले सहाधा च विभाग प्रमुख, समाजधारन विभाग, कालिकादेवी महाविधालय शिरुट (वव), जि. वीड (महाराष्ट्र)

#### प्रस्तवाताः

दरवर्षी १० डिसेंबर रोजी जगमराल आलरसहीय मानवी हवक दिवस राष्ट्र सच मानवाधिकार कार्यालया नेतृत्वात जगमरा स्थाना जाली सानवाधिकारको वैशिक वोष्णापत्र समुक्त राष्ट्रांच्य सर्वसाधारण समेते १० डिसेंबर १९४८ रोजी स्वीकारले त्यालय समुक्त राष्ट्रसंघाले १९५० अच्ये १० डिसेंबर हा दिवस मानवी हक्क दिवस म्हणून जाहीर केला. समाजातील प्रत्येक द्यालीचे स्थालव्य अवाधित रावये तसेच व्यक्तिया सल्मानपूर्वक जगला वाचे वासाठी १० डिसेंबर हा आवरराष्ट्रीय मानवी हक्क दिवस म्हणून साजरा केला जाली अन्तवाधिकाराच्या घोषणापत्रश्च ३० व्यक्तिय आसून या घोषणा पत्र वर आधारित मानवी हक्काचे आतरराष्ट्रीय विधेयक १९६६ मध्ये संयुक्त राष्ट्रसंघाच्या आमसमेल मांडण्याल आले १९७६ मध्ये पूर्वीच्या सदस्य राष्ट्रांच्या पाठीमध्यालास त्याला आलरराष्ट्रीय काव्याचे स्वरूप पात्र हाले. भारतात २८ सप्टेंबर १९६३ ला मानवी हक्क कावदा लागू करण्यात आला. त्यालस्य २२ ऑक्टोबर १९६३ मध्ये राष्ट्रीय मानवी हक्क आयोगाची स्वापना करण्यात आली. हा आयोग राजवीय, आर्थिक, सामाजिक आणि सांस्कृतिक व्यक्तियाला लागू करण्यात आला.१) अभित्यक्ति स्थालच्य २) मतदाल वरण्याचा तसेच लिवडणूक लढविण्याचा अधिकार ३) प्रत्येक व्यक्तिया स्थालच्य आणि सुरक्षेचा अधिकार ४) प्रत्येक रामाजीला स्थालच्य आणि सुरक्षेचा अधिकार ४) शिक्षणाचा अधिकार १) वाध्यवासकोर समाजाचेचा अधिकार अशा प्रकारचे एकूण २७ अधिकार आणणास मूलभूत सालवी हक्क दारे पात्र इत्राले आहेत

मानवी हक्क म्हणजे सर्व मनुष्याला प्राप्त झालेले असे मूलमूल अधिकार, जे त्याच्या राष्ट्रीयत्व, निवास, लिंग, जात, पर्ण, धर्म, भाषा किया इतर कोणत्याही स्थितीवर अवलगून नसते. यामध्ये कुठल्याही प्रकराचा भेदमाय तसतो. व्यक्ती मनुष्यप्राणी असल्यामुळे ज्या हक्काचा दावेदार ठरते त्यांम मानवी हमक संबोधने जाते.

#### मानवी हक्ताचे स्वस्त

- गुँचिकताः मानवी इवक वैधिक स्वरूपाचे आहेतः प्रत्येक व्यक्तीता आपले जल्मस्थानः जातः, प्रेथः, येथः, भाषाः, प्रमे, संस्कृती अथवा राष्ट्रीचताः वाशित्याय कारी मानवी स्थक असतातः
- श्वभाविकताः
   मानवी एकक मानसाच्या स्वभावातून उगम प्रायतातः प्रस्तुत इत्या कोणत्याही बाह्य संबंधियारे बहाल केलेले लसून व्यक्तीला कोणीही त्यापासून वंचित ठेम् शकत लागि.
- अदेयता : मानवी हरूक मानवाट्या स्थामावात दङ्खेले असल्याने प्रत्येक व्यक्तीला अल्माप्यसून उपलब्ध होतात.

### अ, भागवी हमकाचा वैशिक जाहिरनामा : १९४८

- क्रम्म । सर्व मानवज्ञात जनमतः स्वतंत्र आणि व्यक्ती प्रतिष्ठा व दक्काच्या वाचतीत समान आहे.सर्वांना वैच्यारिक शक्ति व मदसाविवेक बुदीची देणमी लामली असून सर्वांना वरस्वसाची बंधुल्याच्या मावनेने व्यवसार केले पाहिजे.
- वालम २ व्यस्तुत जाहीरलाम्यात लसूद सर्व हक्क व स्थातंत्र्य प्रत्येकाला उपलब्ध असतील यावावलील वंश, वर्ण, लिंग, भाषा, धर्म राजकीय अथवा इतर सत. राष्ट्रीय ए सामाजिक मूळ, दारितय, जन्म या इतर स्थाल या आधारे भेदभाव केला जाणार लाही. थालिवाय व्यक्तीला देश अथवा प्रादेशिक, राजकीय अधिकार क्षेत्राच्या अयवा अंतरराष्ट्रीय दर्जाच्या आधारे भेदभाव केला जाणार लाही, सग तो देश असी या स्वतंत्र प्रांत असी.

#### ब) मागरी व राजकीय हक्क

- 3) काम ३ सर्व शी-पुरुषांना सर्व नागरी व राजकीय हमकांचा उपभोग घेता यावा यासाठी नागरी व राजकीय हकका प्या संपीतीस सर्व (क्वाची हमी देण्याचा भवेगादस्य राष्ट्रे प्रयत करतील, त्यासाठी काम ३ व्दारा प्रत्येकाच्या ओवित, स्वतंत्री, व्यक्तीगत सरक्षेच्या हमकाची तस्तुद्द केली जाते
- ४) काम ४: कोणान्याही दयकीमा गुलामगिरीत ठेवता येणार माही. सर्व प्रकारची गुलामगिरी आणि गुलामांचा द्यापार यास प्रतिबंध भारतमा माहेल
- कलम न क्षेणत्यारी व्यक्तिया एक केला जानू लग्ने अथवा कोणत्यादी व्यक्तीला कुर, अमानवी अथवा अध्यानास्पद वर्तणूक अथवा विश्वी दिली जावू लग्ने

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६५- क्षांतम ६ प्रत्येकाला कावधासमोर व्यक्ती अरुपून सर्वेष मान्यता प्राप्त करण्याचा अधिकार आहे

- ७) कलम ७: मधीनण व्यवधापुढे समान असतील आणि कोणताच्च मदमाव ल वनता कायधाच्या समान संरक्षताचा सर्वाता अधिकार आहे. या जाहीरनाम्याचे उल्लंचन अववा उल्लंचनाच्या चेतावतीपासून संरक्षण करण्याचा सर्वाचा अधिकार असेम.
- कलम ८ : सविधान अच्या क्रायधाले प्रधान केलेल्या मूलभूत हथातचे उल्लंधन इतल्याम त्याविरुद्ध ल्याय मिळावा यासाठी सक्षम राष्ट्रीय लयादावाडे प्रभावी दाद जागण्याचा अधिकार आहे.
- ६) कत्तम ६ : कोणल्यापि स्वामिस मनमानी अट्रफ अथवा वेपस्यदेशीसीत्या स्थानम्ब करता येणार नाही किया स्ट्रपार करता येणार नाही
- (*) क्षांत्रम १० पटचेक व्यक्तिमा आपने इक्क व जवाबदार्या निर्धारित करणे आणि स्वठः वरीन गुन्देगारी स्वरूपाच्या असीपाबाबद सर्वोगा स्वतंत्र व नि: पतापाती नवादामाफैत न्यास्य आणि श्रुस्या सुनावणीचा अधिकार आहे
- गा) कामम ११ गुन्धाचे आरोपी असणारी व्यक्ति ऑपमेत मुनावणी होडम न्यायालबाद्दारे दोबी ठरवान्य जात नाही. तोपबैट तिमा निदीन मानले पाहिजे आणि न्यायालबी प्रक्रियत आपली बाजू मांडम्याचा दिला अधिकार आहे. एकाचा व्यक्तिने केलेले कृत्य प्रचलित राष्ट्रीय वा आंतरराष्ट्रीय कायधानुसार गुन्हेगारी भानले आचे. तसेच एकादे कृत्य केले तेव्हा प्रचलित कायपाठ जी किसा नमूद फेलेली असते त्यापेका अधिक शिक्षा देता कामा लये.
- १२) कलम १२: कोणत्याही व्यक्तीची बाजनी, कोर्टुविक आयुष्य अथवा प्रशन्ताहार यात मनमानी हस्तहोप करता मेणार नाही अथवा त्याच्या सल्मान आणि प्रतिष्ठा यावर अतिक्रमण करता येणार नाहिः प्रत्येक व्यक्तीमा अथा हस्तवीपापासून कायदेवीर संस्थान माराण्याचा अधिकार असेन.
- कलम १३: घटचेक व्यक्तीला आप=मा राष्ट्रांअतर्गतं कोलट्याही भागात संचार करण्याचा अधिकार आहे.लसेच प्रत्येक व्यक्तीला स्थलक्या राष्ट्रासह कोणतेही सष्ट सोइन जाण्याचा आणि राष्ट्रात परत वैण्याचा हकक आहे.
- १४) कारम १४ एक्सपासून संरक्षण मिळ्यण्यामाठी पत्येक व्यक्तिता देशात राजाबय पेण्याचा आणि तेचे वास्तव्य करण्याचा अधिकार आहे. तथापि, अराजकीय गुल्यात्त इयम पायणारी आणि मधुल सहस्रकृतेची सनद व तत्ये याच्यासी विसमत असल्यामुळे निर्माण होणाऱ्या ल्यायप्रक्रियेच्या विरोधात हा हरूक अवलंबता वेणार नाही.
- (५) कस्म १५: प्रत्येकाला राष्ट्रीयत्याचा अधिकार आहे आणि तोणाऱ्याही व्यक्तीला राष्ट्रीयत्य बेकागदेशीररीत्या रद्द करता येणार ताही
   अच्या राष्ट्रीयत्य बदलण्याचा व्यक्तीचा हरक लाकारला ज्यणार लाही
- 16) जलम १६: सुन शी व पुरुषाला वंश, राष्ट्रीयत्च अयवा प्रमे कामपारे कोणताही मेटमाय न काता विकाह करन स्वताचे कुटुंब स्थापन अर्थ्याचा अधिकार आहे. विवाह आणि घटरफोट यावावत सर्वाना समान हक्क असतील. विवाहया मुक्त आणि पूर्ण समतीने विवाह केला जाईन कुटुंब स्थापने हा समाजदील स्वामाधिक आणि मूलभूत हक्क असून कुटुंबाना समाज व राज्यकडून सरकाण पास अरण्याचा अधिकार आहे.
- (b) आहम १७ प्रत्येकाला व्यक्तीगत व सामुहिकरीत्या मालमता बाळगण्याचा अधिकार आहे. क्षेणत्याही व्यक्तीची मालमता कत्यदेशीररीत्या किराचन ऐसा देणार लागे
- १८) कलम १८ प्रत्येक व्यक्तीला विचार, विवेक आणि पार्मिक स्वातंत्र्य असेल, यात स्थत चा प्रमे वा संप्रदाय बदलण्याचा अधिकार लसेच व्यक्तीलत वा इतराच्या साहाय्याने आणि सावैजलिक वा ब्राजनीरीत्या विकायमुक, आवरण व उपासनेव्यास धर्माचा आविष्यार कारण्याचा अधिकार आहे.
- १६) कारम १६ प्रत्येकाला मत रवातंत्र व अधिष्काराचे स्थातंत्र्य आहे. या इक्कात कोणत्याही इस्तक्षेपाधिता मत बाक्कवण्याचा तसेच शीलांचा विचार न करता कीणत्याही प्रसारमाध्यमाव्यापे माहिती प्राप्त करणे तसेच माहिती व विचार प्रस्तुत करण्याचा इक्क समाविष्ट होती.
- २०) कातम २० प्रत्येकाला शांततामय मार्गाते समा मरविष्याचा आणि संघटना अधिष्याचा अधिकार आहे. कोणात्वाही व्यक्तीता एखादा संघटनेक सदस्य होण्याची सभी वेक्की जाणार नाही.
- २१) अलग २१ प्रत्येकाला अपत्येक्षपणे अषाच थुल्या पदलीने निवडलेल्या प्रतिनिधीच्यारे शासन कारमारात सहमागी होता वेईल. समेव प्रत्येकाला आपल्या देखातील सार्वजनिक सेवांचा ममान उपमोग घेण्याच अपिकार आहे. लोकसमती हाथ शासनसतेचा आधार असेल. निर्यामलवर्ण घेताल्या जाणाऱ्या निवडणुकामार्यन में जनसमती व्यक्त केली जाईल. या निवडणूक प्रश्लियेत सर्वजा समाम अधिकार असून या निवडणुका मुत अथवा थुल्या पद्धतीने आधीजित केल्या जातील.
- क) आर्थिक, सामाजिक आणि सांस्कृतिक हफ्क
- २२) करम २२: समाजचा सदस्य म्हणून प्रत्येजाता सामाजिक सुरक्षेचा हक्क आहे आणि आपली व्यक्तीगत प्रतिष्ठा तसेष व्यक्तिमत्याचा मुक्त विकासासाठी राष्ट्रीय प्रयक्ष य आंतरराष्ट्रीय सहकार्य आणि प्रत्येज देशाचे संघटत व संसाधनीच्या प्रमाणात आपले आर्थिक, सामाजिक, आणि सांस्कृतिक हस्त पास करण्याचा अधिकार आहे.

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२३) कलम २३: प्रत्येक ह्यक्तिसा कामाचा, आपल्या इच्छेन्स्प रोजगार निवडीचा, कामाच्या ठिकाणी ल्याय व अनुकृत परिस्थिति असण्याचा आणि वेकारीपासुन सरक्षणाचा हमक आहे. कोणत्याही व्यक्तिमा कोणत्याही भेदभावाविनासमान कामत्साठी समान येतन मिळण्याचा अधिकार आहे. काम करणाऱ्या प्रत्येक व्यक्तिसा आणि त्याच्या कुटुंबाला सन्माताने जगता याचे यासाठी न्याय य योग्य वेतन मिळवण्याचा हक्क आहे आणि पसंगी सामाजिकसुरक्षेची इतर साधने प्राप्त करण्याचा अधिकार आहे.

२४) कमम २४: प्रत्येकाला विश्रांती आणि विरगुक्याचा अधिकार आहे. यात कामाचे निधित व मर्यादित ताम आणि नियमित पगारी

स्टटीचा समावेश होतो.

- २५) कतम २५ प्रत्येकाला स्वतःचे आणि आपत्या कुटुंबाचे आरोरय व कल्याण साधण्यासाठी आवश्यक जीवनमान सम्बण्याचा अधिकार आहे. यात अन्तर, प्रस्त, लिवारा, वैषकीय सेवा आणि आवश्यक सामाजिक सेवाचा समावेश होतो. याशिवाय प्रत्येकाला वेकारी, आआरपण, अपंत्रत्य, वैचाय, वृद्धत्य विचा आपल्या नियंत्रणापलीकडे असलेल्या परिस्थितीमुळे निर्वाह प्राप्त करणे अञ्चय झाल्यास सुरक्षा मिळण्याचा हकत आहे. माता व बानके यांना विशेष वकारची काळजो आणि साहास्य प्राप्त करण्याचा अधिकार आहे. औरस तसेच अतौरस बातकांता समान तामाजिक संरक्षणाया हर्क्य आहे.
- २६) कलम २६ प्रत्येकाला शिक्षणाचा अधिकार आहे. किमाल प्राथमिक आणि मृतभूत स्थरावरील शिक्षण मोणत असेल. प्राथमिक शिक्षण सकीचे असावे. तात्रिक व व्यावसायिक शिक्षण सावित्रिक असावे आणि उध्वशिक्षण गुणवर्तेच्या आधारे सर्वांना उपतव्य असावे आनवी व्यक्तिमत्वाचा सवीगीण विकास साधने आणि मानवी हक्क व स्वातंत्र्यविषयी आदर बळकट करणे हा शिक्षणांचा उद्देश असेल. शिक्षणाददारं सर्व राष्ट्रातील वांशिक किया पार्तिक गढांमध्ये सामजस्य, महिष्णुता आणि मंतीस प्रोटसान दिले जाईल आणि संयुक्त राष्ट्रीयदारे शांतला राखण्याच्या कार्यास उत्तेजन दिले जाईल. पालकांना आपल्या पाल्यास कोणात्था प्रकारचे शिक्षण दिसे जावे याची निवड करण्याचा पूर्वधिकार असेल.

२७) कलम २७ प्रत्येकाला आपल्या समुदयाच्या सास्कृतिक जीवनात मुक्तपूर्ण सहमाग्र घेणे, फलाचा आस्वाद घेणे आणि वैशानिक प्रगतीयां लाम घेण्याचा इतक आहे. प्रत्येक व्यक्तिमा स्वतः निर्माण केलेल्या वैज्ञानिक, माहित्यिक किया फलात्सक निर्मितीतृत उद्देशवणाऱ्या नैतिक आणि सीतिक नामाचे संरक्षण मिळण्याचा हमक आहे.

२८) कलम २८ प्रस्तुत आहीरनाम्यात नमूद केलेल्या सर्वे हक्क ये स्वातत्र्याची पूर्वता शहेल अशा सामाजिक आणि आतरराष्ट्रीय स्थितीया प्रत्येक व्यक्तिला हरका आहे.

5) व्यक्तीचे कर्तव्य :

२९) कलम २६ प्रत्येक व्यक्तिमा आपल्या समाजापती काहि कर्तथ्य असतात, व्यक्तीच्या व्यक्तिमत्याचा मुता व परिपूर्ण विकास केयळ समाजात होय् शकतो व्यक्तीच्या हकक व स्वातल्याच्या अपभोगावर इतर व्यक्तीच्या हक्काता योग्य मान्यता देवून त्यांचा योग्य आदर राखणे आणि लोकशाही समाजात नैतिकता, सार्वजनिक कल्याणासाठी आवश्यक गरजाची पूर्वता करण्यासाठी कायचाने निर्धारित केलेले बंधनेच लादला बेतील. हंबिकिला आपने हंक्क व स्वातम्य संयुक्त राष्ट्रसंघटलेची उद्दिष्टे व तत्वे बास विसंगत उस्तील ज्ञाग प्रकारे उपभोगता येणार नाही.

3=) कलम 3° प्रस्तुत जाहीरनाम्यातील कोणत्यादी राष्ट्रातः गढास किंवा व्यक्तीस या जाविरनाम्यात नमूद केलेल्या हवक वा

स्वातंत्र्यस बाधा आणणारी कृती करता येणार नाही

मानवी हक्काच्या सतदेची एकंदर ३० कनमें आहेत. आर्थिक शोषणापासून व्यक्तियी मुदका झाल्याशिवाय त्याला प्रदान कैलेल्या रयकिरवातच्याचा तो बहुया अर्थात उपमांग पेङ राकत नाही याउलट स्यक्तिरयातच्याच्या अभावी आर्थिक शोषणाला खरायुरा प्रतिबंध करता येत नाही ही भूमिका सनदमध्ये प्रतिविधित झालेली आवळते. या सनदचा २३ व अनुच्छेद रोजगारच्या हक्काची मोडणी मतणारा

t) रोजगार मिळणे, रोजगाराची निवड मुक्तपणे करता येणे हा प्रत्येकाचा हक्क आहे. कामाच्या शती ल्याय ए पोषक असाव्यात हा

पट्येकाचा हरक आहे. वेकारीपासून सरक्षण मिळण हा देखील प्रत्येकाचा हरक आहे.

२)समान काम केल्यास मोबदल्यात कोणत्याही प्रकारचा भेदमाय न करता समान मोबदला मिळावा हा प्रत्येक व्यक्तीचा हमक आहे.

काम करणाऱ्या प्रत्येक व्यानीस न्याय्य व योज्य मोबदला मिळण्याचा, मानवाला साजेन अथा प्रतिष्ठेचे जीवन तिला व तिच्या

कुटुंबीयाना हमसास जगता येड्स याची हमी मिळण्याचा हक्क आहे. आपसे हितसबध अपण्यासाठी व्यावसामिक संघटना स्थापन करण्याचा च त्यात सहभागी होण्याचा प्रत्येकाला हक्क आहे. संयुक्त राष्ट्रातं स्थीकृत केलेली से सबद सदस्य राष्ट्रांनी संगत केली असती तरी ती त्यां स्तरायर कायदेशीररीत्या वंधनकारक नाही.

भारतीय संविधानात रोजगाराचा साकः सविधानातील भाग चौद्या 'राज्यधीरणाची लिट्टैशक तत्ये असा आहे. या भागाची असलवज्ञावणी सरकारला बंधनकारक नाही. तरी बरीचशी राज्य सरकारांच्या मजीवर लोडून देण्यात आली आहेत. त्याकरिता त्यायला जाता येत नाही संविधानाच्या चौथ्या आगातील कॉण ३९,४१,४३ या तील अनुछेदांचा रोजगाराच्या हण्कासवंशी येती. अनुच्छेद ३९ प्रमाने स्त्री य पुरुष मागरिकाला पर्यास हरारुपात उपानीविका हस्तंगत करण्याचा सारखा हक्क आहे. याची पूर्तता करण्यासाठी शासन विशेष करून आपली घोरणेअखील.

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अनुप्तंत्रेद 🛩 प्रमाणे. स्वतःची आधिक कुवत व विकास यांच्या मयीदेत रोजगाराचा, शिक्षणाचा व वेकारी, वृद्धत्य आजारपण अपगत्व व स्थतः या अपराध तसताना ओडवली हलाळीची स्थिती जशा प्रकरणी शासकीय संवाचा हक्क मिळवून देण्यासाठी शासन परिणामकारक उपायचीजना करील आणि ४३ नुसार मुखोरचे प्रायदे करन आर्थिक संघटन करन, व अन्य कोणत्याही प्रकारे शेती, उद्योगपदे य अन्य क्षेत्रे यातील सर्व श्रमिकांना रोजगार, जीवनवेतन पांगल्या प्रकारचे जीवल जगता येण्यासाठी आणि कुरसतीच्या वेळीचा व सामाजिफ सांस्कृतिक संचीचा पुरेपुर लाम वेण्यासाठी. आवश्यक सीवीसुविधा या गोटी मिळवून देण्यासाठी शासन प्रयत अरेल

जहातमा गांधी राष्ट्रीय ग्रामीण रोजगार हमी योजना

मूलभूत हक्क म्हणून नाही पण गरज् अमिकाना किमान मज्रीवर कामची हमी देणारा कायदा भारतात प्रथमच महाराष्ट्र गासताने १९५७ ना केला. कायदा करन काम मागणाऱ्या गामीण श्रमिकांता वाही अटीवर व निश्चित तियमानुसार काम पुरविण्याची हमी देणारे व विशिष्ट कालावधीत काम करू न शकल्यास प्रतीक रूपाने का संईता ग्रेक्टर भता देण्याचे वधन स्वीकार करणारे महाराष्ट्र है एयजेव राज्य आहे. सविधानातील शासनसस्येची धीरणांची विदेशक तत्त्वे: या भागातील एका महत्त्वाच्या तत्याची अंमलवजावणी करणारे पहिले पाउस महाराष्ट्र राज्याने टामले आहे.

यामीण भागातील रोजगार निर्मिती या क्षेत्रात देशातील इतर राज्यांना आदर्शकृत ठरसेल्या महाराष्ट्राच्या रोजगार हमी योजनेचे जनक आणि महाराष्ट्र विचान परिषदेचे समापतिपद अठरा वर्षे सामाळणार ज्येष्ट गांघीवादी मेते, स्पातञ्चसैनिक, तत्त्वचितक विठ्ठल संवाराम पाने हे होत. महाराष्ट्र रोजणार हमी अधिनियमाची १९७७ पासून महाराष्ट्रत अमलयजायणी सुरु झाली महाराष्ट्र शासनाने राज्य रोजगार हमी योजनेच्या नावात बदल करन महातमा गांधी राष्ट्रीय ग्रामीण रोजगार हमी योजना महाराष्ट्र असे नामकरण केले असून सच्या केंद्र शासनाची ही योजना राज्यात सर्व ह रावविष्यात येत आहे.

राज्यात महाराष्ट्र रोजगार हमी अधितियम, १९७७ तुसार दोन योजना सुरू होत्या त्या म्हणजे । यामीण भागात अकुशत ्यांतिकरिता रोजगार हमी योजना. २) महाराष्ट्र रोजगार हमी अधितियम, १९७७ फतम ७(२) (दहा) नुसार वैयक्तिक तामाच्या योजना.

सदर योजनांना राज्य शासनाच्या निधीत्न अर्थमहास्त्र केले जात होते

सत २००५ मध्ये केंद्र शासनाने संपूर्ण भारतात राष्ट्रीय यामीण रोजगार हमी भिचितियम (विधमान साव महातमा गांधी राष्ट्रीय यामीण

रोजगार हमी अधिनियम) लाग् केला तदनुसार महाराष्ट्र शासनाने सन २००६ मध्ये पूर्वीचा कायदा ठेवण्याचा पर्याय स्विकारला आहे. मात्र विधिमंडळाने केंद्रिय कायदयास अनुसंबत राज्यास तिथी मिळण्याच्या अनुपंगाने १९७७ च्या कायदयात आयश्यक त्या सुधारणा केल्या, त्यामुळे योजना रावविण्याच्या कार्यपष्ट्रतीत वदस झाला आहे

संय स्थितीत राज्यात महाराष्ट्र रोजनार हमी अधितियम, १९७७ (सन२००६ मध्ये वदल केल्यापमाणे) अंमलात आहे, व या योजने

- अ) महात्मा गांधी राष्ट्रीय यामीण रोजगार हमी योजगा महाराष्ट्रत या योजने अंतर्गत केंद्र शासन प्रती कुटुब tee दिवसांच्या रोजगाराची हमी देते य प्रती कुटुंब १०० दिवसाच्या मजुरीच्या प्रचीसाठी तिथी पुरवते. १०० दिवसावरीस प्रती कुटुंब मजुराच्या मज्रीचा सर्चाचा आयिक भार राज्य जासन उचलते.
- आ) महाराष्ट्र रोजगार हमी अधिनियम, १९७७ कलम ७ (२) (दहा) मुस्पर पैयक्तिक लाभाच्या योजना गात जवाहर विहिर योजना आणि रोह्यो अतर्गत कळवाग लागवंड योजना

सदर्भः

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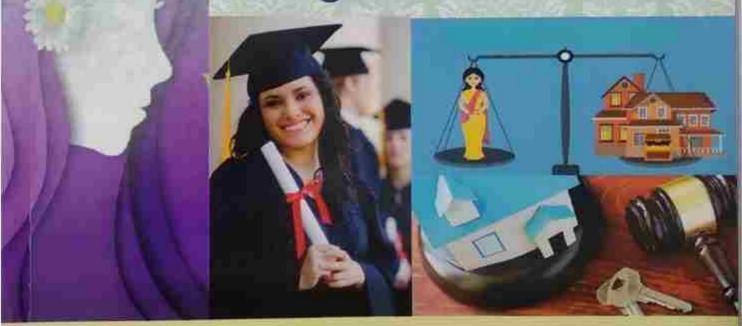
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Women's Rights: Status & Goal



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संशोधन मार्गदर्शक व विभाग प्रमुखासमानशास्त्र विभाग कारितकारेची कला,वाणिन्य व मिज्ञान महाविद्यालय,शिहर कारतर, नि.बीड.

मदायीवतान विभाग, स्वा सावरकर महाविधालय,बीड-४३१ १२२

### 🌣 प्रस्तावना (Introduction) :

भारेपारिक पुरुषप्रधान भारतीय समाजात महिलांना अवला समजावता येई त्यांना कौदुांबक,सामाजिक तसेव राजकीय क्षेत्रातील ससीपासून वंबीत ठेवले जात असे राजकीय सत्ता डिकाणच्या ससीया स्वीत साती महिला ७३ व्या घटनातुरुक्तीन महिलांना संबत बनीवण्याकारिता पंधायतराज व्यवस्थेत नाणीपूर्वक ३३ टक्के आरक्षण देऊन त्यांना सत्तेत सामाजि करन घेणाया प्रयत्न केला आहे सध्या २०११ पासून पंधायतराज व्यवस्थेत प्रज्ञास टक्के महिलांना आरक्षण दिले आहे आरक्षण दिल्यामुळे बरेव महिला सरपंचाया दर्जा स्वातण्यास अर्थात त्यांचे सबलीकरण होण्यास मदत आली आहे कार हे अभ्यासल्याचा प्रयत्न प्रस्तुत संशोधन विश्वधायधी केलीला भाडे या शोधनिविधायको प्रामुख्याने महिला सरपंच आल्यामुळे विच्या कौद्रीवक दर्जात कोणाल बदल घड्ना आला हे जस्यासले जाहे.

महिलांच्या सबलीकरणाचा विचार करताना त्याच्या जवळती पुरुषाप्रमाणे उल्लम प्रशासकीय कोशल्ये,रब्जासकी, अवांक्र आणि निर्णयक्षणता असते,परंतु त्यांच्या बाबतोत सामाजिक,कोट्संबक प्रक्रियाची उणीव व कमतरता दिस्त पेते. मीबला सबीलीकरण व कुटुंबातील त्यांच्या दर्जात्मक कृष्टीमधील हा प्रमुख अडणका आहे. महिला सबलीकरणाच्या संदर्भत स्वीवादी अभ्यासक मनीचा गुप्ते बांच्या मते,आपल्या शरोसबहल,पनाबहल,शिक्षणाबहल,नोकरी,लान, मुंले हवेत की नकी, किती आणि केला या समीवदाल मन मोळळेएमाने कोणाध्याही स्वायामाली न साता स्वतःचा निर्णय स्वतःचा येता येण म्हणाने महिला मबलोकरण होई तसेच स्वतः में निर्णय घेण्याबरोबरच इतर महिलांचे प्रश्न समकृत घेणे वरकरणी चित्र दिसणान्या अनुधवामध्ये सास्ते सोधव आणि सामाजिक पातळीवर सर्व पहिलाचे प्रश्न समजून पेकल मोहणे तसेच एककितवणे आणि परस्पर महकार्यातून या प्रश्नांची उसरे शोधणे हा महिला सबलीकरणाचा महत्त्वाचा टप्पा आहे. तर थोशिक सुशीमा यांच्या मंते राजकीय सत्तेतील निर्णय प्रक्रिकेत प्रभावीपणे सहभागी हीण्यासस्त्री महिल्यंची राजकीय सतेतील संख्या आणि त्यांचा स्तर हा योग्य प्रमाणात असणे आवश्यक असते. त्यामुळे महिलांना आपल्या निर्णय क्षमतेला वाव देना येतो आता ही संख्या ७३ व्या घटनाडुरुस्तोने ३५% आणि २०११ प्रासून पंचायतराज व्यवस्थेपध्ये ५० टक्के झलोली आहे.या कारकणामुळ महिलाची स्पनिक राजकीय क्षेत्रतील संस्था बाहबण्याम परत ह एसेली आहे, पण केवळ राजकीय सरेतील संख्या वादणे सबलीकरणाकारता किया महिलांच्या दर्जात्मक सुधारणाकारता **महत्वाचे** नसन त्यांना निर्णय प्रक्रियेत सहभागी होता काले पाति ने कसे असले तरी अनेकदा पहिलांना या राजकीय सहभागामुळे सफसपथ मानपान पिळतो परंतु कुट्रैसामध्ये हा मान पिळतो का अध्यासण्यासाधे संशोधकाने प्रस्तुत शोधीनवेषात महिला सरपंतान सनकीय. प्रशासकीयस्तरावर मानः प्रतिष्टा मिळतः जसली तरी त्या क्या कृदंबातून आतीले आहेत त्या कृदंबातील त्यांचा दलो नेमका कोणार आहे. त्यांच्या कोट्रिक्क दर्शात सरपंच आल्यामुळे काती बदल झाला आहे का ? हे अस्यासणाचा प्रयत्न केलेला आहे प्रस्तुत संस्थेषन हे वर्षापक माहितीच्या आधारे केलेले आहे.

### 💠 अञ्चासाओं अधिष्टे (Objectives of Study) :

- श्वामारंचायतीचे नेतृत्व करणाऱ्या महिला सरपंचाच्या नावावर स्वाई मालपत्ता आहे का? वाचा अध्यास करणे;
- महिला सरपंथांना परकामात कुट्रंबाकपुन मिळणाऱ्या महतीया अध्यास करणे;
- ३)महिला सरपंपांना त्यांच्या कृदंबात मिळणाऱ्या मागणुमीचा अच्यास करणे.

### 💠 अञ्चासाधी मृहितके (Hypothisis of Study) :

- र)पहिलाच्या नावे पारंपारीक स्वायी मालमत्ता केली जात ताही.
- र)पहिला गावची प्रमुख झाली तरी तिच्या पारंपारिक आणि कोटुंबिक दर्शत बदल होत नाही.

### 💠 संशोधन पध्यती (Research Methodology) :

प्रस्तुत संशोधन हाती घंतान्यानंतर समानशास्त्रीय संशोधन पच्यतीचा वापर करून बीट जिल्ह्यानील प्रामयंचाया स्वस्थर नेतृत्व करणाऱ्या परंतु पत्रास टक्के आरक्षण लाहीर होण्याअगोदर नेतृत्व करणाऱ्या महिला सरपंचावा कोट्टॉबक स्तरावर दर्जात्पक है

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गलेला बदल अध्यासला आहे. हा अध्यास हा अध्यास करलांना शास्त्रीय पध्दीतीचा वापर केला बीड जिल्ह्यातील महिला आरक्षण ग्रदावर नेतृत्व करणाऱ्या इसबी सन २००६ ते २०१२ दरम्यान नियद्भ आलेल्या ३३८ महिला सरपंचा पेकी संभाव्य नम्ना निवह विक्रयेतील स्तरीत याद्धिक नमुना निवडीच्या आधारे बीड जिल्ह्यातील ११ तालुक्यातून १/३ नमुना निवड करून खणजेस ११० महिला सरपंचाचा अभ्यास वरील उहिच्छोना अनुसरुन करून प्रस्तुत शोध निबंध लिहिला आहे.प्रतिसादक पहिला सरपंचाकद्वन वार्धांमक पाहिती पिळविण्याकरीता मुलाखत अनुसूची निरीक्षण तंत्राचा वापर केला आहे.संकोलत केलेल्या प्राथमिक पाहितीच आइरोकरण आणि विश्लेषण सारणीच्या आधारे केले आहे.सारणीतील संख्यिको महितीचे विश्लेषण करण्याकरीता शेकडेवारी क्टतीचा वागर केला आहे.

### पाहितीचे विक्लेपण(Data Analysis):

### महिला सरपंचाचा स्थाई मालमत्तेवरील मालकी इक्क :

पारंपारीक भारतीय समाजात महिलांच्या नावे मालमत्ता केली जात नसे.पुरुष प्रधान संस्कृतीमुळे भारतीय समाजात कुटुंबाचा वारसा हा मुलाकडे जात असल्यामुळे कुटुंबाची जमीन आणि घराची मालको परंपरेने महिलांकडे नहती तर पती,मासरा किया पुलाकडे जात असे.महिलांच्या नाचे ती केली जात नसे,परंतु आधुनिक काळातील कायधामुळे महिलांनाही बृहंबाच्या पालमत्तेत वाटा पिळ् लागला आहे.पहिलांचे नावे जमीन घरे सारखी स्वायी मालमत्ता असेल तर पहिलांना त्यांच्या जीवनात स्थिता. आल्यासारखं वाटते.अनेकदा चारित्र्याच्या संशयावरून व अन्य किरकोळ कारणावरून महिलांचा परित्याग केला जातो.सस्पेव पदावरील महिलांचा कार्यालयीन कामकानाच्या निर्मिताने परपुरुषाशी संबंध पेतो. अशा वेळी चारित्य हनन होण्याची भिती असते. त्यातुन परित्याम,चटसफोट होण्याची शक्यता असते अशा वेळी स्वतः च्या नावं जमीन,घर असल्यास महिला अशा संकटात खंबीरपण आणि धोराने सामोरे जाक शकतात.त्यासाठी महिला सरपंचाची सबलीकरण आणि त्यांचा कृटुंबातील दर्जा अध्यासतांना त्यांच्या स्वतःच्या नाथे नमीन,घर सारखे स्वायी मालमता आहे किया कसे हे पाहणे अगत्याचे वाटले क्रम्यासलेल्या प्रतिसादक महिला सरपंचाच्या वैयक्तिक नावे नमीन आहे किया कसे तसेच घरासारखी मालमत्ता त्यांची नावे केली नाते किया नाही ? पायहल महिती मिळवण्याचा संशोधकांनी प्रयत्न केला असता मिळालेल्या माहितीचे विश्लेषण सारणी क्रमांक १ मध्ये दिले आहे. सारणी क्रमांक १

### प्रतिसादक महिला सरपंचाचे त्यांच्या वैविकाक नावावर असणाऱ्या स्थापी मालमनेनुसार वितरण

ж. <u>ж</u> .	स्थापी भातमत्ता	स्थायी मालमसेचे स्वरूप			
		जमीन	प्रमाण %	घर	प्रमाण %
2	होय	36	38.44	to.	90.90
2	नाही	9.5	E4.Y4	200	69.68
	एकण	220	200	170	200

महिला सरपंचाच्या स्वतःच्या नावावर असणारी अभीत ही एकुण १९० प्रतिसादक महिला सरपंच पेकी ३८ महिला सरपंचाच्या (३४.५५%) स्वतःच्या नावावर नमीन असल्याचे आढळून आले. तर ७२ (६५.४५%) महिला सरपंचाचा स्वतःच्या नावाचर जमीन म्हणलेख र/३ महिला सरपंच दुसऱ्याच्या नावे असणाऱ्या नमीनीच्या आधारे जगताना आढळून आल्या

ज्या महिला सरपंचाच्या नावे जमीन आहे तो निकृष्ट दर्वाची आणि खूप कमी म्हणजे वार एकर पेक्षा जास्त

नमीन नाही असही आवळून आले आहे.

### 🍄 महिला सरपंचाची राहत्या घराची मालक :-

अभ्यास असलेल्या अनाल ११० ग्रामपंचायतीची नेतृत्व करणाऱ्या प्रतिसादक महिला सरपंचापेकी १० महिला सरपंचाच्या स्वतःच्याः नावावरं घर आहेतः स्यमालकीचो घरी असणाऱ्या प्रतिसादक महिला सरपंचाचे प्रमाण केवळ ०१.०१ टक्के आहे तर १०० प्रतिसादक महिला सरपंचाच्या स्वतः च्या नावावर घर तसून त्याचे प्रमाण (९०.९१%) इतके मोठी आहे.

वा माहितीवरुन असे रूट होते की. घरासारखी स्थावर मालमत्ता महिला सरपंचाच्या नावे फारशी आढळुन आलेली नाही. न्या १० महिला सरपंचाच्या नावाचर घरे आहेत तीही शासकीय योजनेतुन महिलांच्या नावाचर मिळाली असून ते पारपारिक वारसा हमकाने मिळालेली नाहोत.

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### 💠 घर कामात मिळगारी मदत :

महिला मरपंचीना सरपंच प्राप्त अनेकवेता राजा,वेशवर,सजारंग, आणि करणांनातेन कामाकरिता सकाती सरका कोर न्याचे लागते. कतो बेजा बारेरणाची हो नावे लगते. आनेक्या परी जीवरा याचे लगाने आता मेडरी स्वयंगाध आणि कुटूबारील इस करो करमें करण्यास त्यांना प्रत्यकात कोण प्रदेश करते का याविकाची प्रतिसादक प्रक्रिया सरपंचाकाटुन (माजानंत्राम सर्वातीचे क्रिक्टिक मारणी प्रमाण न मध्ये हिलेले आहे.

### भारणी क्रमांक २

प्रतिसादक महिला सरपंचाचे त्यांना कृट्यात घरकान आणि स्वयंपाक या काथात घरल करणाऱ्या व्यक्तीनुसार वितरण

e willen	Highelig schieft de Casto et auch	Andrai	प्रयाण (%)
R.B.	धरकाम आणि स्वयंपाक या कामात मदत करणाऱ्या व्यक्ती	(११० ग्रेकी)	
		50	rere
5	सास्	25	13.63
₹	形	te	re.re
3	अन्य निरमा		10/05-709
¥	स्वतः (इतर करणी नहीं)	65	2000

(बहु प्रतिसाद सारणी)

सारमी क्रमंक २ वसन असे निर्मात्तस यंते की बहुसंख्य प्रचने ११० पैकी ८५ (७७ २७%) प्रीतसादक प्रीतर सार्पञ्चन स्वतः प्रकाम आणि स्वरंगाण करन भगा प्रधानांत पाता येते उत्तीत्वा २० महिला सार्पचाना त्यांच्या सान् (१८.१८%) सून (१३.६३%) वा कुटुंबलील अन्य प्रतिला (०१.०५%) (मूनगो,नाक.नर्थन,कुवित प्रसंगी करमवाली) बॉब्वकडून मदत मिनत समन्याचे सदस्य आहे.

कारून बद्धांका प्रतिसादक सरवंच महिलांच परकाम,स्थयंपाको कामें करायों स्थानतात त्याला पर्धाय माही, त्या सार्वय इतल्या तरी त्यांची पृष्टिणी परत्यता या जवाबरारीपुन कविशाध सृटका होते असे विसून आलेले आहे.

### 💠 मुलांचा सांभाड करण्यासारी मिडणारे महकार्य :

महिला संरर्भशांना कार्यालयोन कार्गार्नासत बाहेरराची लावे लागते त्यामुळे त्यांना सक्षान मुखे असल्यास स्थांना सामाज करण्याची जबाबदारी कोन घेते.या कामात कुट्बालील अन्य सदस्यांचे स्वकार्य त्यांचा मिळाते का ? आई आणि सरगंच या दोनी भूमिका निभागतन्त्र महिला सरांचांना या संदर्भात प्रत्यक्ष मिळतः असलेल्या कृदेशस्या सहकाराच्या बानतील विश्वासने असता त्यांने रिलेस्य महिताय विस्तेषण सारणी क्रमांक ३ मध्ये रिलेमी आहे.

#### सारणी क्रमांक व

प्रतिमादक महिला सरपंचाचे त्यांच्या अनुपस्थितीत त्यांच्या मुलांचा सांधाळ करणाऱ्या कृदेशातील सदस्यानुसार विकास

京主	मुलांचा सामाङ करणाऱ्या व्यक्ती	एक्षा (११० पैकी)	प्रवाचा (%)
\$	पती :	86	26.35
20	सास्-सासरे	₹#:	ww
1	मुले पाँठो प्राप्ता आहेत	34	35.95
¥.	मुले नाबीत	to	90.50
90	पुलांना सामत घेऊन नार्व लागते	ijo-	88.83

(बहु प्रतिसाव सारणी)

आरणी क्रमांक ३ वरन दिसून येने को ११० प्रीतसाथक स्थिता सरपंच यापैकी बहुसंख्य स्ट्याने ०० (६३.६३%) यहार सरपंचांना कागानिमित कारेरणवी जाताना आपली मूले सोबत घंडन नाणे क्रमध्यात ठरते. तर काडीना त्यांची साम् गार्मी (१८.१८%), पत्ती (१६.३६%) वाकामी मदत करतालकातीना अदाता मुले नाही तर बन्यास (२२.७२%) जानीची पूर्व केंद्री प्रमेली आरेत

क्ष्यान बहुसंख्या प्रतिमादक महिला सरपंचांना मुलाना सोबत घेऊनच सरपंच पदाची नववाबदारों चार पदाची संबंध जम्म कांडील्या बाबतीत पती व आणि तुन्द्रबीय मुलांची अवबदारी घेत असल्याचे दिस्त गेते.

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### 💠 ऋदंबात मिळणारी वागणक :

पारंपारिक भारतीय समाजव्यवस्थेत महिलांचा दर्जा पुरुषांपेक्षा कनिन्ठ मातला अती त्यांचे कर्तव्य फक्स वृत्र आणि मूल एवर्डेच समजले जाते परंतु ७३ व्या घटनाद्रुरुस्तीने महिलांना प्रचमस क्टूंमा बाहर पडण्याची तसेच राजकारणात प्रस्का सहप्राणी होण्याची आणि गावच्या प्रमुख पदी विराजमान होण्याची संघी मिळाली.सरपंच झाल्यामुळे महिला सरपंचाच्या कोट्रीक दर्जात मकारात्मक चंद्रल झाला आहे का ?त्यांना कोर्टुबिक निर्णयात सहभागों कठन घेतले जाते का? त्यांचे घर काम कमी होणे.हातो काम कमी होणे.पतीसह कुर्दुबातील अन्य सदस्यांनी त्यांच्याशी आदराने वागणे.इत्यादी दर्शात्मक बदल पदुन आला आहे आ'पाबहल प्राप्ति सरपंचाना विचारले असता मिळालेल्या माहितीचे विश्लेषण सारणी क्रमांक ४ मध्ये दिलेसी आहे.

### प्रतिसाद्क महिला सरपंचांचे त्यांना त्यांच्या कृदंबात मिळणाऱ्या वागणुकीनुसार वितरण

<b>31.旅</b> .	कुटुंबात मिळणारी बाग्णुक	एकृण (११० पैकी)	प्रभाग (%)
3	कोर्ट्रावक निर्णयात सहभागी करने न चेणे	55	\$0.00
4	सरपंच म्हणून क्योदा करणे	77	50.00
<b>3</b>	कौर्विक इळ अरणे	Be .	20.70
8	वरील प्रकार काही नाही	16	33.63

#### (बहु प्रतिसाद सारणी)

अध्यासलेल्या ११० प्रतिसादक महिला सरपंचापैकी बहुसंख्य ६६(६०.००%) महिला सरपंचांना कोट्रीडक निर्णयात कथीच साधार्गो करून घेताले जात नाही किन्नहुना ३० महिला सरपंचाना (२७.२७%) औटुकिक छळास सामोरे नावे लागल्याचे तर २२ लंगीची (२०.००%) सरपंच परणून कृचेच्टा फेली जात असल्याचे आदळून आले.मात ४/३ महिलांचा या बाबतीत अपवाद आदळम आला. यावरून महिला जरी सरपंच झाल्या तरी सर्वानच कुट्यात चांगली बागणुक व मानमरातब पिळातांच असे नाही.

### 💠 उळक शोध (Salient Findings ) :

रोबहर्सच्या प्रणानेच (६५.४५%) महिला सरपंचाच्या नावे आजही नमीन नाहीं मात्र काहीनो (३४.५५%) महिला सरपंचांनी आपल्या जवळ जमीन असल्याचे नमुद केले आहे मात्र ही जमीन धारमा हक्काने की धारी करून मिळवली ते समन् रुकले नहीं. तसेच या जमीनीचे प्रमाण जास्तीत नास्त चार एकर हुन आधिक नाही आणि तो कोरडवाह स्वरूपाची आहे.

२)अगरी नगम्य म्हणजे १% प्रतिसादक महिला सरपंचांनी राहते घर त्यांच्या नावावर असल्याचे नमुद कले आहे है घर त्यांचा पारंपारिक मिळालेली नसून शासकीय योजनेतून त्योच्या नावे पिळालेली आहेत.महिलांसाठी पराच्या बाटपात प्रापान्य देण्याच्या

 मिहलांची आजही आदळणारे सामाजातील दुष्यम स्थान ती सरपंच झाली तसे तिला घरगुती आणि अन्य नवाबदारीतृत मुक्त होंक. सरकारों घोरणामुळे हे शक्य झाले असावे. देत नाही त्यामुळे **बहुसंख्य (७७.२७%)** प्रतिसादक पहिला सरपंच गृहिणी,सखी,माता आणि ध्यमप्रमुख अरण विविधांगी भूमिका पर

४)बहुसांच्य प्राणनं ६३.६३% महिला सरपंचाना आनही कामानिमत बहिर जाताना अपली मुले मोबत पेऊन नाणे धाग पहते.

५)गावच्या प्रमुख असुनही आज हो ६० टक्के महिला सरपंचीन स्थार च्या कुटुंबत निर्णय चेताना सहपारी करन चेताने जात नाही. ६)२०% महिला सरपंचांची सरपंच म्हणून कृचेच्य केली जाते. तर २७.२७% सरपंच महिलांचा कोटूबिफ छळ केला जातो.

र निकार्ग(Conclusion) :

न्युConclusion ) : महिला सबलोकरण हो रामानामध्ये पुरुषात्या बरोबरीनं महिलांना उच्च अधिकार प्राप्त करून देणारी प्रक्रिया होय खड़ारे महत्वा संबत्ताकरण हा समानामध्य पुरस्ता । पहिला राजकीय संस्थाच्या माध्यमातून सत्ता आणि अधिकार यान करून सामाजिक विकासाच्या प्रक्रियेत सहभागी होऊन स्वताचे भागा राजकाय संस्थाच्या माध्यमातून सत्ता आण अस्त्याचा अनुवान त्या अनुवान आतंती ७३ यो पटना दुरस्तो मात्याची आणि त्याच बरोबर अन्य महिलाचे सबसीकरण करून आण् शकतात त्या अनुवान आणा वर्ग पटना दुरस्तो मात्याची जान त्याच बराबर अन्य महिलाच सबलाकरण करना है। असली नरी, अजुनही महिलाचा राजकीय क्षेत्रातील सहभाग संख्यात्मक पृष्ट्या बांडला असला तरी गुणालक दृष्टीने वाडलेला दिस्त असली नरी, अजुनहो महिलाचा राजकीय क्षेत्रातील सहभाग संख्यात्मक प्राचन विभावत दिसन सेवे अजुनहो स्ट्रिक्ट असरना नरी, अजूनहो महिलांचा राजकीय क्षत्रातात सम्भागतात वर्ष भोतं तकावत दिसून येते अजूनहो महिलांचा सरपंच म्हणून येत नाही, कारण महिलांचा सामाधिक दर्जा आणि कुटुंबातीण गर्जात वर्ष भोतं वर्षकार महिलांचा सरपंच महणून यत नाही, कारण महिलांचा साम्योजक दनो आग्या कुट्रमाता. मान-मरातब मिळतोच असे नाही, न्यांना समानामध्ये भान भसला तसे कुट्रबाह गाउ मान मिळतो असे वरील अभ्यासावरून दिसत Website - www.nacharsocial com Fmail - antharsocial@gmail.com.

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नारो तसंच महिलांन स्थाई मालमारेत समान कटा असला तरी त्यांच्या नावे मालमारा केल्याचे हिसून केत नावे अनुस्त्रे को मृक्तियों माणुनच कृतुंबात करम करावे लागते.त्यांची वा पारंपारीक कामगुन सूरका झालेशी नाही.

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- कोगदात पेथा,दरन कुलकर्मी (२००७) : सता व सबतोकरण: आलोचना,स्वीविषयक संग्रह व संगोधन केंद्र, पूर्व
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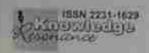
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Research Journal Publication Committee Dr. M. K. Umathe College, Nagpur



### A SOCIOLOGICAL STUDY OF EFFECT OF COVID-19 ON MARRIAGE CEREMONY WITH REFERENCE TO SHIRUR (KA), TALUKA OF BEED DISTRICT

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HHH

Abstract - Proposed work has been conducted in a scientific manner in line with objective to study the effect of covid-19 on marriage ceremony and to study the changing perspectives of the society towards traditional marriages with respect to five villages namely Rakshasabhuvan, Padli, Warni, Kolwadi and Dahiwandi in Shirur Kasar taluka of Beed district in Maharashtra region'. Google form is customized and has relied to collect data in this regard. Said investigation is based on preliminary data collected in Google spread sheet via Google form. The data is analyzed on the basis of quisitionnaires, observations, techniques for compiling basic facts. Although the study was conducted virtually. the sociological approach is evident. The views of 82 villagers from the above five villages have been incorporated in this study. Due to the time bounds applied by UGC for this study the limited perspectives were studied.

Keywords: Health, Community, Awareness, Marriage

Introduction - in the present manuscript, the authors focused on the changes occurred due to covid-19 situation in traditional marriage institution & in the traditional attitude of the society towards marriage institution. Marriage is an important institution in Indian society. The history of this marriage institution is four to live thousand years old and the appearance of marriages is changing in modern era. Although the institution of marriage is universal, the nature of the institution of marriage is different in every culture Every country has a different culture and nature. Regarding the institution of marriage, Bogardus says; The institution that allows men and women to enter into faintly life is the institution of marriage." According to Mukherjee, "the formal sexual intercourse between a man and a woman through religious rites for the purpose of sex, son and religious work is called marriage. Hindu marriages are mainly based upon the objectives viz religious function, procreation and sexual pleasure.

Marriage is necessary for the continuity of race and society Marriage creates marital relations and also creates a duty relationship

Corona is a name of a group of viruses. India suffered a lot due to this virus. SARS discovered in 2003, and MERS discovered in 2012, are also diseases caused by the corona virus. But the corona virus that was found in the outbreak of the disease in December 2019 in Wuhan. China is different from the previous one, so it is called the novel Corona virus. The World Flealth Organization has named the disease Covid-19. COVID-19 is the name given by the World Health Organization (WHO) on February 11, 2020 for the disease caused by the novel Corona virus 5ARS-CoV-2 It started in Wuhan, China in late 2019 and has since spread worldwide. COVID-19 is an acronym that stands for Corona virus disease of 2019. The virus is also named after its shape which takes the form of a crown with protrusions around it and hence is known as corona virus.

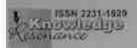
The disease has been reported in many parts of the world. India could not stay away from this disease. The Covid-19 has infected millions and killed scores of people all around the world. Marriage is an integral part of society, so though the world stopped on the background of Corona, but marriages not. The marriages were organized during this Covid-19 period also, but somewhat differently. And if so, how did it happen? The present study has been undertaken to present the new approach regarding Indian marriages

Importance of Study: The research presented is important to understand the impact of traditional Indian society on marriage ceromonies, the resulting costs, the current perception of simple & short marriages in somety and the direction of future marriage institutions.

Study Method:For this study, five villages of Rakshas Bhuvun, Padii, Danihandi, Kolwadi and Warni in Shirur Kasar Taluka of Beed district of Maharasistra were

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meturer Kalikadevi Arts Com & Sci College. Shrun(Ka.) Dist Baed.



identified and selected. Authors intention in selecting these villages was that a special camp of our Kalikadevi College's National Service Scheme was held in these villages. Since the study was conducted during the lockdown period, Google Forms were used for data collection. We reached out to the villagers on social media and the questionnaire was filled out by the people. A total of 82 villagers participated and filled out the questionnaire online.

 To study the effect of COVID situation on organized marriage organization

 To study the modified artified of the society towards traditional marriages

The study is presented in accordance with these objectives. As the research study was conducted by the Department of Sociology, some of these questions were asked from the sociological point of view.

#### Objectives of Study:

Data Analysis: Table No: 01

Wedding ceremonies during the lockdown Period

5r. No.	Wedding ceremonies	Total	(%)
1 2	Reduction in Number of attendens	70	85.04
	Keeping social distance distance	41	50.00
	Simplicity	37	45.01
	Refused marriage organization	04	04.09

(Multi Respondent Table)

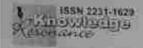
According to Table 1, out of 82 villages in Shirur Kasar taluka. 85% of the respondents said that they got married in the presence of less bridal party (Number of attendees) congregations. According to 50% of the respondents, the marriages were solemnized on the basis of social distancing and 45% of the respondents were married with simplicity. Only 5% said they refuned to marry during the lockdown period.

Table No: 02 A changing perspective on marriage during the lockdown

changi	ng perspective on marriage during the totale 19 Period Changing Perspectives on Marriage in Covide 19 Period	Total (Ou	1 of 52) (%)
E No.			50.00
	# More exemplorly gota uplif	43	76.08
	The imitation of a big wedding ceremony gota split This avoids the cost of orphans at the wedding ceremony. This avoids the cost of orphans at the wedding ceremony.	63 36	63,09
	This avoids the cost of orphans at the western by the society. To organize a small ceremony was approved by the society. More money should be demanded from bridal family as the More money should be reduced.	.09	13.00
6	More morely should begennesses	15	43.09
	Rituals are important in a wedding cereminy	36 39	47.06
6	In future, the government and an arremony	34/	41.05
7.	only fifty people attend awcounting techniques.  No one was upset during this period as not invited.  No one was upset during this period as not invited for weddint.  Our daughter's wedding cost a lot and her expenses were	07	08.05
ō:	Our daughter's wettings saved, so many people were upset  If the marriage is simple and cheap, there will be a less  If the marriage is simple and cheap, there will be a less	43	52.04
9	burden on the price Par		
	(Multi Respondent I	able)	

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According to 82 respondents from five villages in Shirur Kasar taliska, covid-19 among the majority, i.e. 76% respondents, has reduced the orphanage expenses incurred on marriage ceremony. Also, 52% of the respondent's opinion is that if the marriage is organized. with simplicity and in a low cost budget, burden of bridal family is reduced. According to 43% respondents, small weddings are socially accepted in the society, so the imitation of big weddings is rife because 41 per cent said that no one is upset because they did not invite them to the wedding. In the wedding ceremony, the appearance and the bridai party congregation are not important, the ritual is important. This fact is recognized by the society. According to only 11% of respondents, a short and simple marriages saves money of bridal family hence more money should be demanded.

Conclusion - In the studied Shirur taluka region, covid-19 has curbed the grandeur of marriage ceremonies by emphasizing the importance of marriage rituals, so it sectus that people will prefer small wedding ceremonies in the future. It was also seen that there is a mindset that the government should legislate for small marriage ceremonies. The less number of girls in Shirar taluka due to the orphanage expenses incurred in the marriage ceremony will tend to increase the proportion of girls. In short, in Shirar taluka, Covid-19 situation has reduced the cost of traditional or ceremonial expenses, and it has been seen in the mindset that it should remain the same in future.

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INDIAN WOMEN: PRESENT, PAST AND FUTURE









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मालिकादेवी कला, वाणिज्य व विज्ञान महाविद्यालय, शिरूर (का) मो. ९४२१४७७८५४.

#### प्रसावना :

१९८० नंतरच्या कालखडातील स्त्रियांनी आणि प्रस्थानी लिहिलेल्या एकंदर कथात्मक माहित्यातील महत्वपूर्ण आणि प्रसावी साहित्य म्हणून गौरी देशपांडे यांच्या साहित्याचा उल्लेख आंगवार्थ उरती. एकंदर कथात्मक साहित्याच्या तुलनेत स्त्री-निर्मित साहित्य कमी आहे. गौरी रेशपांडे यांचा जन्म ११ फेब्रुवारी १९४२ व मृत्यु १ मार्च २००३ रोजी झाला गौरी देशपांडे यांची कथा, कादंबरी लिखत लेख, स्फुटलेखन, लिलितंर लेखन, भाषांतर, कविता, संगोधन वासारखें सहााशी साहित्य प्रकारमध्ये लेखन केले आहे. गौरी देशपांडे यांच्या साहित्याविषयी संपादकीय मंगियतात वि.म. गीताली म्हणतात गौरीन माणसाच्या देहाकडे स्मीदेह आणि पुरूषदेह या देत भावनेत न बगता निक्कल मानवी देह म्हणून विद्याल जाव अस म्हणत स्त्रीन्याच देहाभोवती कारलेले नैतिकतेचे निक्क तोडायला सुरूवात केली. २० व्या शतकातील आधृनिक संबीवारी माहित्यात लेखिका गौरी देशपांडे यांचे योगदान मार मोठ आहे. स्त्रीवादाच्या वाटंबरून जाणाऱ्या कोणस्याही आधृनिक मराठी साहित्यांमी माणसाला गौर देशपांडे हे नाव टाळून पुढे जाता येत गारी। असंच त्यांचे लेखन कर्तृत्य आहे.

पकोणिसाख्या शतकात लिहिणे, वाचणे म्हणजे स्त्रियांच्या दृष्टीने ज्ञानाच्या, सामध्यांच्या सलेखा क्षेत्रत प्रवेश करणे होते आणि तो अडथळ्याची शर्यत होती. त्या शतकात स्त्रियांची विहिलेख्या एकुण ६ कादंबच्या आणि ३ कथासंग्रह आहळतात इतकी ही कमी सळ्या होती. प्रवीत काळात शिक्षणाच्या प्रसार, सुधारकांचे व शासनकत्यांचे प्रोत्साहन यामुळे लिहिणाच्या ख्रियांची संख्या वाहली. या बौद्धीक क्षेत्रात ज्या स्त्रियांची अवकाश प्राप्त करून पेतहा आणि अवळ दर्जीची निर्मिती केली त्यात गीरी देशपांडे यांचे नांच अग्रक्रमाने ध्यावे लागले गीरी देशपांडे खंचे नांच अग्रक्रमाने ध्यावे लागले गीरी देशपांडे खंचा कथात्मक साहित्य अगदी वरवर जरी चालले तरी संस्कृत दर्शनी चटकन लक्षात येते. गीरी देशपांडे यांची नश्रकथापूर्व कथेला छेद देउन निवन सकेतांना आव्हान दिले. तसेच रूपाच्या खंग्या वेगळे पणाबरोबरच लक्ष बेधुन घेणारा त्यांच्या कथेचा महत्वाचा घटक म्हणजे भाषेची मोडणी, मौखीक परंपरेशी नांते जोडणारी सहज अक्त्रीम भाषा हा त्यांचा कथेचा वैतन्य स्त्रीत आहे. गीरी देशपांडे यांच्या कथेची भाषा शतकभर मांगे जांकन मौखीक परंपरेशी नांते जोडणारी वात तो स्त्री सुलभ आहे. स्त्री आपसात बीलतांना त्यांत आपलेपणांचे, परगृती पणांचे, गोष्टी विकाल विशेष असलेले जे भाषेचे रूप यात होते तींथे बोलणाऱ्या च ऐकणाऱ्या व्यक्ती ममीरासमेर असल्यामुळे भाषेत जी सहजता च मीतन्यपणीता येते तो त्यांच्या कथात अवनरलेला त्यांच

भीखीक परपरेशी नाते जोडणाऱ्या भाषेतुन जो जिवनाशय त्यांच्या कथा अभिव्यक्त करतात हो मात्र पारपारीक नितीमुल्यांशी जुळणारा जुन्या स्त्रियांनी उरीपोटी पाळगळेळा असा नाही त्यांच्या क्षेत्र साकारणारं जीवन ही कोणत्याही अर्थाने जुने ताही, शहरी उच्च शिहीकांच्या जीवनानुभावे कोड त्यांच्या कथेत घडते. भीरी देशपांडे यांनी स्त्रीयांच्या कौटुविक जीवनात जे प्रथन निर्माण

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होतान आणि मानसिक आणि भावनीक पातळणांवर त्यांना जो संघर्ष करावा लागतो. मुल्यासंबद्ध पुगर्विचार करावा लागतो. त्यांचे चित्रण गौरी देशपांडे आपल्या कथात्मक साहित्यात करतात "एकेक पान गळावया" मधील सभा जुने नितीमुल्यांचे सकेत कट्व संस्थेने मुकर केलेले आईया भुमीकेतील वर्तन आणि संडखोर सुभारणांनाधानी प्रस्थापित केलेली पुनर्विवाहाची वाट हे सारव नाकारते आणि स्वतंत्रपणे एकटो सहण्याचा निर्णय घेते. अशी घीट स्वी गौरी देशागडे यान आपल्या साहित्यात रेखाटलेली आहे. तसेच 'मुक्कांम' मधील कालींदी, आपला नवरा, नंदन आपले आपले अस्तित्व लकात मेत माही. दुव्यम यागणुक देतो. हे जाणवल्यावर आणि दिमोत्रीच्या प्रेमाचा अनुभव घेतल्यावर भारतात परत येते. आणि श्रीमत नवन्याकडून कोणतीही अपेक्षा न करता मळेगावला अयंग पुनरवसन केंद्रात काम करू लागते या नाईकावरून असे लक्षात येते को आपल्या स्वयळावर जिवन अगण्याचा निर्णय घेणारी नायिका या ठिकाणी दर्शवली आहे. गीरी देशपांडेच्या कथाच्या नायोका त्या स्वतःच्या आयुष्याचे नियंत्रण स्वतः करू पाहनातः परपरित समाजाने दिखेल्या भूमीकांच्या साच्यात आपली आयुष्य वसविण्याचे नाकारून स्वतःच्या मर्जीप्रमाणे आयुष्य घारविण्याचा प्रयत्न करतात. क्ट्बाचे सामाजिक स्थान व प्रतिष्ठा वाढविण्यासाठी स्त्रीला क्टुबामध्ये समानतेची वागण्क मिळणे गरजेंचे आहे. रिवम्कती चळवळीचा लढा हा माण्सपणासाठी चाललेला आहे. यासदर्भात लिला पाटील म्हणतात 'जीवन सार्थकतेचे तिकार वायकानी बदलयला हतेत त्यासाठो त्यांनी जागे होण्याची गरज आहे. आपण आपले जीवन दसन्यासाठी जगणे, शरिर हीं जावणे, मन मारून जगणे, परंपरागत आलेल्या मुख्यांची जपवणक करणे योख्य की अयोग्य याचा विचार त्यांनी करायला हवा. आपले आयुष्य दूसऱ्या कणाच्यातरी मजीतर अवलंबन देवणे चुकीचे आहे. आपल्या समोरील प्रश्न आपणव सोडव शकतो त्यासाठी आपली निर्णय शक्ती वापरली पाहिजे." गौरी देशपांडेच्या कशास्या नारीका या मध्यवर्ती भूमीका असलेल्या खी व्यक्तीस्वातंत्र्याच्या अगीकार करणाऱ्या असल्यामुळे समाजातील आणि वाङ्मयातील खी प्रतिमापेक्षा वेगळ्या आहेत. त्या सामाजिक चालिरीतोशी फटकुन वागणाऱ्या आहेत अशा दिसूर येवात...

स्त्रिने स्वतःवर काहाँ वधने छादुन घेतली आहे. पुरुषाच्या तुलनेत स्वी एवडी यांगली असली तर्ग सर्वात जास्त मानहाणी तींचा सहन करावी लागले स्वी सध्याच्या वातावरणानध्ये असुरक्षित आहे. स्विच्या प्रश्नासदर्भात मिलम गोन्हें महणातात 'स्वियाच्या प्रश्नावर स्वियानाय सघटीत करायला हव त्यांच्या स्वतः जगण्याला आणि माह्या जगण्याला एकः माणुसपणासाठी आव्हानाची जाग निर्माण करायला हवी '' एकुण स्त्री जागुतीच्या दृष्टिने पडणारे हे पाठल अतिशय महत्वाचे आहे स्विमुक्तीची चळवळ ही समाजाच्या उद्धाराची चळवळ आहे ही चळवळ पुरुशांनी समजून चेतली पाहिजे, खियावरील बंधने दुर केले पाहिजे असे केले तर समाज व्यवस्थिमध्ये खन्या अर्थाने प्रगती होईल. या विचारप्रमाणे गीरी देशपाडे यांच्या साहित्याचे ध्वया स्वतंत्र न्हणून आपले आयुष्य आपल्याच हाती देवण्याच्या हेतूने जिवन जगतात पुरुष सत्तात व्यवस्थेचे खाव असलेले विवाह संस्था स्वभावीकपणे अडचणीची उसते. तींचा चिरेहदीपण खिळख्वीळा करून कालिटी, तमु, राधा मोकळा स्वाश घेतात एक गोष्ट आपल्या लक्षात चेतात या स्विया एकट्या सहतात, प्रदर्शकोट घेतात आणि मोकळा श्वास चेतात अशा स्वया समझ साहित्यातून गीरी देशपाडे यांनी स्वाहल्या आहेत

स्वतंत्रपणे जगणाऱ्या बुद्धीप्रमाण्यतादों, विवेकतिष्ठ, आधृनिक मुशिक्षीत स्त्रितं स्त्रण गीरी देशपांडे यांनी रेखातले आहे. त्याच्या नाईका संवेदनशील अभिरूची संपन्न आणि वृद्धिनान आहें? गीरी देशपांडे यांच्या साहित्याविषयी हो अरूणा दुभाषी म्हणतात 'स्त्रिचा स्वच्या अस्तित्वाचा शोध हे गीरी देशपांडे त्यांच्या सर्वेच कादवऱ्या भागील एक प्रमख सूत्र आहे. यात शंका वाही

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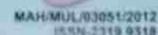
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त्तराज्ञाकन त्याच्या सर्व कादंब या स्वी कंदीत आहेत. त्यांच्या आत्मनिवेदनगर कादंब या मधील क्षांदर्क सा स्थिया आति आणि तृतीय पुरूषी निवेदन है स्वी पार्थाना प्राधान्य देउन केलेले दिसते वाजिक्य स्त्री, स्त्रिचे भावविष्य, तीत्रा आत्मशोध हा सर्व लेखनाचा गाभा आहे असे माणता ाहें स्त्री केंद्रीत साहित्य हे मराठी साहित्य परंपरेन्त्र नवे नाही परंतु गीरी देशपांडे यांच्या व्यक्तिस्थातील स्त्री ही त्यापूर्वीच्या साहित्यातील स्त्रीपेस्त बेगळी आहे. हे लक्षात पेतले पाहीने, गीरी रमुगाडे पांच्या कादंब यातील मध्यवर्ती व्यक्तोरेखा असणारी स्त्री हो प्रामुख्याने स्वकंदी, पर्यनरपेक्ष, अधितत्वाचा शोध घतांना दिसते. या व्यक्तिरेखा आपल्या अधितत्वाचा आपल्या पुरता अर्थ शोजादाचा प्रयत्न करताना दिसतात. हा आत्मशोध व्यक्त करण्यासाती गौरी देशपांडे यांनी आएट्या कादबन्यातून विशोष्ट स्थिप्रतीमा घडविलेली दिसते.'' अशा प्रकारच्या नायिका गौरी हामाडि यांनी आपल्या समग्र साहित्यातून रेखार/डेल्या दिसून येतात.

समारोप :

असा प्रकारे आपणांस २० व्या शतकातील महत्वाच्या स्त्री लेखीका म्हणून ज्यांनी मान कळवला आहे या पार्वभूमीवर गौरी देशपांडे याच्या लेखनाकडे पाहिले की, लक्षात येते गौरी देताई यांच्या साहित्याच्या मर्यादा या एक्णान मराठी साहित्य परंगरेच्या मर्यादा आहेत. वेगळी ा प्रतिमा निर्माण करण्याचा त्यानी प्रयत्न केला. या तुन त्यांचे लेखीका म्हणून असणारे भान बाबत होते. परंत् या स्त्री प्रतिमेट्य साकार करतांना त्यांनी स्विकारलेट्या रूखी तज्ञामध्ये या स्त्री प्रतिमेला मृज्ययुक्तला मात्र लाभलेलो नाही

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प्रा. नवनाथ ज्ञानोवा पवळे कॉलकादेवो कला, व्यांगाच्य व विज्ञान मार्गावकालन. शिरुर (का) वि. बोड

प्रस्तावना :-

साहित्य जावन करनामा माहित्यक हा एक समाजाधा घटका म्हणून समाजामध्ये कावस्तो समाजाबी रचना समाजातील अङ्ग्रणी, समस्या, इ.च. बेहन, स्वामाची रोणारी सर्वशेनपर लेखक आयरण उपल्या गराक्रमनी पहले व त्या मनामा बंदना इ.स. साहित्याच्या माध्यमातन मोडण्याचा प्रयत्न करतो. साहित्य लेखनासाडी पावगाडा हा खूप महत्वाचा असती पावपाड्या संबंधी यांगताम विवक मारायण अत्रे परणतात को, "धनम दाराच्या मस्त्रसंबंधाच्या परस्पर व्यवहारामा आणि बतनदाराच्या अर्थन व्यापी नाळवात गुरफटलेच्या गावच्या सामग्रंक आगर बाह्य व्यवहासामा गावको किया गामगाडा असे महणतात ।गायगाडा विवक अत्रे एष्ट क २३)' अशी गावगाडमाची व्यासम् अप्रणास सांगला येत पूर्व मायगाड्या बहान विश्वार महिलीना ज्येषक नारायण अर्थ समातात. कोणत्याती गावाला गान तरी त्यासध्ये पांडरी व समोवती करती दुष्टीस पडेन जोवच्या वरोबस्तासाठी धारावरील प्रकार नाधासभीक्षण गायकुस किया कोट फिले असून त्यातून गावात शिरणपाला एक अगर अधिक वेशी असताम पुष्कक ठिकाणी गांवकुस व वेशोंची निया न सहिम्पामुळ पडझड व मोडलीड झाली आहे त्यामुळ गालाची हवा, उनेह ही खंळनी झाली आहेत हे सार्शनीनक आरोग्याच्या दृष्टीने एकमरो वरं झालं म्हणायसे । स्पृत्य जातीचे घरे बेशीच्या आत असतात. आणि येलेल्या बनावराची विस्फाद धरणाऱ्या (शास्त्राने न मारलेल्या फणजे निसर्ग चर्माने मेनेल्या जनावराला पहें परणात, त्यांच्या मांसाला ते न खाणाऱ्या जाती. मार्था म्हणमात य ते खाणाऱ्या नाती. भाती म्हणतात ती खाणाऱ्या नातीची तसेच वनारे वहर केवाडी फासे चरणी बगेरे आरख्या पिरस्त्या व नतोन वस्तीमा आनेत्या जंगली जातीची घर पाले विना औपड्या पान गानाबाहर अस्तात, त्यातल्या त्यात फार वारक्षांच्या इतप्रदेशा गांत्रपासून नरा दूर असतान वासूत करने स्रोगलेनी दिसते इतकेच नके तर सबस्याली नम्बर जवार एक के क्षत्रं असल्याचा भास होतो. असी असीचे घरे सला असरत क खांना जातीपत्थे पाना असी, मुनार आसी, कोसवार, कार्यात विकास की अपने नामें पडलाल हर एक गायाना प्रवाद रेक क आणि बहुनेक गांवीना कावही असले लेचे नरेक अपना है। कोळो. रामोझी वर्गरे तुमानी जातीताने जीक जंगन प्रशासने हरू व प्राथ गोड्न मुखाचा आवपास भागे. तथा तहाका करेनान बोरव अभा दिश्वाणी त्यांना वस्ती मिळाली ह्या जानी सहद कान नमें नमंत्र प्रभवस्थीत कारेगी नाग मिकानी नागे सारक मामार्थको जे गोमांस खात नातीत अशा होर घोभार पंचा हवातन परे गायात शेवटी किया गायकसा मातर अगरी गायाना पटन असलात महार मांग, मेलेमी होरे (गाई महारी) फाइलान व मुक्त क्रम्ब महारकादा व महिन्दादा है गोवापासून विशेषत हर वाहरूव (मानवास:विक्रम नामायणे आने पाट क्र. १३,१४)' प्रकटोत पितन नाराको असे सूनी गांवाची रक्षमा करते असने पार्चन स्वानंत्र मायगाच्या कमा राष्ट्रपता मध्यो यांच विकास सांच उटाना माध्यमानुन मानारवाला प्रवास केला आहे. माध्या इटारक कारी का सांबोचक मादिल करोलीन गावगाराचे चित्रण करन सार्च लक्ष्मण मार्च बनाइ यांनी साहा साहित्वासध्ये पारामा हवाचे करणाह चित्रण केलले आहे. "योकल्या पहली" ही सामाजिक कारण आहे. कार्ट्यरीयको लाखकाने आवारणक तेले पावणहत्त्वते विका केले साने पूर्वी पारधी जानात हो रहनाचनामध्य शिवा हरून आपना उद्दिनमोह करत होती धर्मत कालांतराने रंगड गांगाणी मंगल तोड करणान्यावर निर्वेश पातले. रंगल राज्य कामनाडे भेपन सोड् स्थाने, बासाटी विश्होस अपनी वाले जानी माळवानावर आणतो. त्या छिकाणी हो स्वास्त मुरीकाता वटी नाही म्हणून विश्वास अगणनी बाउने गांवाच्या प्राप्तसानार वर्णनी येथे साम्यानंतर बिरहीसचा व न्यांच्या वस्तीतीन मार्च नामार्थ संबंध गाववाड्यापाशी येक लागना त्यामुळ त्यांना गावगाराम लोकप्रमाण प्रांपाय व राहणीमान हवाचे लागत गांत गावणहरू आलेच्या सबधान त्यांच्यामध्ये परिवर्तनमी तथा वर्गनी तेले 🖼 वाण्यापुरतीय प्राण्याची शिकार करायचे पण आपला उटे भागीवण्यासारी त्यापेक्षा जायत प्राण्याची जिकार करून हे अवति बानारात जावून विकृ लागली त्यातुम न पेम प्रियतील त्यारम् आपला उद्योगयोह भागव् लागेल जिलारोला गेल्यावर गर्भार अस्टेंड भाष्याची मिक्स करावयाची नाही. संपूर्ण आड बुडापासून स्टामी नाही असे पारधी समाजातील पूर्वजाचे मकेन कार्रबर्रहरू

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मेड्न कार्ड्स बाराही महिने मिळेल त्या प्राण्याची शिकार करून अव्याग्न्या गावगाड्यातील लोकांना विकृत आपली वस्ती चालवती स्वाग्न्या पास्त चात होत नहीं, पानककृत्याचे मटन

कृत्वास महस्रोग होत नाही रानङ्कर खाण्याने अरोर मजबत भींत्र वह होते. या कल्पना मावगाङ्गातील लोकांमध्ये विरडोसने क्ष काम्या गावातील जमीनदाराला खाधाची शिकार करून देणे त्वाना मामाच्या नत्व्या आण्म देणे असे काम विरटीस करत होता क्गान त्यांचा ग्रेवील गावगाङ्गाशी संबंध येव लागला (विकल्या वसमी पूछ क ३५) यरील वाक्यातन लेखकांने काणत्या प्राण्याचे म्हन कान्यनंतर कोणान रोग होन नाही यांची माहिती कादंवरीचा क्वम गोबालीक लोकांना सांगतो. गांबाच्या पाटलांना खुप करण्यासाठी बान बापाओं विकार करून देती. पारधी समाज हा जेव्हा रानावनात रास होता सेव्हा त्यांचा संबंध गावगाङ्गाशी वेल नव्हता, गावातील प्रयोग लोक गाँचा फायदा करून घेतान. पोलिस या पारध्याची वर पटन कुकट व्यावन जातात वरून हप्ताही येतला जातो. संक्षाने मांवालील संकाळची येळ कशी घाईची असते. गांवामध्ये वर्ण प्राताम क्रमा जातीवाद केला जाती यांचे चित्रण पूर्वाल सवारतम् कारः गांधामध्यं सकाळचा वळ असल्याम्ळ सर्वाची एकच घाई असते ते गाव्यामध्ये येतात तेव्हा बाजीराव दर्शम्ब उठलेले नसतात. म्हणन चळ घरून पाणी पिण्यासाठी ते स्प्रज्ञा आहा नवळ नातान चराच वेळ याला पाणी मांग तर क्यां त्याचा पाणी मान करीत होते. पण जो तो आपआपल्या पासी बिदरणा, चरव्या भक्तन चाणी नेण्यात देग होते. बिरडीस व पानकर्या जमे पाणी यागत होते तसेच पारश्यांच्या आनुवाजुला चीया, मीग ऑज महारांची माणसं आफाला थोड पाणी वाहा जी पालक लग्न वायुद्ध पासने पासरी घेवन बसलो म्हणत होते. पण लेक महार मांगाच्या व चांभाराच्या धागरीत आपल्या पोहयातील पाम भरून उरलेल पाणी त्यांच्या धागरीमध्ये टाकृन गडवडीन नियन जायमें प्रण त्यांना पाणी देत नव्हते, त्यांनी स्वतःहा पाणी गेंदण्यस बाट होतो. गांवातील लोकानी उरले सुरले पाणी दिल्यास रेंबरेंच व्यव बिरडीस म्हणाला कार्य गांवाचे नियम कडक आरेत. गुमार्वात फिराणारी कृती, मोजरी इकड्न निकडे उहवामारून आडाला विवतान जानेन पाणी पितान पाणसा सारखा पाणुसं वसून आपल्याला परकापरापासून सान्य चुळ धरण्यासाठी आणि प्यायला पाणी कृणी कन बादत नाते. या गांवातील मांग, चांचार, बांच्यापेका आपला परको बस्तो बरो असे बिरडीसला श्राटते " (बक्तिन्या पारची पृष्ट इ. ११) पावकन लेखकाला सांगायधे आहे की, गांवामध्ये असा गतीयाः पाळला नाता मुके प्राणी गुखाडीतून येवत पाणी पितात

वण माणमाला पाण्याला हात लावला वंत महो अस संवाद गावगाडपातील लंखकांनी आपल्या होळ्यासमीर उमा केला आहे तो गावगाडा ह्वेह्च आपल्या समीर उमा राहतो, पारधी समाजाचा गावगाडपाशी संबंध आल्यानंतर त्याख्यामध्ये परिवर्तन कसे हात लक्ष्मण गायकवाड यांनी गावगाडपाचे चित्रण करताना जो संवाद मांडला आहे तो प्रसंगानुरूपअसाच मांडला आहे गावगाड्याला सानेशी भाषाशैलो ही लंखकांनी वापरली आहे

वडार वेदेना या कार्रवरोमध्ये सध्या लक्ष्मण गायकवाड यांना गावगाड्याचे चित्रण केले आहे. 'सूर्व चांगलाच मावळापला चालल्यानं उन्हाचा मोर केव्हाच कमी होतन सावली आगला गोड बाटत होती. चालता चालता माळरानाबरून चार दोन आवडाव नेउळी गांव दिसत होत. गावचे सारे गुराखी आपआपली कत्प करणारी बायका परूप कोणाच्या डोक्याचर वेरणीचे भारे तर काईच्या डीक्यावर काटक्या कटक्या बांधनेले गाडोडे डोक्यावर दिसत होते काहीच्या हातात शेळ्या, गार्ड पारडे होते. हे पाइन शंकरचा जीव भांडचान पडला गंबरला बाट लागलं आबाड पडेस्तावर आपण नेक्को गाव गाउ एवतुमा लांच चलून चलून चेह-पावर आलेला शीण गावानवळ पोहचल्यावर कथीच गेलेला दिसत होता. आता चांगलाच हाकावरच्या अंतरावर नेउन्हों गांव आलेले दियत होते. गावाच्या मध्यभागी असलेला मीदराचा कळस टळ - टळ चमकताना दिसत होता नेकळोची मांजरा नदी वह वह बाहत असलेल्या तिस्या पाण्याचा मंजळ आयान कानाला ऐक येत होता. गाता जाता आपले हात पाय त्या वाहत्या नदोच्या पाण्यात धृवन पाणी पिकन सर्वच आपला चकवा घालावत होती. नदीच्या पलिकडे समद्र निक्को गाव दिसत होतं शंकर विचार करत होता आपण गांवाच्या वातेरच नदीच्या काडावर उत्तरार्व आपाल्या सांपत चार दांन जनायरं एक दांन क्यां आहेत या गावात नवीन आच्याने पा गावाची रहेन सहेन, स्वभाव, धर्म काय आहेत हे आपल्याला माहित नाही आपल्याला वधन उगीच लोक कावरे वावरे होतील कटले कोण हाकलून गावाच्या बाहर कादतील त्यापरिस आपण गावाच्या बाहर शांबाव आपत्या पायो आपल नात माई बेताल म्हणन शंकरने गावाच्या बाहर नदीच्या काटावर आपले विन्हाड गाडीतून उत्तरयुन यांबवलं (वडार चेदना पुष्ट क्र. ५) वरील प्रसंगावरून गावातील गावगाडवाची जी रचना आहे कशा स्वरूपाची असते. यांचे दर्शन पहबण्यासाठी लक्ष्मण गायकवाड यांनी हा प्रसंग शंकरच्या तांडुन सांगितलेला दिसतो. गावगाड्यामध्ये सार्यकाळ झाल्यानंतर वायका पुरुषांची घरी जाण्यासाठी कशी धावपछ असते याचे क्लिण वारकार्डने लक्ष्मण गायकवाड यानी केले आहे

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दुर्भग या कादवरीमध्ये लक्ष्मण गायकवाड यांनी किस्सारी गायातील गावगाङ्गाचे चित्रण कालील उतान्यल केलेल दिस्त येते. "सर्च गार्थोनी विक्रकंद्रभ्यराची जन्न वाटामायत करावर्च द्रश्चेते निळकंटेश्वराचं मोदर जण विमनारीच्या मध्यभागी समग्रा गावस रक्षण करण्यासाठीच आहे असे काटावं असी त्या गावाची स्वना देवळाच्या असपास लिगावताची कारणाची आणि कामृत्यच मराठ्याची वस्ती त्याचे शंकडो वर्षापासूनचे गरीचे होले गंज बाडे वाडवींडलीचा टेपा म्हणून निकन्नेटेम्बराच्या आण्यागुमा विमामात तमे टाक्नोले होते तर या सर्व चाड्याच्या पाठेमार्ग आनुवानुष्पा माळी गल्लो. मुसलमान गल्ली, धनरग गल्ली तर त्याच्या पश्लेकडे विसाठी. केकाडी, माडी लोहार, पडार, मुतार, अधी, पांचार पांची तृहक तृदक्ष धरं होती. गावाच्याएकदम पाटीमागं महारवादा, मीमका त्यांच्याते माने महार बंजारा अशा अध्यापात नातीचा नीकानी परलेल्या किल्लारी गावाचे अध्यानान मणल निरुक्त्रचा होते या निजन्नेक्रवसाच्या जनेला पराधरातुन गोहधोड नेवण करावर्च आगावचं मुसलसान सुध्या या दिवशो मागे राहत नसते ते सुध्या निजयंद्रेश्यराच्या जवसाती गाक्या नामीका काम काल मुसलमानीस्वा हामनेच्या तर निवकंतेत्वराच्या श्रावनि अंगात वापधं तर होनंच्या आणि पराच्या नावाने की क्याच्या भीमाच्या अंगान यापचे कि लारी गासातले लोक एवड गृण्यागोजिहाने नांदत होते. (दुर्मण पृष्ट क १६) किञ्चारी गावाच्या सध्यभागी निवक्टेन्यराचे मंदिर गावाचे रक्षण करण्यासाठी बांधानेले आहे. महिराच्या आसपास विमाधन वामणाची आणि बाजुलाच मराठ्याची वस्तो क्यों वस्तों अहे शंकडो नवांचे गरांचे टोलेशंग बाडे कमे उपारलोंने आहेत. बाडवाच्या बाजुला माळी गल्लो, मुसलमान पल्लो, धनगर गल्लो, बारखन्तेद्धरस्या गल्बा जन्ना वा गतीच्या बाहातचे रक्षण करण्यासती सञ्ज झालेल्या आहेत असे वाटन पाचे धारकार्यन चित्रण लक्ष्यन रागक्रवाड यांनी केले आहे गावणाड्यामध्ये आदरापणड भागी असन सम्हा ते एकमेकाशी गुण्यागीविदाने नोहतात अर्थ राण एक्टियाने

लक्ष्मण मामकवाह यांनी उठाव या कार्यसंगानी महापर गावातील गावगारपाचे चित्रण करताना त्या गावातील गावगारपाची रचना खानील उता-वाच्या माध्यमातून सांगण्याचा प्रयत्न कला उससे "नदीतुन गावाल प्रवेश केल्वानंतर वेसवगळपा आसी जमालीची घरे लागतात. त्यात सुरुवातीलाच झोपडपहोचे वर्शन होते. थाड्याच अंतरावर मांगवाडा, महारवाडा आढळतो. त्यापुढे गेल्यानंतर खुध मोठा दरवाना लागतो. आनुषानुन चिरंबंदी मिलीने बंदिस्त आलेक नाव दिसते या दारातून जाताना असे वाटते को आत हती. पोडे

नान्यसारीय स दरमाना अन्हें को कार्य गांडसे आत प्रकार करन भाग असा वर्तामारका बाह्य नगरेस पहली आजुवानुन सिन्द असी जमातीची पुज्यक पर माति त्यास तेली, सांबाबी, सांबा लियों, नार्के, कोडी, साडी, माडी या गायवा हवामधी स्वापत प्रा नाती नमानीये मोक आहमतान या लोकान प्रतिशत करू जगु एकार मंदिर आहे असे बाटते पण ते मंदिर नम्न राग्याहरू भाष्य अशी गडी ओहे. या गडीचे रक्षण करणवासाठी म्हणून्य के काम है आतुबान्ये विविध जातीचे लोक पर पापन साहत हा। बारते (उठाव पुन्द क ७)" लेखकाने महतपुर गानकी रधना सांस्त्र नरी जोलोडल्यानंतर संगठेतळ्या जानीधर्माची घर स्थानन सुरुवासीमध्य जोपहण्डीचे दर्शन कमें होते. बीहरूपम् अञ्चल म्बंग्यादा महारखादा अम्बन्धनो गावान गोल्यानंतर नागमाहो छो छन्। बाडे नमरेस प्रहतान पाध्या आनुसामना तेनी, शांबोठी, गांचा क्रिपी, नामी, कोटी, साकी, माळी अशा अनेक जातीय प्रा आहळवातः मध्यस्य मध्यसामी मानाचे नक्षण करण्यानाटे ।हिर योधने जाने आमा गायगा हुआयी रचना वार्यकरेका हो हुआया। उपा करण्याचे कहम लक्ष्मण गायकवाड यांनी समग्र कांट्यान माध्यमण्डल हत्वहून भागमाह्य आपन्यासमार उपा करन आहे समाराघ :-

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क्या प्रकार आपणास वरील स्थानवा आधार तस्ता गामकवाह यांच्या मंसार साहित्यातील कथानकाचा विचार करण देती. प्रथम आपण करदंशरी महणाने काम है समानूत फेतते और साहित्यात अध्ययस्थाला किती महत्त्व असते. हे समञ्ज पेना आहे. साहित्यामध्ये लह्मण गायकवाङ योनी पारशी प्रयान हरा समाजांच्या भटक्या विमुक्तांच्या विविध वार्याचर प्रकार यहन आहे. त्या प्रत्येक बाबीचा विचार आएए प्रस्तृत प्रकरणाली सर्विस्तर असा केला आहे. लक्ष्मण नायकवाड मांच्या साहित्य भारते विविध आरायस्य त्यत सामानिक आणि गावगाङ्ग चित्रण, राजकीय चित्रण, गुन्हेगार अमातीच चित्रण तसेच सांग्यांट य धार्मिक चित्रमा अध्यक्षेत्रे चित्रमा असा विकित असाम्बर्गा लक्ष्मण गायकवाड पाँनी अतिकाय बारकवान व प्राजतापणे त्यान आहे या साहित्य लेखनामाने लक्ष्मण गायकताड याचा मुह होते असा आहे की वा देशातील सर्व माणसे समान आहेत ता " आहेत तर मग एका बाजूला पाटाची खळगी भरण्यासाठी जगण्याची ^{जा} माध्यम समानान बंद केल्वानं भारीचा तुकडा चोरणाऱ्या भटन विमुक्त समाजाला चोर डाक् माणून पोलिस रोजचसवं वाधवाडुण संदित गुराबोरांना डांबन कोइल्या मारखे धरून मारतात प्रावी क्टेंग ह्या चीरा गन्हमाराच्या नावाखाली उध्ययम्ब झालेली प्राप्त

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ब्रह्म सत्ती उद्देश लक्ष्मण गायकचाड पांचा साहित्य लेखनामागे न्य परस्या चिम्नत जमातीला जमत असताना कोण-कोणत्या व्यापन संह प्रापे लागते किती रालअपेष्टा सोसाव्या लगतात इया समय विचार त्यांच्या माहित्यामध्ये आलेला आहे म्हणून un हणता बेईन को त्याचा उदेश साहित्य लेखणाने पूर्ण झाला हरेंब साहित्यात गावगाड्याचे चित्रण करताना गावगाड्यातील बतवरणाचे चित्र हुवहूब आपल्या डोळ्यासमार उमे केले आहे. गांव सामाजिक चित्रण करताना भटक्या विमुक्त जमातीच्या जिवन इतिवा त्यांच्या पोवाख त्यांची भाषा सहणीमान रितारियान त्याची क्षार प्रदर्श करों असते याचा समग्र विचार लक्ष्मण गायकवाड ाने केला आहे. बॉर्ट्सक चित्र साकारताना कृट्यातील जिल्हाळा को संबंधातील संबाद प्रेम, बारसाल्य कसे जोपासले जाते वाचे ही क्रम महिलामुन दिसून आले आहे. पारधी लोकांना गुन्हेगार **।** स्थापनाची समाजव्यवस्था व पोलिस यंत्रणा कशी तथावदार वारं वाचे विजय गुन्हेगार जमातीचे चित्रण मध्ये केले आहे. प्रातातिक आणि धार्मिक चित्रण करताना रूखी परंपरा अंधश्रन्थ क्क प्रस्त्या नातात शिक्षणाचा अभाव असल्यामुळे ही जमात व्यवदेश बर्ज कर्री पडले याचे ही चित्रण या प्रस्तृत प्रकरणात इतवार आने आहे. तसेच लक्ष्मण गायकचाड यांच्या साहित्य जाना पाणवा उद्देश काय आहे ? त्याचा शोध पेउन त्यांची न्यनामाची प्रमिका स्पष्ट केलेली आहे. त्यांच्या लेखनातील मिल्यापुत्रे त्यांचे साहित्व कसे बेगळे टरते याचारी विचार मन्त्र प्रमाणात सन्ताल अस्त्र करण्यात आलेला आहे.

### संदर्भ ग्रंथ :-

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## दलित नाटकाचे स्वरूप आणि वाटचाल

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#### प्रस्तावना :

दिलत वांगमयाचा उदय 1960 नंतर झालाची ह आणि बंडही दिलत चळवळीची दोन प्रमुख वैशिष्ट्ये होती. नंतर वेदना ,विद्रोह आणि नकार ही या साहित्यातील महत्त्वाची तत्त्वे होती. स्वातंत्र्य, समता ,बंधुता, विज्ञान निष्ठा न्याय आणि लोकशाही ही मुल्य दिलत साहित्याची मूलाधार आहेत. दिलत साहित्यामध्ये विविध साहित्य प्रवाहामध्ये लेखन झाले. दिलत साहित्यामध्ये कविता, आणि आत्मकथन हा वाड्मय प्रकार जास्त प्रमाणात हाताळला गेला. तितकासा कादंबरी आणि नाटक हा वाडमय प्रकार हाताळलेला आपणास दिसून येत नाही. हिंदू समाज व्यवस्थेमध्ये जातीची उतरंड आहे त्यामुळे उच्च जात व किनष्ठ जात अशी विषमता असून दिलतत्व है या विषमतेचे आपनी आहे.

दिलतांवर या विषमतावादी समानव्यवस्थेने पिढ्यान पिढ्या अन्याय केला त्याला विरोधकरण्यासाठी साहित्य हे दिलतांनी त्यांच्या विरुद्ध लढण्याचे एक हत्यार वनविले आहे. त्यामुळे दिलत लेखकाची जवाबदारी याविषमतेच्या विरुद्ध लेखन करून लढा देणे ही आहे असे हा साहित्य प्रवाह मानतो. ही जवाबदारी स्पष्ट करताना अण्णा भाऊ साठे म्हणतात आम्ही दिलत साहित्यिक आणि दिलतांना वास्तव जगण्याच्या सर्व जुलमातून मुक्त करणारे साहित्य निर्माण केले पाहिजे. असे यांनी सागितले आहे. शत्वूवर मात करण्यासाठी हत्यारा पंक्षा विचार हे फार मोठे शस्त्र आहे. ही इतिहासाची साक्ष म्हणून डॉ. बाबासाहेब आंबेडकर यांनी देखील रक्तपात विरिहत समाज परिवर्तनासाठी शब्दशस्त्राचाच वापर करून आपल्या तत्त्वज्ञानाच्या सामर्थ्याव रभारतीय समाजात परिवर्तन छडवून आणली. अण्णा भाऊ साठे यांनी त्याच शब्दसामर्थ्याची जाणीव ठेवून समाज प्रवोधनासाठी लेखन माध्यम उपयुक्त असल्याचे दिलत साहित्यकांनी सांगितले. त्याच प्रमाणे स्वतःही लेखन केले दिलत कथा लिहून त्यांनी मोलाचे योगदान दिलत साहित्याला दिलेले आहे.

### दलित साहित्यातील नाटके :

वाटा-पळवाटा दत्ता भगत, अमली ऋषिकेश सुलभ, अश्मक दत्ता भगत ,आगट अशोक बुखुरे, आग्या वेताळ जॉनी मंश्राम, उचक्का लक्ष्मण गायकवाड, कथा खैरलांजी प्रा. अनिल कुमार साळवे ,कॅम्पस वामन तावडे, कालचक्र हम चंद्रजा , काळोखा च्या गर्भात भि.शि. शिंदे, केंफियत रुस्तुम अचलखांब ,कोर्ट माशंल स्वदेश दीपक ,खेंळ्या गांडू बगीच्या नामदेव ढसाळ यांच्या किवतावर आधारित एकांकिका, गावकी आत्मचरित्र रुस्तुम अचलखांब चक्रांत,जयजय रघुवीर समर्थ ,जाता नाही जात सिद्धार्थ तांवे ,झाडा झडती शिल्पा मुंबिसकर, झुंबर विद्षक प्रभाकर दुपारे, बाबा भांड लिखित या कादंबरीवर आधारित तंट्या तनमाजोरी, तृष्णा पारफ. मु शिंदे, थांबारामराज्यवेतआहेप्रकाशित्रभुवन, देवनगरीकिरवंतप्रेमानंदगज्जी ,धादांन्तखेरलांजीप्रजापवार ,पांढराबुधवार ,पुन्हा एकदा नव्याने भगवान हिरे, पैदागीर , पोतरा जवळी अडगुळ गुणशेखरण, भाई तुम्ही कुठे आहात ,डॉ. ऋषिकेश कांबळे, महाभोज मन् भंडारी ,युग्यात्राम. भीचिटणीस ,रापी संजय जीवने, शिवाजी अंडरप्राऊंड भीमनगर मोहल्ला राज कुमार तांगडे , सुनो शोफाली कुसूम कुमार, सुबरान रामदास कांबळे, कमल अधिक तेस्मारक कुमार देशमुख ,आदी नाटकाचा दिलत साहित्यामध्ये उल्लेख असलेला आपणास दिसून येतो, सन 1982 मध्ये पहिला दिलत नाट्य महोत्सव भरवण्यात आला होता.

## दलित रंगभूमीचा उदय :

सन 1955 मध्ये मिलिंद महाविद्यालयात स्रेह संमेलनात डॉ. बाबासाहेब आंबेडकर पाहुणे म्हणूनआले होते त्यांनी तेथे विद्यार्थी व प्राध्यापकांनी सादर केलेली नाटके पाहिली सर्व साधारण विषयावर नाटके लिहिण्यापेक्षा दिलत जीवनावर नाटके लिहा असे त्यांनी सांगितले आणि तिथून दिलत रंगभूमीची मुहूर्त मेढ रोवली गेली. मिलिंद महाविद्यालयाचे प्राचार्य म. भि. चिटणीस यांनी युग यात्रा 1956 मध्ये लिहून आंबेडकरांच्या समाज प्रबोधनाला हाक किंवा प्रतिसाद दिला. 1956 मध्ये नागपूरच्या दीक्षा भूमीवर डॉ. आंबेडकर यांच्या या नाटकाचा प्रयोग झाला. त्यानंतर काही वर्षात दिलत व अन्य लेखकांनी अनेक दिलत नाटके एकांकिका लिहिल्या. दिलत याशब्दाचा अर्थ मुळी पिडलेले, नाडलेले ,तुडवलेले, शोषित ,वींचत ,उपेक्षित असा आहे. अशा समूहाचा दडपलेला आवाज या नाटकांमध्ये त्यांनी प्रकट केला आहे. ज्या जाणीवेने प्रगट होतो. ते दिलत नाटक होय.

## दलित नाटकाची वैशिष्ट्ये :

- 1)मराठी नाट्य परंपरेच्या इतिहासात दलित नाटकाचे वेगळे अस्तित्व आहे. हे मान्य करायला हवे, आजपर्यंत लिहिण्यात आलेली दलित नाटके ही समाज परिवर्तनाची आणि समाजवाधिलकीचे केंद्रविंद् आहेत. म्हणजेच सामाजिकतेला व परिवर्तनाला सामोरे जाणारे विचार प्रवाह दलित नाटकाला मंजूर आहेत.
- यादेशातील समाज व्यवस्थेला एक जबरदस्त हादरा देणारे धारदार हत्यार म्हणून दिलत नाटकाचे एक वेगळे अस्तित्व आहे. दुसरी गोष्ट म्हणजे नाट्य परंपरेतील नाटकीपणा दिलत नाटकाला मान्य नाही.

- प्रस्थापित वर्गाकड्न दलितांवर होणाऱ्या अन्याय अत्याचाराला वाचा फोडण्याचे कार्य दलित नाटकांनी केले आहं.
- 4)आपल्या वेदना दलित नाटकांनी नाटक व एकांकि कातृत मांडल्या. दलित इतर दलित साहित्य प्रमाणे वेदना विद्रोह नकार ही दलित नाटकाची वैशिष्ट्ये आहेत.
- दलित नाटक सामाजिक दुःखातून जन्माला येते. दलित नाटकातून येणारा इतिहास हा केवळ एक इतिहास म्हणून येत नाही तर मानवी संस्कृती म्हणून येतो.
- 6)दलित नाटक हे इतिहासाचे गोडवे गात नाही तर इतिहासाचे विश्लेषण करून भविष्याचा वेध घेते. मानवते विषयी माणुसकी विषयी दलित नाटक आग्रही आहे.
- दलित नाटक हे बैचारिक बाँधिलकी मानणारे अखिल मानव कल्याणासाठी सिद्ध झालेले व हया जगात जे सर्वोत्तम असे मृल्य माणुस त्याच्या रक्षणासाठी सिद्ध झालेले आहे.

### दलित नाटकाचे स्वरूप आणि वाटचाल :

मानवी मन निर्भय करणारे रोख ठोक पणाची भाषा बोलणारें, प्रस्थापितां विरुद्ध उधडपणे संघर्ष करणारे हे दिलत नाटक मनोरंजन पक्षा प्रबोधनाची कास पत्करते. विद्रोही जाणिवांचा पेटता अविष्कार म्हणजे दिलत नाटक. वेदनांचा हुंकार म्हणजे दिलत नाटक काही नव्या विरोधी आणि विद्रोही जाणिवा पोटात घेऊन दिलत रंगभूमीने आपल्या प्रवासाला सुरुवात केली. या अनुभवांना जीवनाला दिलत नाटकांनी आकार दिला. ते अनुभव विदारक रीतीने आपल्या उधड्यानागड्या स्वरूपात समोर आले. त्यामुळेच दिलत विषयावरील ही नाटके लक्ष वेधी वरतात. महत्त्वाची वरतात तर कधींकधी प्रस्थापितांच्या जाणिवेला चमत्कारिक ऑगळ, प्रक्षोभक व अस्वस्थ अशा स्वरूपाची वाटतात. उदा. तनमा जोरी व देवनवरी या नाटकाचा शेवट इत्यादी तेव्हा ह्या दिलत नाटकात नाटकारांनी आपले विशिष्ट अनुभव मांडले आहेत. त्याचे वेगळेपण लक्षात घेण्यासारखे आहे. गेल्या दोन दशका पूर्वी (केव्हा पासून मोजायची?) मराठीत दिलत विषयावरील व दिलत जाणिवा विषयोच्या नाटकांना बहर आला.

दलित लेखकांनी दिलत नाटक व रंगभूमी दिलत चळवळीचे एक साधन बनिवले आहे. यावर्गाच्या वाट्याला आलेले दैन्य व अप्रीतष्ठाही माणसाला किती खालच्या पातळीवर नेते याचे भीषणकरणारे दर्शन यानाटकात घडते. उदा. तनमाजोरीतील वेठिबगारी, खेळी यातील नारायणचा खून इत्यादी तरी देखील दिलत समाजाला हळूहळू प्रबोधनाची चाहुल लागल्याने या दिलत रंगभूमीच्या माध्यमातून दिलतांच्या जीवनातच नव्हेतर सबंध समाजात होत असलेल्या परिवर्तनाची कल्पना येऊ शकते. (उदा. युग यात्रा व कैफियत नाटक) दिलत नाटक हे केवळ आंबेडकरी विचारांच्या प्रचारासाठी जन्मले नसून त्याविचारांच्या साक्षात्कारासाठी जन्मले आहे. दिलत रंगभूमी आणि चळवळीतील हा जिवंतपणा आंबेडकरी विचारांच्या चळवळीमूळे आणि चळवळीतून जन्माला

आला आहे. यालढ्याने सांस्कृतिक क्रांतीला जन्म दिला तेव्हा यादीलत नाटकाचा निर्मितीचीमुळ प्रेरणा म्हणजे आत्मशोध होय. स्वत्वाचा शोधा विषयीचे प्रश्न दिलतांच्या जीवनात निर्माण झाले. जगण्याच्या दणकट निर्द्दीमुळे सोसाव्या लागणाऱ्या यातनां मधून जन्मलेले हे प्रश्न आहेत म्हणून दिलत रंगभूमीवरील चळवळीच्या नाटकांमध्ये अनुभवाचा जिवंतपणा असलेला आपल्याला दिसतो. या दिलत नाटकाचे दुसरे वैशिष्ट्य म्हणजे त्यात आढळून येणारा सामाजिक संदर्भ होय. आंबेडकरी विचार आत्मसात केल्यामुळे प्राप्त होणाऱ्या जीवन विषयक दृष्टीकोनाच्या आधारे स्वतःला आणि स्वतःभोवतीच या वास्तवाला जाणून घेण्याच्या उत्कट इच्छाशकीचा शब्दरूप अविष्कार म्हणजे दिलत नाटक असे प्राध्यापक दत्ता भगत यांनी एके ठिकाणी म्हटले आहे.

आंबेडकरी तत्त्वज्ञानाची शक्ती येउन कोणत्याही संघर्षात सिद्ध झालेले आंबेडकरी चळवळही दिलत नाट्यचळवळीची प्रेरक शक्ती आहे. दिलत शोषितांच्या अस्मिता जागृत केली म्हणून आंबेडकरी चळवळीशी दिलत रंगभूमीचे नाते आहे ते विसरता येत नाही असे डॉ. भालचंद्र फडके यांचे मत आहे. ते योग्यच म्हटले पाहिजे मराठी नाटकांच्या इतिहासातील हा दिलत नाटकांच्या प्रवाह अविभाज्य भाग आहे हा दिलत नाट्य चळवळीचा नवोन्मेष प्रवाह म्हणजे नाविण्याचा, नव समाज जाणिवांचा एक नवा आकृति बंधे आहे असे म्हटल्यास ते वावगे होणार नाही. मानवी जीवन विषयक मुल्यपरिवर्तनशील समतेचा प्रवाह बलदंड करणारी अशीही नाटके आहेत. उदा. न्याय, मन्वंतर इत्यादी तसेच मध्यम वर्गीय जाणिवांवर आधात उदा. आम्ही देशाचे मारेकरी याचवरोवर अंधश्रद्धा विरोधी जागृती थांबा रामराज्य वेतंय ,पोतराज, देवनवरी इत्यादी. परिवर्तनाचा विचार देणाऱ्या नाट्य कृती भिक्षुणी वासव दत्ता, न्यायमुख्य म्हणजे बुद्धधम्मातील सिद्धम्माचा विचारही काही दिलत नाट्य कृतीत आढळती. विषम समाजरचनेचा व अर्थव्यवस्थेचा धिकार आदर्श मानवी जीवनाचा स्वीकार ही दिलत नाटकाची प्रयोजने आहेत. तेव्हा दिलत नाटक ही सामाजिक व सांस्कृतिक चळवळ आहे. निव्वळ मनोरंजन हा उद्देश तिच्या पाठी मागे नाही. येथील रुढी परंपरेने जाती धर्माने एका विशिष्ट समाजाने माणूसकीचे अधिकार नाकारणं त्यावरुद्ध विदाह करण्याची दिलत रंग भूमीची भूमिका आहे. शिवाय दिलत रंगभूमीने ही प्रस्थापित परंपरा ही नाकारली आहे.

दलित नाटकाचा सबंध वर्तमानाशी आहे. कारण दलित नाटक हे दिलतांच्या वर्तमान चळवळीतून जन्माला येत आहे. चळवळ जन्म दात्री असल्यामुळे येथे हाडाचा जिवंत आहेत साहा जिवंतपणा येथील मातीतून उगवला आहे. त्यामुळे या नाटकात तंत्राची ही मोडतीड केलेली आहळते. (उदा.थांबा राम राज्य येतंय ) दिलत नाटकात मूळ संकेताचे मंजन केलेले आहळते. दुःख टोकदार करण्यातून कधी वक्तृत्वाचा तर कधी आवेशाचा आधार घेतलेला आहळतो. (उदा. काळोखाच्या गर्भातील सूत्रधाराच्या सुरुवातीचा व शेवटचा भाग) दुःखाची उत्कटना व्यक्त करण्यासाठी दिलत नाटक कधी कवितेकडे सरकते उदा. साक्षी पुरम, न्याय,युगयात्रा ,केफियत मधील काळ्यपंक्ती इत्या. अशा तन्हेने दिलत रंगभूमीवर सादर होणाऱ्या नाट्यकृतीना एक दिशा आहे. स्वतःची गती आहे एक इतिहास आहे स्वतःचे असे एक तत्वज्ञान आहे भारतीय समाज हा विषमतेवर आधारित असल्यामुळे

माणूस माणसापासून अलग झाला वेगळा झाला. आता तसे न होता समान मानवी मूल्यांची समाज मंदिरात प्रतिष्ठापना करण्याचे ध्येय बाळगणारे दलित नाटक आज आपल्या समोर उमे आहे.

दलित नाटकांचे विषय दलितांवरील अत्याचार त्याची उपेक्षा त्याची त्याच्या नीवनातील दुःख आणि सर्वप्रकारच्या अन्याया विरुद्ध बंड असे असावेत हे स्पष्टच आहे. परंतु दलित नाटके म्हणने केवळ एवहेच नव्हे त्या सर्व दलित नाटकातून धर्मशास्त्रातून निर्माण झालेली अंधश्रद्धा, देववाद ,जाित वाद यावर कठोर आणि मर्म प्राही आधात आहे. शिवाय या दलित नाटकात विद्रोह व बंडखोरीचे लक्षण असून दुःख आणि आक्रोशही त्याच्या जोडीला जाणवतो. परंतु ही नाटके निराश आणि कवेफल्यप्रस्त नाहीत हे लक्षात घेणे आवश्यक आहे. यादिलत रंगभूमीवरील नाटकाचे आणखी वैशिष्ट्य सांगताना ते केवळ दिलतांच्या दुःखा पुरते मर्यादित नाही तर मजुरांची होणारी पिळवणूक तनमानोरी, आणि साऱ्या जगात जगभराच्या मानवी अन्यायविरुद्ध दंड थोपटून उमे राहण्याची क्षमता व निर्धार या नाटकाच्या शब्दाशब्दांतुन व्यक्त होतो. या दिलत रंगभूमीवरील नाटकात अस्पृश्यांच्या वाट्याला आलेले हिणकस जीवन दारिद्र्य, उपासमार पोटासाठी चाललेली धडपड अस्पृश्यतेमुळे समाज जीवनात होणारी उपेक्षा दिलतावर सुवर्णाकडून होणारे अत्याच्या ,अंधश्रद्धा ,गैरसमजुती याचे प्रामुख्याने चित्रण आलेले आहे. तसेच दिलतेतर समाजावद्दल आणि त्यांच्या सर्वकष परंपरेवद्दल दिलतांना आलेली चीड ही समजून घेता येते.

दिलत रंगभूमी आणि चळवळीचे नाटककार सामाजिक बाधिलकी मानणार आहेत या बाधिलकीमुळेच समाज व्यवस्थेने निर्माण केलेल्या विषमतेची व अन्यायाची चित्रे चळवळीच्या नाटकातून रंखाटण्यात आलेली दिसतात. या जाणिवेने निर्माण होणारे ताण-तणाव त्यांनी बारकाईने चित्रित केलेले आहेत. आजच्या दिलत रंगभूमीवरील नाटकाचे स्वरूप प्राधान्याने प्रतिक्रियात्मक, निषंधानात्मक आणि नकार प्रचुर असे आहे. त्यात बंडखोरी ,संतप्तता , आक्रमकता, त्वेष पूर्णता, झालेल्या अन्यायाचा दंश, सरळ सरळ आणि उघड स्वरूपात बहुतांशी प्रकट झाल्याचे दिसून येते. जळजळीत बेदना भोगणारा दिलत माणूस या दिलत नाटकात प्रथम भेटतो देव, देववाद ,अंधश्रद्धा ,कर्मकांड , पुराणमतवाद, किंवा पारंपारिक संकल्पना नाकारणे तसेच बद्धविचारातून आलेला अनिश्चिक्रवाद, तकेबाद, बुद्धिप्रामाण्यवाद, निर्ता वाद स्विकारणे हेच दिलत जाणिवेचे नाटक होय.

#### समारोप :

सामाजिक क्रांतीचे एक साधन म्हणून दलित नाट्य चळवळीचा विचार होत असला तरी या विषयाच्या अनुषंगाने कलात्मक तेचाही विचार होणे आवश्यक आहे. दलित रंगभूमीवरील नाटके ही प्राचारी असल्यास हरकत नाही. पण प्रचारालाही कलात्मक तेचे भान असणे आवश्यक आहे. आक्रस्ताळी लेखनातून काहीच साध्य होत नाही हे लक्षात घेऊन दिलतांना सोसाव्या लागणाऱ्या दुःखाचे, व्यथाचे दर्शन या नाटक काराने जरूर दाखवावे पण त्याचे प्रदर्शन करण्याची वृत्ती असू नये हे महत्वाचे आहे. या सगळ्या दिलत नाटकात आता एक प्रकारचा एक सुरीपणा जाणवु लागला आहे. त्याच एक आवर्त निर्माण झाले आहे. त्या दिलत नाटकाच्या मुळाशी जी बंडखोर

वृत्ती आहे त्याचा परिपोध करण्याऐवजी आपले नाटक हे एका मोठ्या व्यापक चळवळीचे शक्तिस्थान आहे याचे या दिलत नाटककारांनी अजिबात भान विसरता कामा नये. या सर्व दिलत नाटकामध्ये नाट्य प्रयोगाचे सर्व गुण ओतपोत भरलेले आहेत. त्यातील आशय व्यापक आणि सखोल आहे. अभिव्यक्ती चैतन्यपूर्ण आणि नाविन्यपूर्ण आहे. आणि तांत्रिक दृष्ट्या ही ते अधिक योग्य आहेत. मात्र या सर्व नाटकामध्ये अनुभवाची खोली वाढवणे आणि मानवी समाजातील गुंतागुंतीचे योग्य दर्शन घडविणे आवश्यक आहे. दिलतांना येणारे विदारक अनुभव एका नाट्यात खच्चून भरण्यापेक्षा एका-एका अन्यायाच्या उपेक्षेच्या घटना-घडामोडी या भोवती कथा सूत्र गुंफून त्यातून मानवी मनाच्या स्वभावाच्या क्रिया-प्रतिक्रिया आधात प्रत्याघात याचे कोशल्यपूर्ण कलापूर्ण चित्रण प्रस्थापित करण्याचा प्रयत्न होणे या गोष्टीकडे दुर्लक्ष करून चालणार नाही.

### संदर्भग्रंथ :

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- 2) दलित रंग भूमी, भालचंद्र फडके
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- 7) दलित साहित्याची चिकित्सा, डॉ. स.दाकराडे

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उपनिका विकासकार्यार महत्त्वात्व के इन स्वरूपी का अवाद प्रवास में महिता तीते के बकता पूर्व सक्ताप्रकार 1/2 विकास की भी पत्था जाना आहिए I

कात एवं सन्दर्भ :

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आवादीकर आहे. स्थावे करण कारवापुर विकासकर सामग्री वेदाची सुक्ताल एकपती शाह महरणकारी १.गू.२ मध्ये सहकारी कार्यदा संतुर १% गुले १.गू.२ के संस्थानात एत्यू केटल सामग्री करण सामग्री सामग्री प्रकार रोक्तर सहकार्य प्रमाणके तथा "अपेक महावादी प्रकार रोक्तर सहकार्य प्रमाणक विकास प्राचन सामग्री कारवादि, राज्याची दुवतरोती कार्या राज्यका याप देखीपून ३० संस्थार १.९१३ मध्ये "संस्थापुर अपेन बी-ओमोटीका सोमायती सर्वादिक" हा प्राइत्तर सोमायदी स्थापन झालते. तींच वर आधारिका सामग्री स्थापन झालते. तींच वर आधारिका

### अप्रमाद विश्वयक विचार :

असेरोमीक सेवरील गरमणा व प्राप्त-टार गर्भमावायत स्वयंतीरात् सरामानां ने वर्गस्त्या प्राण्यम्पर मत्यंत्रांत बेल्यां विद्युत येते पुरेष्ण्यो शीमोत्रीक करतीनांत्र औरमेर्गांत क्षेत्रा ताम करणात स्वतंत्र प्रमाण्य वर्ग अस्त्राम आता तेते प्रशासामां स्वतंत्र प्रमाण्य वर्ग अस्त्राम आता तेते प्रशासामां स्वतंत्र प्रमाण्य वर्गांत वर्गांत तेते ताम वर्ग वर्गस्ता राष्ट्रीत रामगीला बर्जांत सरीक ताम वर्ग वर्गस्ता व प्रशास अस्त्रामां वर्गमा वर्ग प्रमाणां सर्वा स्वतंत्रीय तेती या विश्वमा वर्गम्य विकास भारती प्रशास सर्वात्रा प्रमाणांत्री तेती व्यवसामांत्री वर्गांत्रा स्वस्त्र सरवात्रा प्रमाणांत्री तेती व्यवसामांत्री वर्गांत्रा स्वस्त्र सरवात्रा प्रमाणांत्री तेती व्यवसामांत्री वर्गांत्रा स्वस्त्र सरवात्रा प्रमाणांत्री तेती वर्गांत्रामांत्री वर्गांत्रा

अवस्था सामू महायस हे पुरीपन्या होत्याना अवस्था सेवील कामणाया विवरी गांगी प्रत्या पाहिलेको होता भारतीय प्रमानामी पुरीपानीक बरमगाहरूपाने संगटन स्थापन बरूप मालवांच्या विदेश एन तथा दिल्लाविकाय त्याचे न्याच हरूब त्यांचा विकास नाईत असे महायाच्या प्रत्या असे त्यांची पुराहेगा कामणाह्या समेत दोत पाणी हितेकी आहेत. उपाहन बरमगुणीवाची बारणारी सजावाद त्यांचा पीते. म पूर्वपात अभावाचन एक्का न्याव इक्का वाल जात विते वरिवारत लेकिनमा नेतृत्वाचाची कर्मावर्टी प्रश्नी प्रस्मुन आगानेची लेकी इक्काइरको के क्यांगान अमाने सरकार न आह्वकाहर कर्मागाना अनेच दक्काडी देण्याचा तथार हाल्डे होते या प्रश्नीकृतीचा लाइ महाराजांची काक्याद्वा प्रमार्थित माला प्रस्तुन प्रकाडके होते

व्हानी साह सहाराजामा आर्थन हिन्दाची वहान समाजना सेवटच्या स्वानीत हुनेन जनाती एन रोज, व्यावकी साम्रीतक सामानानी स्वानने व्यावीतक प्रत्याम सान्य करते हा स्वान्या दिखाला रत् स्वार होते सम्बन्धी साईतिक प्रमति प्रतन्ते गोपण पूरत समाज स्वपती साह नदास्त्रांन विक्ता प्राप्ता केन स्वानी स्वानी केवन स्वाना को क्या प्राप्ता प्रत्य स्वानी स्वानी केवन स्वाना को क्या प्राप्ता प्रत्या स्वानी स्वानी क्यावा को क्या प्राप्ता प्रत्या स्वानी स्वानी क्यावा को क्या प्राप्ता प्रत्या स्वानी स्वानी क्यावा को स्वानी प्राप्ता क्यावी स्वानी केवन स्वानी साह प्रतानको प्राप्ता क्यावी स्वानीत स्वानी केवन स्वानी साह प्रतानको प्राप्ता क्यावी स्वानीत स्वानी केवन स्वानीत स्वानीत स्वानीत

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हाँ. मुळे ची ग्रम. अर्थशास्त्र विज्ञाम

कारिकारेवी कला, बाणिक्य व विज्ञान मताविधालय, शिस्स (का) कि बीड

प्रस्तावना :

栖

भारत हा कृषी प्रधान देश फणून ओळखटा जातो. शेती वा भारतीय अर्थव्यवस्थाना क्रमा समजाला जातो. देशाच्या एक्ण लोकसंख्येपैकी जवळ पास ५८ टवके पेका जास्त लोकसंख्या शेतीवर अवलंबून असल्याचे दिसून येते. भारताचे एकूण भौगीलीक क्षेत्रफळ ३२,८७२६३ चौ कि.मी. आहे. बनाखालील क्षेत्रफळ ७१,८००० ची.कि.मी. आहे. जवळपास २२ टक्के क्षेत्र बनाखाली असल्याचे दिसून येते. भारताच्या आर्थिक नियोजनांच्या सुरुवातीस एकूण अन्सान्य उत्पादन ५०८ त्याख टन होते त्यात बाढ घेळत २०१५-१६ मध्ये २५१५ लाख टन इतके आले यातील वाद ५ पटीने गालेली दिसून मेते परंतु लोकसंख्येमच्ये मात्र जवळपास ९० कोटीची बाद झालेली आहे

भारतीय अर्थव्यवस्थेत शंतीचे योगदान हे महत्वपूर्ण आहे. देशाच्या राष्ट्रीय उत्पान्नात शेतीचा बाटा महत्त्वामा आहे. तसेच या देशातील वादीव लोकसंख्येला रोजगार देण्यात शेती महत्त्वाची भूमिका बजावत असल्याचे स्पष्ट होते. तसेच शेतीच्या माध्यमातून अन्तचान्य उपलब्ध उद्योगाना कच्चा माल परकीय चलन प्राप्तो इत्यादी मावतीत शेतीचे योगदान महत्त्वाचे आहे. आर्थिक नियोजन काळापासून आजपर्यंतचा मागोवा घेतल्यास शांती होत्रास मोठ्या प्रमाणात बदल झालेले दिसून येतात. लागवढीखालील धेत्रफळात अन्नधान्ये आणि विगर अनाधान्य उत्पादनात आणि उत्पादकरेत हरितकांतीनंतर आमुलाग्र असे बदल झालेले दिसून येसात. एकंदरीत नियोजन काळापासून शेतीच्या विकासाचा आलेख वाढन असल्याचे दिस्त येते.

संशोधनाची उदिष्टधे :

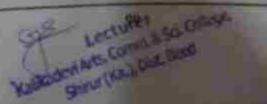
- भारताच्या नियोजन कालखंडातील शेती क्षेत्रावरील खर्चांचा आढावा घेणे.
- २) चारतातील प्रमुख पिकांच्या उत्पादन प्रवृत्तीचा अभ्यास करणे.
- भारतातील पिमालांच्या निर्यातीचा अध्यास करणे.

संशोधन पदासी :

वरील शोध निवधाचा अध्यास करत असताना दुव्यम साधन सामुग्रीचा वापर केला असून स्थामध्ये प्रामुख्याने भारताची आर्थिक पाहणी, इंटरनेट, वर्तनान पत्रे संदर्भ प्रथ, योजना मासिक इत्यादीया वापर केला आहे.

नियोजनांच्या कालखंडातील शेती क्षेत्रावर केलेला खर्च :

१९५०-५१ प्रासून आर्थिक नियोजनाला मुख्यात झाली पंचवार्षिक योजनेच्या



माध्यमातून देशाचा आर्थिक विकास पहतून आभाण्याचा विशेष आरखाडा तथार केला जात होता. प्रत्येक पंचयात्रीक योजनेमध्ये शेली आणा शेली संबर्धात क्षेत्रचा विकास पहतून आणाण्यासाठी विशेष तरतृद केली जात होती पहिल्या पंचयार्थिक योजनेत शेली क्षेत्रका अप्रक्रम देण्यात आला. या योजनेतील एकूण संवर्धिकी ३१ उसके खर्च शेली क्षेत्रावर खर्च वारण्यात आला. प्रत्येक पंचयार्थिक योजनेतील एकूण संवर्धिकी ३१ उसके खर्च शेली क्षेत्रावर खर्च वारण्यात आला. प्रत्येक पंचयार्थिक योजनेताले शेली क्षेत्रावर केलेला खर्च साम्बील तक्त्यामध्ये आहे.

भारताच्या नियोजन काळातील शेती क्षेत्रातील खर्च (कोटी रूपयात)

पंचवार्षक योजनेचा काळावधी	एक्ष्म योजना स्वर्ग	शेती केशवरील स्वर्च	एकूण खर्च छ। शेती क्षेत्रासाठी प्रमाण
₹948-4€	22E0	E00	76
			२१
	5,00,00		50
\$959-68	250088	35,60	3.4
2508-05		5080	33
3360 - 64		25200	5.8
8984-80	288/388	80500	9.9
(992-95)	8,9,8,5,5,5	848486	38
5660-5005	285080	856600	38
2002-2000	6265820	304044	2.5
5000-5085	35,888.65	1063860	35
5055-5059	98 E 0 C C C		
	योजनेचा कारवायधी १९५१-५६ १९५६-६१ १९५६-६६ १९६९-७४ १९७४-७९ १९८० - ८५ १९८५-९० १९९५-२०७ २९९७-२००७	मोजनेबा स्कृष योजमा सार्थ सार्य सार्थ सार्य सार्थ सार्य सार्य सार्थ सार्य सार	मोजनेचा सर्व सर्व स्वर्ध स्वर्य स्वर्ध स्वर्ध स्वर्ध स्वर्ध स्वर्ध स्वर्ध स्वर्य स्वर

संदर्भ : भारताची आर्थिक पाहणी २०१६-१७.

नियोजन काळात शेती धेत्रावर जो खर्च करण्यात आलेला आहे. तो सुरूवातिच्या कालखंडात जास्त असलेला दिसून येतो. परंतू नंतरच्या काळात शेतीवरील खर्चात घट आलेली आहे.

## भारतातील प्रमुख पिकांचे उत्पादन :

भारतामध्ये प्रामुख्याने नियोजनाच्या काळापासून ते आजतागायत अनेक पिकांचे उत्पादन घेतले गेले. परंतु त्यामध्ये प्रामुख्याने गह्, तांदूळ, ज्वारी, हरभरा, मक्का, बाजरी, तूर, कडघान्य, तेलबिया याचे उत्पादन करत असतांना काही पिकांच्या उत्पादनात वाढ झाली परंतू काही पिकांच्या वाबतीत म्हणावी तेवढी बाढ झालेली नाही ते आपणाला खालांल तक्त्यावरून लक्षात येते.

	Other Designation of the Contract of the Contr				
भारतातील	प्रमुख	पिकांचे	उल्पादन	: (छाछा	रनामध्ये)

प्रमुख विक	१९५०-५१	3084-128
क्षिण अन्तवान्य	406	2010
ILE.	EX	9.73
तांदूररु	504	10.8.8
ज्यारी	६३	-85
मुसका	5.8	358
बाजरी	5/9	68
कडधान्य (सर्व)	2.5	622
थरारा	2/0	838
	490	3.82.8
<b>उ</b> स		86
亞	168	543

भारतातील प्रमुख पिकांच्या उत्पादनांचा अध्यास करत असताना वरील तक्त्यावरून असे लक्षात येते की, नियोजनांच्या सुरुवातीच्या काळात उत्पादन कामी प्रमाणात असलेले असे लक्षात येते की, नियोजनांचा यापर करून देखील सर्व पिकांच्या बाबतीत उत्पादक्तेत बाह न दिसून येते परंतु नियोजनांचा वापर करून देखील सर्व पिकांच्या बाबतीत उत्पादक्तेत बाह न होता काही उपाविक पिकांच्या उत्पादनात बाह झालेली दिसून येते प्रामुख्याने गहू, तांदूळ, होता काही उपाविक पिकांच्या उत्पादकेत बाह झाली, परंतू तेलिबया, कडधान्य (सर्व) या बटाटा, उस, मक्का या पिकांच्या उत्पादकेत बाह झाली, परंतू तेलिबया, कडधान्य (सर्व) या वटाटा, उस, मक्का या पिकांच्या उत्पादकेत बाह झाली परंगाम झालेला नाही म्हणाजेच पिकांच्या उत्पादकतेत हरित क्रांतीचा देखील म्हणाचा तेवहा परिणाम झालेला नाही म्हणाजेच

यांची उत्पादकता कमी असलेली दिसून यत. भारतातील काही कृषी पिकांचा जागतिक निर्यातीमधील वाटा : (टक्केवारी मध्ये)

काहा क्षा । असरा ना			2001
वस्तू	१९९०	5080	२०१५
	8.8	88.3	26.00
तांदूळ अन्नधान्य निर्मित खादय	0,5	₹.₹	E.2
वस्तू भाजीपाला व फळे	0.6	€.9	8.8
	22.8	80.00	6.6
मसाले .	19:19	84.8	80.3

संदर्भ : India Economic Survey 2016-17.

भारताने सन १९९१-९२ मध्ये जागतिकरणाचा अभिकार करून खुल्या अर्थव्यवस्थेषडे वाटचाल सुरू केली. मात्र जागतिक बाजारपेठेत भारतीय कृषीमालाचा निर्धातीतील वाटा हा कमी असलेला दिसून येतो. १९९० मध्ये तांदळाच्या निर्यातीतील वाटा ११ ३ टकके इतका होता. त्यात बाढ होऊन २८.०० टक्के इतका झाला. मसाले आणि वहा यांची निर्यात १९९० मध्ये अनुक्रमें ७.७ टक्के, २२.१ टक्के होती परंतू २०१५ मध्ये अनुक्रमे १७.३ टक्को, ८.४ टक्को असलेली दिसून येते. म्हणजेच चहाच्या निर्यातीमध्ये घट व मसालेच्या नियातीमध्ये वाढ झालेली वरील तक्त्यावरून सम्पट होते.

भारत हा देश कृषिप्रधान देश म्हणून ओळखला जातो. कृषि माळाच्या उत्पादन आणि उत्पादक्तेत मोठ्या प्रमाणात वाह झाली मात्र जागतिक पातळीवर कृषि मालाची निर्यात ही अत्यंत कमी असलेली दिस्न येते.

- संदर्भ सची :
- भारतीय अर्थव्यवस्था (समस्या आणि भवितत्व) डॉ. एस.के.ढंगे २०१३.
- कृषी अर्थशास्त्र प्रा.डॉ. दत्तात्रय भुतेकर २०१५. 2)
- भारतीय अर्थव्यवस्था रुद्र दत्त आणि संदरम.
- 8) India Economic Survey 2016-17.
- कृषी अर्थशास्त्र विजय कविमंडल.
- ६) भारतीय अर्थव्यवस्था एस.के मिश्रा.

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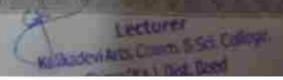
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37	मुरादी गाहित्यातील स्वीचित्रण - एक अस्वास प्रां, डॉ. रामहारी पा	वकर	3.4
38	स्त्रीपारी माहित्य मुकाटे श्रीधर सुर	गकर	1
39	मराठी स्वीवादी साहित्व प्राप्त प्राप्त स्वीवादी साहित्व		1
40	भारतीय स्त्री आणि मान्यअधिकार Putton Asad Abe	to the same	1

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## मराठपाङ्चातील स्थी चळावळीचा चिकित्सक अभ्यास डॉ. मुळे पी एम

अर्थशास्त्र विभाग प्रमुख कालिकादेवी कला, वाणिक्य व विभाग महाविद्यालय शिक्त (का) जि बीड

#### प्रस्तावना

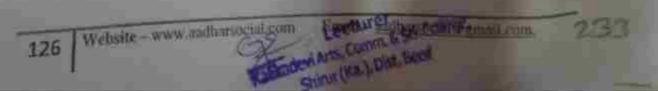
भारतीय समाजव्यवस्था ही विषमभाषिक्षित समाजव्यवस्था आहे यसकील महत्वपूर्ण विषमता म्हणाने स्था व पुरूष यांच्यामध्ये असाठेली हिसले. प्राचीन व्यक्ती भारतामध्ये मातूमतामाह व विवृत्तराता आगा क्षेत्री पद्धारीने भारतीय समाज विभवत असान्याचे दिसते. कालांतराने जिलिसी प्रक्रिमेतील पुरावाचे स्तान स्थार झाल्यानतर स्तांचे स्थातन्य कमी होताः पुराव प्रधान संस्कृती अमिनमास सुर वात वाली व सिक्सना दुवाम दव्यो प्राप्त वाला समात त्यवस्थेनी विभागणी माली व्यवस्थेत जाला। यार समकाठीन जातीच्या विविध विषयाचा चाट्योरती स्टोपरंपराचा परिणाम स्वी म्मावर शीन स्वपाविक आहे

- उदेश: १) भारताताल की चंद्रतत्वीमा अन्यास मरणे
  - मत्तववाङ्गातील क्षी पळवली वर प्रकृत संवाणे
  - मसंख्वाद्यातील स्वायर होणाऱ्या अल्पातातीम अध्याम प्राणी.

प्रस्तृत सोपानकपासाठी प्राथमिक क दिसीय साधन सामुग्रीचा जापर केटन असून न्यामध्ये प्रामुख्याने व्यक्तिके साहित्याचि माहिती, हारसेट, शीवनिका वर्तम्वपने हत्याचीचा वापा केला

भारतातीरू स्त्री चळवळीची पारचेंभूमी

भारतामको लाही साल पानुसस्थाक प्रमुख रूड होती सिम् पासून गाईल प्रयोगय हा प्रदेश क्रमाळी मानुसत्ताण समागळावस्थेलाली होता हा मार्गळच्या संगोधनाचा विकास वजळजवाते सर्वमान्य आला आहे. मानवांच्या संस्कृतीचा एका रामा जेता की निर्मती प्रक्रियेतीक पुरुषाचे स्थान स्पष्ट झाले व मुरुपप्रधान संस्कृती तथार बाली मध्ययुगीन स्वियांची स्विती हो काहीशी रिश्यांच्या अवितिष्याचं श्वरूपात शहिली आपुरिक काळातील नवविचारसरणीच्या नाजाची संकल्पना पूर्व आली. पारतीय समाजव्यवस्थिमध्ये रिवयांना अनेक समस्यांनी असले होते. बालविवाह, करक्षमारी विवाह, सतीची चाल, केरोपन, विधवानी रिवती संस्कृतीच्या तावास्त्राली अनेक बालीरिती, रूढी परंपरा शिवांवर छादल्या होत्यां, एवर्वच काम तर मुख्य प्रवाही इतिहासातुन स्थियांना प्रमानक्ष्याम आले होते. तो सर्व इतिहास पुरुषक्रिते होता माणून या इतिहासाचे वर्णन करताना पुरुषांचा इतिहास असे केल्यास से अयोग्य उत्पाद वाही असे स्वी अध्यासांच्या प्रणास्य गर्दी छन्देर गांनी महतले आहे. १९५० च्या दशकात भारतातील दत्री घळवळी पूर्व आस्पा च त्थानिमित्ताने स्त्री अञ्चास सुरू झाला स्त्रियांच्या सीम्पापाताबत लाणिव निर्माण काण्यात सहत कारणारे घटक भागून शिक्षणाकडे पाह लागले गते गळवळीतील विभाग विकास विकास विकास हिसाबार स्वाचे आरोग्य, श्रीमक्तवा शम, समान नानरे कार्यस का महत्वांको राजी देण्यात आरो राजकीय नेतृत्व व शासकीय यंत्रणा प्रशासकीय संस्थापर्यंत आजरी स्वेशादी राजकत पीहीचाडी आहे. याद्राधीने स्त्री चत्रकव्यीची भूमिका व्यापन तीत गेली आहे.



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भारतातील भी गळवळीची वादशाल -

वर्गावाची वळवळीची दुसरी स्थाद १९६० ते १९८० च्या काळाण जामिक पावळीचर उसल्डेटचे दिसते. पहिल्या त्यांने विषयांबाळी शिक्षणाचा व मतदानाचा अधिकार पावर रूच केंद्रीत केंद्रे तर दुसऱ्या रच्यात आहंछ श्रीवाद मनोविष्टलेपणात्यक शरीवाद, समानवादी स्वीताद पास्तारहता श्रीकानोत्तन सिक्षणच्या प्रथमंत्री महिणी होत अस्वाचा दिसते.

वर्गवासी वाजवादीतील विसरी रचट १९६० च्या दशकामध्ये उसल्यको दुसन्या ट्यायांच्या प्रमाणयशाची चर्चा करण्यांचाती माणून विसारी रचट आकी, स्त्रीवादी विचारनंपन हे प्रामुख्याने पहिल्या प्रमाणतील संज्यांचार्य गोन्धा रिक्शाच्या अनुभवावर आवारले होते अशी जीरवार टीका होता राजवादी कृष्णवादीय स्त्रीवादी वेट्या तम् बळवळीच्या अग्रास्थती होत्या, स्थापिक पातळीवर स्त्री प्रान सम्चारका पेताला स्त्रीवादी विचारपेत्रा स्थापिक पातळीवरोल प्रशासी बहुआसापी चर्चा केटली पात सम्चारका पेताला स्त्रीवादी विचारपेत्रा स्थापिक पातळीवरोल प्रशासी बहुआसापी चर्चा केटली

## पगुरुवाद्यवातील जीपांचा अध्यास :

दिवारत अपवाद वालों त्यामुळे विकाला अल्यांनास्तिवारी समाजदादीरालुस्ट्या सूच्य अल्याया विभाग देखारू अपवाद वालों त्यामुळे विकाला अल्यांनासिवारी समाजदादीरालुस्ट्या सूच्य अल्याया सीची आव्यायस्थल आहे. कारण विकाल अल्यायार शीतात त्या अल्याचाराधारीमाने कारणती कार्यकारण पालिका आहे. कार्य विकाल अधिकार कोणने स्वा सुर्वाणतेचे कार्यते कोणने आणि स्वी अल्याचार क्यों कारणवासाठी क्याय यांचा अल्यास करणे आवस्यक आहे.

## सिवाचे कामहेशीर अधिकार :

भारतीय राज्यवनीतील भाग तीनमध्ये कलम १४ ते ३२ मध्ये सहा मूलभूत अधिकारांची तरतूद आहे. समतेचा राजक, स्वातंत्र्वाचा हानक, सीपणाविरुद्धभा राजक धार्मीक स्थातंत्र्याचा राजक, सोपणाविरुद्धभा राजक धार्मीक स्थातंत्र्याचा राजक, सास्तृतीमा य रीपणिक राजक परनात्मक उपायचीकानांचा राजक भारतीय राजकारनेने दिल्ले आहे सामाण सिल्लाकरील अत्यावारांच्या मुन्ह्रयाची प्रमाण सन २०१४ मध्ये ३४.६ राजके आहे आहे है प्रमाण प्रावणिकारित्वा अविशय गंभीर असल्याचे स्पष्ट होते. देशातील निवया शील अल्याकारांच्या सामानीत भागाव्या १८ वा अमंक आहे. परंतु मराअवाद्यातील जिल्ह्यांची राज्यातील मनकारी अञ्चाद्यां आहे.

भग्रक्तकातील सियावरील अत्याबार प्रमाण जिल्ला निवास

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Crime in Mahurashtra 2014.

महारक्षकार्वामें किल्लामाण दिवस्थानसेल महन्त्राचर्या विकार केल आसा सर्वत्र आसा अस्थानाह दिवोस्त्रे जिल्ह्यायको असून सर्वात कामे प्रसाम मारूम जिल्ह्यात अस्थानको विस्ता 新作

स्वी अल्बाचार निर्मुलनासाती उपाच

विश्वपावसेक अल्यानात ती एक गंभीर शामाणिक रामस्या आहे आणि वा समस्याय उपाय शोभाग्यासाठी समाजवार पुरेसे जागृत आहे. तो प्राप्त तिसीण प्राप्तम आहे. या समस्येगी अध्याता पोलिस रुपवरणा, करोर कामटे दिला जन आहोलनाची मरल प्रेणी नाम तर या वसनाकी मुकायका अरुवायस्थाकी समाजानी गान तन्त्रीत गामसिक्य कथारी पाली पालिले (प्रत्यानी संस्थाप क्रियट) पीट्यमान्य काम, सरकारमी वासावसी विच्या त्या स्त्रीची वेशमतीका जवाक्यारी आहे जाता संवर्तका च स्थादित दृष्टीकांन उपयोगाला भागी तर समाज म्हणून आसे गुन्हे करणात्या प्रयुक्तीयर समायोजना वैतिक द्वाल असमें महस्सारी आहें. महित्स वालतचा बुरसहरूरेश मध्यसुमीन दुव्हीकीमा सदश्यमें है अत्यादक समाजापुरुषे खरे आव्हान आहे देशातील प्रत्येक स्थातीण आर्थिक आणि सामाजिक विकास सामन विस्तान मानवी विकासाची पासळी प्राप्त करावी. तेथ्यान खाऱ्या अरवीन आशा पटनाची संख्या पटेल व महिला सहावसीकरणांच्या मुधीमें आपण एक पाठल पुढे हास्तु

वरितः सर्वं उपास हे फम्मा भरातवाहयापुरतेल मुर्योदित नसून राष्ट्रीय पातव्यीवा देखील वंतरित काम् बीतात प्रथम आहे फवत जनसामान्य ते सन्तरीय प्रवाह रूटी सवतीच्या असङ्ग्रह्मायणीया

## सदमं सची :

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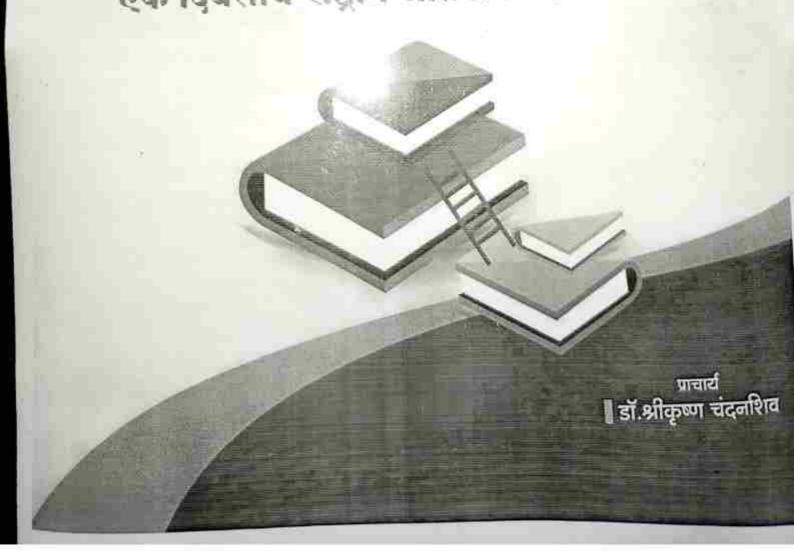






शंकरराव पाटील महाविद्यालय, भूम व डॉ.बाबासाहेब आंबेडकर मराठवाडा विद्यापीठ, औरंगाबाद यांच्या संयुक्त विद्यमाने

''राजर्षी शाहू, महात्मा फुलें, डॉ.बाबासाहेब आंबेडकर यांचे योगदान '' या विषयावर एक दिवसीय राष्ट्रीय आंतरविद्याशाखीय परिषद



46) डॉ बालागाहेव आवेडफर यांचे आधिक विशास

47) महान्या जातिसव पुल का सामानिक आप

प्रा. माधव जे. बी., उस्मानाबाद

डॉ. वाळासाहेब गौरीशकर पाणेल, उस्मानाबाद

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## महात्मा फुले यांची सामाजिक न्याय आणि समता

पा विद्रल बान्सव गृष्टे इतिहास विभाग प्रमान गरिकानेनी काला वर्णणान्य व विद्यास महाविधाल्यम शिक्षा (वा) शि वीव

- Andrewsenson

महात्वा अंग्रेनीया पत्र पार्थ ताल विस्था नाती क्षस्य मन्दर्भ मनागानाने कात्रात्वो व गीण करणा आपन्या कार्याच्या साम्बन्धानुन मानवार्याच्या सामाग समारकारो एक अपूर्व असे स्थान विश्वीत विका न्याच्या समकालीन संघारकाची कवल मांगाणिक पण्याकः महिलाच्या उनलीमामा आणीकः जीवाणक व राजिकच समानता प्रस्थापन क्रमानासी द्रवान केले. तर महात्मा फले प्यानी माराज्य जाती व च्या काना असणारा परपरागन सामाजिक भगात दूर साल परनाग यामाजिक कर्ती, प्रस्तर, प्रश्न यान्या माएक एकपालागार कार्य स्थानी केले. महातम फ्लेयानी आणाचा पार्याला मते क्य देणसासादी सद्योक्षती काम आण्यक्रापक आहे. यासाठी मोठवा प्रमाणात विश्वान करून नावता गहबीएयाचे कार्य केले त्यानी एक गाम न जाएकाच्या उनगर्धन ने क्रानीकारी विचार माहरते त्यानी आजारवीस्थे सर्व आतरमध्येय किलीमान मोहले आहेत. सामाजिक परिवर्तन विषयोग विचार माइन ग स्थानी जो वस्ति प्रकार आणि सो निर्भयपणा राज्यारा त्याम खगम्बार जेस नामी विद्यापाया, लक्यानी आणा विवय मान्या याचे निक्य लाखन जेला त्यांनी शिंद समें आणि प्रमाश समाजिक समज्ञी आणि संभीत्वात याचे प्रतिशासक केले नेवट हिंदू अमें क्राण्यान जीवा तवरवनाच अमेर दांचे सामाजिक सती आणि गरपाणा एवं साह असीम न्यापार साम्रा विद्युत गुली भागत वर वर मातान मिळालो आहाचा फार्च परंगी मानेच विशेष गार अक्ष

वाकारण माणिकार, विशेषकार माणि प्राचारण प्राच्य आहे महाराम प्राच्यांनी प्राचारण प्राच्य आहे महाराम प्राच्यांनी प्राचारणांना स्थायंत्रह अग्रेष्ट्रस्थात्र आहे. आणाण्यांना स्थायंत्रह अग्रेष्ट्रस्थात्र आहे. अग्रेष्ट्रस्थात्र स्थायंत्रह आहेत स्थायं स्थाप्त आहे. आग्रेष्ट्रस्थात्र स्थायंत्रह स्थाप्त स्थाप्त स्थाप्त स्थापत स्यापत स्थापत 
मारामा करे पाल्या मासाविक है। पेर्टीपंड ता भारतकारा नेस्सीहरू अधिकार हुन फले यांना क्रीसन्ट पशानील खुम्ली भागिकात वास्त्राचाकृत आणि विशेषत अवस्य एवं भारत है। भागमान्या या अध्यक्षित्र अधिकारित अस्ति । Regions where 'To are Rights of Man' to be पान्याका प्रमान होता हिंदु समयहस्तान प्रमान गार्गीस्या विकास अमिकारांचे विवेदन क्रमेशाय है। भारतीय इत्योक्तर समायासम्बद्ध व्यक्तिक वर्गामात्रमा अमित्रमा विकास अधिकार व s department of the property was अभिकृति विस्तिताहरूचा जातीचे प्राथमा असूध शाना व वाक वाक्षीवसन कहा क्रायमञ्ज्ञाचील साना -रामा । विकास विशासिक से सेम्प्रीय साम गार्थर रक्ष्या अगरत्या तैसर्गों हे आंस्क्रप्रका ताम जन्म तकत

मा ता हक्क यसावनाना दुस्त-या कुणानेही भाग ता हक्क यसावनाना दुस्त-या कुणानेही तरहोत नाही चाकिता व्याच्या कक्काची होत नाही याची विनार केला पाहिने पान पुले यानी मानवाच्या हक्काच्या आह येणाऱ्या समजातील वर्णाल्यवस्था, आसीभेद, स्वीविधयक समजातील वर्णाल्यवस्था, आसीभेद, स्वीविधयक विकास यासारख्या गेप्टीवर टोकेची झोड उठवली

भारतिय समाज हा चातुर्वच्य व्यवस्थेत वार्यका गेलेला होता. ब्राम्हण, क्षत्रिय, वैश्य, शृद्ध ही हा इत्वरणा इंज्यरनिर्मित आहे असे प्राचिन सिंह धर्म अ सांगतात परंतु या व्यवस्थेने समाजव्यवस्थान दही इसीण करण्याचे कार्य केले असे फुले मानतात या बार्ग वर्णांची निर्मीती विराट पुरूषांच्या मुख, हात, माहया व पाय यांच्या पासून झाली अहे सर्वश्रुत आहे. हे जरी वर्णनात्मक असले तरी त्यामध्ये उच्चनिचतेची बीजे आहेत तसेच अधिकार भेदाची सामाजिक विगमतेची कलाना यामध्ये समाविष्ट आहे ज्योगीराव यांनी या व्यवस्थेवर घणाघाती प्रहार केले ते म्हणत मानव समाजात कल्पकरोने असे विभाग पाडणारी व्यवस्था अन्यायकारक व लक्ष्मपानी आहे. ब्राम्हण समाजाचे ब्रेस्टतव केंबळ धर्मशास्त्रकाराच्या कल्पनेचा खेळ आहे. कारण बुद्धीमल्ला, गुणकार्म ही समाजाधिष्टीत नस्त व्यक्तगत असतात ते पुढे म्हणातात.

'मानव सारिखं निर्मीके निर्मीके। कमी नाही केले। कोणी एकः॥ कमी जास्ती बुद्धी मानवा वोणीली। कोणा नाही दिली। पिढीजादा 'मिर्मीके निर्माले मानव पवित्र। कमी जास्त सुत्र। बुद्धीमध्ये।। कमी जास्त सुत्र। बुद्धीमध्ये।। पिढीजादा बुद्धि नाही सर्वामधी।

शोध करा आधी। पुर्तीपणी" यानुसार आपणं पाहिले जर इतिसात जेवंदे यानुसार आपणं पाहिले जर इतिसात जेवंदे राजरजवाडे, बादशाह झाले स्वापको कोणाचे पुळ गुरुष शिकारी, कोणाचे मेहके, कोणाचे शेतकरी, कोणाचे पुरुष शिकारी, कोणाचे बंडखीर असे आढळतात त्यामुळे कारकृत. कोणाचे बंडखीर असे आढळतात त्यामुळे कारकृत. कोणाचे बंडखीर असे आढळतात त्यामुळे जी वर्णळ्यवस्वा हिंद समाजावर लादलेली आहे, तो

गांधीत्वमा रेशकः नार्थः स्थानि कार्यमधा विद्यालको कार्यका आहरी आभा पर्धः उन्हर्नायसेन्सा महत्त्वमा महत्त्वमा पहित्र पानी विकासम् नेत्वा आहे.

फुले यांचा जाती विषयक विचार : हिंद समाजात्या सामाजिक य भागीक अधापनस्य जामीक्यवरथा पूर्णतः जनानदारश्चीरः अने एकं माननाव अतयक मनुष्याचा दत्तो, इंक्क, कर्ताव्य, अस्यर भर्म इत्यादी सर्वकाही त्याच्या जागीवरूम उम्बर्ध गार असि, सर्व माणसे समान अगरेन है जाही संस्थ्य मानय नाही. जातीची श्रेणीबद्ध रचना गाणमान्या असायमतस्या तत्वावर आधारलेली आहे. पाणनच पुले जाती संस्थाचा आणि तिचे समर्थन करणाऱ्या धर्माता धिककार करतात, गिनिहासिकन्यक्या जाती संग्रेच उगम प्राचीन कान्द्री आर्य - इविड संवर्णातन जाला अशी उपपत्ती फले मांड्सन, आर्यानी बाहेरून येउन वेथील कारवी, माळी, आगरी, कोळी, भील्ल, गमीणी, मांग, महार इत्यादी मळन्या क्षेत्रप्रतीना आपले वास अमुविले, त्यांनेलेस त्यांच्या जीवनात वर्ण विभाग असला नरी, जातीभेद अस्तित्वात नव्हता, पण पुढे व्याच्या अंकीत असणाऱ्या ग्रहातीणदांचा समाज जसजसा वाहत चालका, त्यानुसार आर्थानी त्यांच्यामध्ये परस्पर विभागणी करणयाचा पाट घातला येवडे करून ने श्रांबर्छ नाही तर, त्यांनी कापण त्याही श्रम न करता त्यांच्या श्रमावर. उत्पन्नावः विन्धारतः मीज करता येईल यासाठी असीफेशमें धाराड निर्माण करूण स्थावर स्वहित सासक ग्रंथ निमाण केले

या जाती व्यवस्थिपुठे यांच्यामध्ये आचार-विचार, खाणीपणे, वालोरोती, आप्तांमत्र सांच्यान फरक पड़ा नेत्वा, आही जानीन रोटी व्यवहार चालू गढीला पर वेटी व्यवहार निएएड मानला गेला, वान्यानामा जाती रेटीव्यवहार आणी मेटीव्यवहार यांचे श्रेत त्या - व जातीपुरनेच मर्यादित ठेवले, जातीजातीत नृष्टका वाल जेवहे येक लगला त्यामुळे हे सब लोक एकव येठ णाचे मुळ पुलामागरीतिहत बड करतील अशो सवयता उर ती, क्षीणाचे नाही, जाती मरशेच्या उत्पत्ती विषयी अनेकानी आण न त्यामुळे मते मांडली आहेन, परंतु यामध्ये एक गेष्ट स्पष्ट आहे, तो की जातीव्यवस्था हा केवळ श्रमविभागणीचा या हक्काची नम्बन त्यात उच्चवर्णीयांचा स्वार्थ रहलेला आहे क

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## Savitri Bai Phule The Pioneer Of Womens Empowerment

Vithal Baburao Gunde

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#### Abstract:

Without Women we don't think about family and society because they play an important role in their life. Their role is very important for the development human society and also every stage of life. But women empowerment is the boiling issue all over the world. Though women are not completely empowered in India because Indian traditions, customs and culture, but the process of women empowerment is started in 19th century and that credit goes to Savitribai Phule in Maharashtra. If she would have not taken the initiative to efficate women then the condition of women would have been poor. This paper is highlight Savitribai Phule's role of Pioneer to women empowerment. She played a vital role as a teacher, poet, liberator, social reformer, for women's. Also she was mother of modern education and arationalist.

Keywords: Savitribai Phule, 19th century, Social-reforms, Pioneer, WomenEmpowerment.

#### Introduction: -

Savitribai. Jyotirao Phule was born on January 3, 1831 at Naigaon, near about 50 kms from Pune. She was the eldest daughter of mother Lakshmi and father Khandoji Neveshe Patil. In 1840, at the age of 10, she was married to Jyotirao, who was 13 at the time. After marriage Savitribai and Jotiba lived in a Dalit-working class locality in Pune. Jyotirao educated his wife at home and trained her to become a first lady teacher. The responsibility of Savitribai sfurther education was taken up by Jyotirao's friends Sakharam Yeshwant Paranjpe and Keshav Shivram Bhavalkar (Joshi). Savitribai also had taken teacher's training at Ms. Farar's institute in Ahmednagar and in the Normal School of Ms. Mitchell in Pune Savitribai went on to become India's first woman teacher and headmistress. It is her struggle and story that marks the beginning of modern Indian women's public life in India.

The surprising couple was engaged in a passionate struggle to build a movement for equality between men and women and a fight against the caste system. They devoted their lives to increasing education and knowledge. They started the first school in the country for girls and the 'Native Library'. In 1863, they started a 'home for the prevention of infanticide' in their own house, to ensure the safety of pregnant and exploited widows. They also established the SatyashodhakSanai, introducing the practice of marriage without dowry or overt expenses. They were against child marriage and supported widow remarriages.

First School for girls: - Savimbai Phule completed her studies she started first women school exclusively for girls in India at that time when no one could think about educating a girl. School started in Bhide Wada at Pune on 1 January 1848 and was the youngest female school teacher of modern India, at the age of 17 years. Jyotiraosays if we think developed society we needed developed childand development of child is not possible without her mother that swhy mother is very important. So those who are worried with the happiness and welfare of this country should definitely pay attention to the condition of women and make every effort to impart knowledge to them if they want the country to progress. With this alleged, I started the school for girls first. But my caste members did not like that I was educating girls and my own father threw us out of the house. Nobody was ready to give space for the school nor did we have money to build it. People were not ready to send their children to school but LahujiRaghRautMang and RanbaMaharcommitted their caste members about the benefits of getting educated. Savitribai, initiated handling the school administration as a headmistress.

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Initially only 9 girls took admission but all of them were from different castes. She had taken innovative step to educate women which was not liked by traditional society. People used to throw mud, cow dung on her but she faced it courageously. Then she opened two more schools and one of them exclusively for Dalit children. The British government honored the JostibaPhulo&Savitribai Phulo for their efforts in the field of education. Savitribai was declared as the best teacher in 1852.

#### Work for Social Reformation:

Savitribat Phule was a first women social reformer in India. Mahtmaphule and Savitribaiphule started shelter home for widows becaused young Brahman widow named Kashibai used to work as a cook at the home of Jotiraois Brahman friend, Govande. Kashibai was a poor, young, beautiful, honorable Brahman widow from a good family. A scheming Shastri from the neighborhood took advantage of this illiterate widow and as a result, she became pregnant. When all efforts at abortion failed, she gave birth to a beautiful baby. Since the shastri refused to take up any responsibility, Kashibai was in a quandary. Fearing that society will not let her live, she killed the innocent baby by slitting its throat. She threw the body in the well in Govandeis compound, where it was later discovered. The Police filed a case against Kashibai and she was sentenced for life imprisonment in the Andamans. The incident took place in 1863. It was the first time a woman had been sentenced to such severe punishment. Savitribai and Jotirao were very upset and distressed by this trial and the turn of events. They immediately started a shelter home for such Brahman widows in their own house at 395, GanjPeth, Pinne.

Those days' dalits were not allowed to take water from public tanks & wells. Many times they used to remain thirsty. In 1868 Savitribai Phule& Jyotibaphule dug a well in their house and made open for people from every caste. It was a big challenge for upper caste society. But they took a daring step. After releasing the problem of caste discrimination prevailing among women she started organizing meetings of women. She was calling women for Tilgul festival. So women from different caste used to come together and share their problems. Because of all these things she came to know the reasons of women's worse condition. The reasons were authority was in the hands of males of family and mindset of people. In 1852 she formed MahilaMandal in Pune. This MahilaMandal was working for the women empowerment and liberty of women. Jotirao and Savitribai were running a hostel in their own house, where students from far off places would stay for the purposes of education. A student from Mumbai, LaxmanKaradiJaaya had lived in this hostel and experienced Savitribaiis motherly care and concern.

SavitribaiContribution as a Poet: Savitribai Phale was a well-known poet of Marathi and English. She was the first Indian woman whose poems got noticed in the British Empire. The name of her first poetry composition was 'KavyaPhule' which was published in 1854 She consciously chose the traditional form of writing like abhang, which called a folk form. Her language is simple and effective. While some of her poems are mostly nature poems, in others she engages with the themes of education and caste system, exploring people to throw away slavery. 'BavanKashiSubodhRatnakar' was published in 1982. Theme of her poetry was centred at educational and social reforms. She is known as the pioneer of Marathi poetry. She was stressing the necessity of English and education through her poems.

Savitribat's writings expressed the pain, ambition and feeling of the modern, liberated Indian woman. While her contemporaries were busy re-constructing the images of the mythological pativrata women such as Sita-Savitri module, in contrast, she expressed the passion of modern Indian literature. She was able to develop her own voice and agency at a time when women of all classes were brutally suppressed and lived a secondary-human being existence.

Conclusion: Savitribal was having firm courage to face traditional people. Her goal of life was freedom from Indian tradition, freedom from religious autocracy and rituals. Savitribal Phule wanted to introduce practical philosophy of human being, individual growth from education, other unethical things she was rejecting like so

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called Indian tradition. In her philosophy she was talking about individual growth, love, care and humanism as virtue, her emphasis on self-reliance and wants to interpret Indian tradition in her own way. They fought against the tradition and fought for human rights, rights of education and rights of human development. She took aenormously innovative stand in her whole life. She was first woman to enter into male bastion society. She was not a straight Indian devoted wife but she was a inspiring teacher, courageous leader, brave social reformer, great thinker and critic writer after all she was real pionear of women's empowerment. I would like to conclude with that, her thoughts and works she could bring about a complete change in all domains of women's lives.

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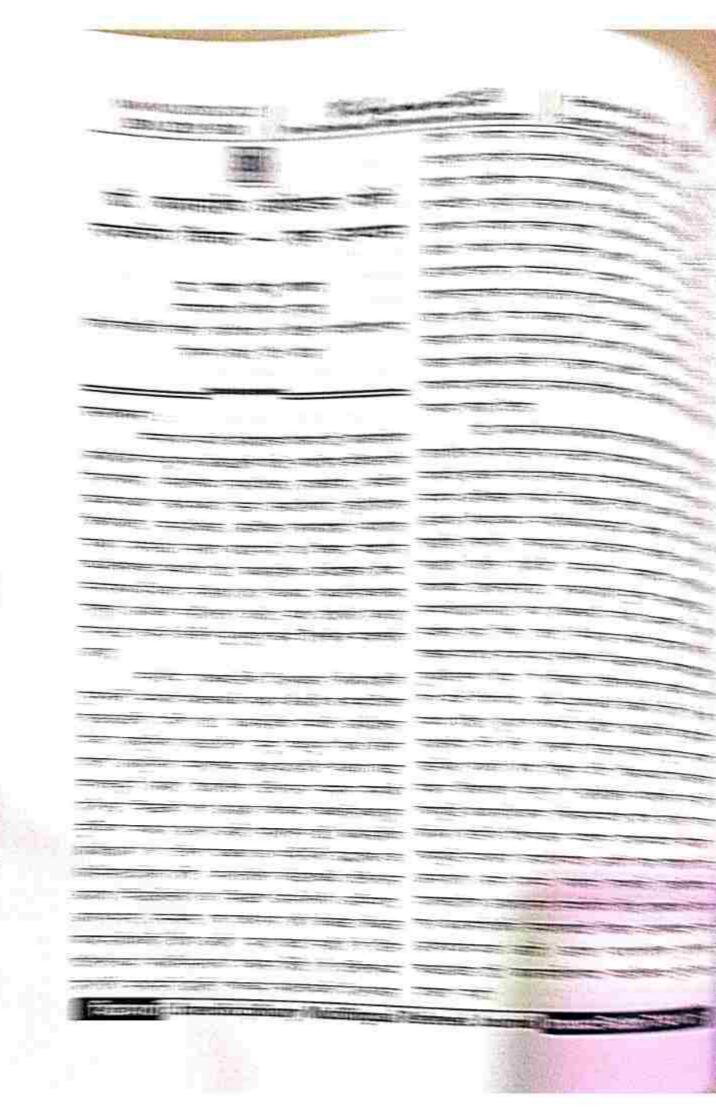


शंकरराव पाटील महाविद्यालय, भूम व डॉ.बाबासाहेब आंबेडकर मराठवाडा विद्यापीठ, औरंगाबाद यांच्या संयुक्त विद्यमाने "राजर्षी शाहू, महात्मा फुले, डॉ.बाबासाहेब आंबेडकर यांचे योगदान " या विषयावर

एक दिवसीय राष्ट्रीय आंतरविद्याशाखीय परिषद



प्राचार्य डॉ.श्रीकृष्ण चंदनशिव



Man 2210 02 %

MM MULUSUS 1/20. MSN: 2319 9318 ं आ. राष्ट्रवादी विचारांचे होते काय? इ. अ. करानी राष्ट्रीय एकान्य ुर्त अर्गः करानी राष्ट्रीय एकात्मता निर्माण इर्त अर्गः

हेंगी: अर्गनी स्वयं निर्णयांच्या हक्कांचे डॉबी: अने काय?

र्श^{मध्य} आ. करांना सामाजिक लोकशाही अ. इं. इं. सेती.

अभिश्र करांनी समाजवाद प्रस्थापित इं.ब. आ. करांनी समाजवाद प्रस्थापित इरायासाठी प्रयत्न केले.

बाबासाहेब आंबेडकर लोकशाहीचे खंदे

्रं _{बाबासाहेब} आंबेडकर समता प्रस्थापित

इरण्यासाठी प्रयत्न केले काय? समता, न्याय हे तत्व त्यांनी

भू _{एउप हे} व्यक्ती विकासाचे साधन आहे काय? ्र कुशल कायदे पंडीत व घटनेचे शिल्पकार

समाजिकशास्त्र संशोधन करत असतांना संशोधन तंत्रन पद्धती इंति दूर महत्व असते डॉ. वाबासाहेब आंबेडकर क्षे जर्काय विचार : एक अध्यास हेसंशोधन करत ह्वांना विश्लेषणात्मक संसोधन पद्धतीचा अवलंब

i, बाबासाहेब आंबेडकराचे राजकीय विचार :

१. राष्ट्रवादी विचार : राष्ट्रवाद ही मानवी क्रीयक्तों आहे ते म्हणतात ''राष्ट्रवाद हे असे सत्य ग्रहे व्यापासून निसटता येणार नाही अगर त्यास काल येणार नाही. जरी त्यास कोणी अबौद्धिक _{पता किंवा} प्रम म्हटले तरी राष्ट्रवाद ही परिणामकारक ान्नी असून तिच्यात साम्राज्यउखडून काढण्याची ह्ना क्षमता आहे."

२. स्वातंत्र्य : स्वातंत्र्याचा खरा अर्थ भवातील कमकुवत घटकांची अंतर्गत गुलामगिरीतून ••• जिता होणे एवढाच अर्थ त्यांना अभिप्रेत नव्हता रू भेळ पश्चिमात्याच्या वर्चस्वापासून मुक्त होणे एवढाच शिनेच याचा दुसरा अर्थ त्यांच्या मते खरा राष्ट्रवाद ^{भाजेच} लोकामध्ये असलेली एकतेची चैतन्यमुक्त नागी होय. आपल्या देशाबद्दल देशबांधवा बद्दाल व

त्याच्या प्रतिष्ठेयावत आंबेडकराच्या मनात निश्चित अभिमान होता. स्वतंत्र्य म्हणजे समाजातील पायदळी तुडविल्या जाणाऱ्या लोकांना मनाचे व प्रतिष्ठेचे जीवन प्राप्त होणे होय. डॉ. आंवेडकरांच्या दृष्टिकोनातून, तास्विकदृष्ट्या राष्ट्राला एक घटक म्हणून समजणे शक्य असले तरी समाजशास्त्राच्या रृष्टीकोनातून ने अनेक सामाजिक वर्गाचे बनले असते. राष्ट्रीय स्वातंत्र्य जर वास्तव स्वरूपात अभिप्रेत असेल तर आपण त्यातील सर्व वर्गाना व त्यातही विशेषतः ज्यांना गुलामगिरीची वर्तणुक दिली जाते त्यांना हे स्वातंत्र्य मिळकू दिले पाहीजे.

## चिरकालीन ऐक्याची भावना :

चिरकालीन ऐक्याच्या संदर्भात ते म्हणाले होते 'हि ऐक्य बंधुत्व भावनेवर उभे हवे. थोडक्यात, ने आध्याम्तीक वैठकीवर उभे हवे'' त्याच्या मते, हवे असले तर केवळ राजकीय ऐक्य नाही तर हे हृदयाचे आणि आत्म्याचे ऐक्य हे केवळ भौतिक हित संबांच्या समाधान पूर्तीवर अवलंबुन असून चालणार नाही.

# ४. राष्ट्रवादी भावनेचे स्पष्टीकरणः

आंबेडकरांच्या मते, राष्ट्रवादी भावनेतील महत्त्वाच्या महत्त्वाचा घटक म्हणजे आपण सर्व एक आहोत ही जाणीव होय राष्ट्रवादाचे भाव संबंध इतके घट्ट आहे. त्यामुळे आर्थिक संघर्ष किंवा सामाजिक वर्गभेद हे बांध ओलांडले जाऊ शकतात यांचाच अर्थ राष्ट्रवाद हा आंतर राष्ट्रीय बंधुमाव निर्माण होण्यासाठी अडधडा नसावा असे त्यांना वाटते.

## ५. राष्ट्रीयत्व राष्ट्रवाद :

राष्ट्रीयत्व राष्ट्रवाद या मानवी मनाच्या दोन मिल कल्पना आहेत. परंतु त्यांचे एकमेकांशी जवळचे नाते आहे. आंबेडकर म्हणतात, राष्ट्रीयत्वाची भावना अस्तित्वात असेल आणि तरीही राष्ट्रवादाची भावना नसेल. म्हणजेच राष्ट्रीयत्वाचे प्रत्येक उदाहरण गुष्ट्रवादीची निर्मिती करीलच असे नाही डॉ. ऑवेडकरांच्या मते राष्ट्रीयत्वाचे प्रत्येक उदाहरण राष्ट्रवादीची निर्मिती करीलच असे नाही डॉ. आंबेडकरांच्या मते राष्ट्रीयत्वाकडूनच राष्ट्रवादाकडे जाण्यासाठी दोन अटींची पूर्तता होणे आवश्यक आहे. १. राष्ट्र म्हणून जगण्याची इच्छा निर्माण झाली पाहीजे.

राष्ट्रवादास भौगोलिक अधिष्ठान असले पाहिजे भुमीविना राष्ट्रवाद म्हणजे शरीरांच्या शोधात असलेला आत्मा असाच प्रकार होईल. राष्ट्रबाद निर्माण होण्यासाठी Deferred Journal ImpactFactor7.041(IUIF)

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राजकीय एकतेच्या पाठीमार्गे सामाजिक बंधुत्वाचा भवनत्म पाया आधार म्हणुन हवा ते म्हणत ''भारत है राज्य असेल पण राष्ट्र असेलन असे नव्हे. राज्य जर राष्ट्र नसेल तर ते जीवन संगर्गत टिकण्याचा संभव नाही."

६. स्वयं निर्णयाचा हक्क :

डॉ. बाबासाहेब आंबेडकरांच्या मते, आशिया व आफ्रिका खंडामधील राष्ट्रवादावर लादल्या गेलेल्या साम्राज्यशाही विरूद्ध त्या राष्ट्रांचा स्वातंत्र्यासाठी रुढा सुरू झाल्यानंतर या स्वयंनिर्णयाच्या हक्कास एक आशय निर्माण झाला. स्वयंनिर्णयांचा हक्क म्हणजे परकीय वंशाच्या राजवटीपासून राष्ट्रीय स्वातंत्र्य प्राप्तीचा हक्क होय.

## ७. भाषा व राष्ट्रवाद :

डॉ. आंबेडकरांच्या मते, भारताती विविध भाषा या राष्ट्रवादी चैतन्थांच्या वाढीला मारक ठरत नाहीत. कॅनडा, स्वित्झर्लंड, दक्षिण आफ्रिका येथील भाषा हया राष्ट्रवादाला बाधक ठरतात.

८. लोकशाही :--

## ३. सामाजिक परिस्थिती :

- भारतात प्रदीर्घ काळापासून सामाजिक विषमता आहे. जाती व्यवस्थेने मोठया प्रमाणावर विषमता निर्माण केली आहे.
- समाजात श्रेष्ठ आणि कनिष्ठ स्तर निर्माण झाले आहेत. त्यामुळे समाजातील एकात्मतेचा गुंता निर्माण झाला.
- अनिष्ट रूढी, परंपरा यांचे वर्चस्व समाजावर
- समाजातील श्रेष्ठ व्यक्ती या पुरातन असा विचारांच्या आहेत त्यामुळे नवीन बदल स्वीकारला जाऊ शकत नाही, जाती — जातीतच रोटी — बेटी व्यवहार होतात.
- निवडणुकीच्या काळात धर्म, जात आदींचा आधार घेतला जाती,
- यामुळे भारतात मोठ्या प्रमाणावर सामाजिक समस्या निर्माण झाल्या आहेत.

## २. आर्थिक परिस्थिती :

• समाजात मोठ्या प्रमाणात आर्थिक विषमता आहे. काही लोकांच्या हाती संपत्तीचे केंद्रीकरण झालेले

blication | Species आहे.

येते.

• रोजगार उपलब्ध होण्यास जीत • रोजगार उपलब्ध करून देताना गुलामानी वागणुक दिली जाते.

दिली जात. अशी शोपनावर आधारित आर्थिक चेत्र अस्पशय हे अल्पसंख्यांक के अशा राज .. भारतांची आहे तसेच अस्पृशय हे अल्पसंख्यांक वेशी जन्मज दाबुन त्याचेसतत शोषण के भारतांची आह तका - . . त्यांचा आवाज दाबुन त्याचेसतत शोषण के

## शैक्षणिक परिस्थिती :

- ाणिक गाँउ समाजातील अनेक लोक अज्ञानी भेरे न हेणे ही क • समाजाताः • शिक्षण घेणे व देणे ही उच्च विक्रि बिराजदारी आहे.
- । जार. निवडणुकीच्या काळात अज्ञानी हो_{गेर} फायदा करून घेतला जातो.
- जनता स्वत:च्या अधिकारप्रती नामिक नसते.
- लिहिता वाचता न येणाऱ्या लेक्क राजकीय सहभाग फारसा प्रभावी नसतो.
- राजकीय पक्ष किंवा सरकारला गैकीह समस्या व त्या सोडविण्यासाठी मार्ग पुरेसे महित नसल्याने त्यांना हलाखीचे जीवन जगावे लागते. राजकीय परिस्थिती :
- भारतात लोकशाहीला अनुकूल (मुन) वातावरण नाही.
  - राजकीय पक्षांवर उच्चवर्गीयांचे वर्गस्व आहे.
- स्वतंत्र व नि:पक्षपातीपणे निवडणुका है नाहीत.
- बहुमताऐवजी विशिष्ट जातीकडे संबे केंद्रीकरण होते.
- भारतात लोकशाहीची परंपरा नाही. म्हणके ती नवीन व परकीय आहे.
- दुसऱ्यांना गुलामगिरी ठेवण्यात उच्चवर्णीकी समाधान वाटते.
- बहुसंख्यांक जाती अल्पसंख्यांक जातीं अन्याय, अत्याचार करतात.
- लोकशाहीच्या बुख्याखाली उच्चवर्णवंबं सत्ता प्रस्थापित होऊन विशिष्ट जातींना सलेपाएँ

विद्याताता: Interdisciplinary Multilingual Refereed Journal ImpactFactor7.041(UF)

MAH MUL 03051/2012 SSN: 2319 9318 क्रण्य आर्थिक लोकशाही प्रस्थापित होणार व आर्थिक लोकशाही प्रस्थापित होणार अस्थापत होणार जे वर्तत राजकीय लोकशाही यशस्वी होणे अहे

होकशाही : र्क लाउँ और्वेडकरांच्या मते लोकशाही हा केवळ डॉ. ओर्वेडकरांच्या मे लेक्ट डा नेवळ प्रकार नसून तो जीवन जगण्याचा प्रकार प्रकार जगण्याचा मार्ग आहेव गण्याच ्राण्याचा । जगण्याचा मार्ग आहेत्र यासाठी

- , समाजातील विषमता नष्ट करणे. , समता निर्माण करणे.
- , ह्यक्तीचा दर्जा जात, धर्मावर न ठरविता

- . भेदभाव नष्ट करून बंधुभाव वाढवावा.
- . प्रस्पर सहकार्य, त्याग, सहिष्णुता, प्रेम

- . स्वातंत्र्य, समता, बंधुता हे तत्व समाजात ह्यू सामाजिक विषमता नष्ट करून व लोकशाही
- र्_{इंड} खना अस्तित्वात आणावे. लोकशाही ही केवळ शासन पद्धती नसून

- लोकशाहीत ''एक व्यक्ती एकमत'' है इंदरपद्भती हवी. 🕫 अयोगी नसून 'एक व्यक्ती एक मुल्य हे तत्व
- सामाजिक लोकशाहीचा पाया पक्का नसेल इन उपयोगी' ह वनकीय लोकशाही लोलमङून पडेल. यासाठी इं फ्रारचे भेदाभेद नष्ट करून किमान जनतेच्या व्यमिक गरजा पूर्ण कराव्यात.

राजकीय क्षेत्रापेक्षा सामाजिक क्षेत्रात व्यक्तीवर र्शक अन्याय होतो. व्यक्तीच्या पिळवणुकीचे मार्ग कारोक्षा समाजाकडे अधिक असतात असे डॉ. भोडकर म्हणत असत.

## भरीय लोकशाही :-

- भारताला इंग्लंडच वास्तव्यामुळे संसदीय ^{केनशाही} परिचित होती.
- संसदीय लोकशाहीत २० व्यक्ती प्रमुख अयुतात.
  - कायदे मंडळातन कार्यकारी मंडळ निर्माण

N^{NU}2319 9316 SN: 2319 अविडकरांन्या मते, भारतात जोपर्यंत जवाबदार राहते. या सर्व वावी विवासन चेऊन हणे हो अविडकरांन्या मते, भारतात जोणार आवेडकरांनी संसतीय कोज करने

## संसदीय लोकशाहीचे वैशिष्ट्ये

१) समता २) शक्तीशाली विगेधी पक्ष 3) कायदा व प्रशासन क्षेत्रात समानता ४) घटनात्मक नीतिमत्ता ५) अल्पसंख्यांकांची सुग्धितता ६) नीतिमान समाज व्यवस्थेची गरज ७) विवेकी लोकमत दोग १) संथ प्रगती २) संघटनेतील दोप ३) विभूतीपूजा ४) विवेकाऐवजी भावनेला ५) सहिणुतेचा अभाव व जाती ६) आर्थिक व सामाजिक विषमता.

## लोकशाहीच्या यशस्वितेसाठी आवश्यक बाबी:

१) आर्थिक, सामाजिक न्याय २) समाजवाद सनदोशीर मार्ग ४) सभांडवलशाहीवर मर्यादा ५) व्यक्ती स्वातंत्र्य व समाजवादाचा समन्वय ६) समानता ७) मनाची मुक्तता ८) विषमता विहरीत समाज ९) विरोधी पक्ष १०) घटनेला महत्व ११) अल्पसंख्यांकांचा विचार १२) नैतिक मुल्यांना महत्व.

## निष्कर्ष :

- १. आंबेडकरांना लोकशाही शासन प्रकार प्रिय
- २. लोकशाहीचे उदिष्टे समाजवादाशिवाय साध होता. य होऊ शकत नाहीत असेत्यांचे मत.
- डॉ. बाबासाहेब आंबेडकरांनी वास्तवादी दृष्टीकोन स्विकारला.
- ४. डॉ. आंबेडकरांची आयुष्यभग्रची भुमिका दलित समाजोद्धाराची होती.
- ५, डॉ. आंबेडकरांनी मुलभूत हक्काचे समर्थन

केले.

- १, डॉ. व्हि.जी. कुलकर्णी प्रा. कॉन सोमवंशी संदर्भ सूची : भारतीय राजकीय विचारवंत कैलाश पब्लिकेशन्स औरंगपूरा, औरंगाबाद.
- २. प्रा. बी.वाय.कुलकर्णी प्रा. अशोक भा. नाईकवाडे भारतीय राजकीयविचारवंत श्रीविद्या प्रकाशन २५०, शनिवार पेठ पूणे -४११०३० १, ऑगस्ट

३. प्रा.डॉ. शुभांगी राठी भारतीय राजकीय विचारवंत कैलाश पब्लिकेशन्स, औरंगपूरा, औरंगावाद

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## "भारतीय राजकारणातील प्रमुख समस्या : जातीवाद एक अभ्यास"

#### क्षा जन्म जेंद्र शावत

राज्यसावर निरुद्धा प्रमुख, क्वीनकारेची काला, वार्त्यन्त्य व निर्द्धात सर्विकारन्य, त्रिया (का.) हिंत. बी.स.

जी विकृष कात नहीं भी जिला अने कार्निकेश कार्ने प्राचेत्रका सक्षीते कराते कार्त, बात विश्वीय अवस्था मार्ग तरने, बाराय नार्मी हत्य प्राचीन आफूरिक, फ्रान्ट्रीन कारारात्न ते होकतो हताते अचीयात्न असिक्यान आहेत. चार्मन स्थानन स्थानन ती अहिताला करा करात उन्हें, 'बार्च हो एक शास्त्रीयक संबंध आहे. अने सच्चासारहत बांचाना

कारीका श्रेष्ट केवाड अन्यासपूरण पर्यापत प्रकृति प्रमुख गर्यक प्रवेश धारतेत अनेत्रवास, त्रिवार गरेना, सामानाराह, राजकारण, क्षेत्रीरकरण, क्षेत्राण बाला, संबद्धात, कथी, यथा, परंपत करणांकी केन अवती, व्यापुत भारतीय राजकारणाळ संपत्ता बहुकेही अर्थन अर्थनापुर्शकोसे (later-disciplinary) करून अर्थ. एक्सो विकार संस्था विनय पूर्ण मार्थित क राजन विन्ता संबंध इता अर्थक समामातील एक महत्त्वकी सवस्त आहे. बाती जातीच्या जवाबसन त्याजारी सनुसावै व्यवसाय, अग्रांचको निर्माण झाले. बाती जायसाय उत्तव मानंते रोते तर कही क्षेत्रक परसमूचे बरसम हरतम, कही त्याच जनसम्बद्धे करिया विवर्णत स्थानम रोत्माक्ष्मी जाति है आधान विकासमाने अन्तर्गत केली, तो प्राप्ती कारणाताने पानको पानवेशन, सेन्टन, संस्थ, स्वाप्त केला प्रीपाणी जीना जाति पान्त ब्लाकोन्छ पटका, विद्वार नार्थेचे गा साम्र विद्वार कार्ये.

फारतेच शाकारणाः न्यांच प्रयाप जान प्रमाणाः जाणाते तथ कारोची सोवामध्य विषय तो जान जाना प्रयाणाः सावे. सामृत राजकारणात रणामार्जेच्य प्रभाव पार्माच्या प्रमाणात माणवती असे भरी असारे गरी २६ व्यवे १९५৮ रोजी चारतीय राजवादरेची ओवसराजाती ह सम्बद्धाः चारतेव राज्यप्रतेत धर्म विजीवत हा तथा राज्यप्रतेत १९६८ ता ८३ के प्रत्यपुरूवते कशत 'शर्मिशाविता' समाजवाद हे तत्व राष्ट्रभावत आने अन्त हो च्याचीय संस्थाना 'बार्ड धर्म, चंना प्राप्त झान झान झाने आहे.

ब्यालात जिल्लान एकता जो असेन तरी संस्था रहनेत जानी प्रशासीय स्थान बच्चे होग्यानेसा प्रकारियों बळकर होता आहे. प्राचीन काजरराजुन वाली वातान्येया जी प्रधान कामन शुरू असे ते अतत्रारीच्या अर्थुनक काळा से तवाय रिकृतअसे. याना धारतीय समाज ध्यानक करनवार उन्हें.

जारीमार्डे पार्च गारी या तर्शात्रपूर्ण जारीसर भागात विभाग प्रियंतन आफरी मुखे जानत प्रमु करत आहे आने बाराध्ये जारीत.

- 'कार्ड प कारीवार वांचा अभ्याम कार्ण.
- श रहेकारेकेट प्रशास सम्पन्नी
- 2) अर्थान्यस्थान (Vote Bank) का क्षणात
- प्राचीचे गालकाग्य को गालकाग्यात जात व्यंथा अभ्याम करने.
- शानकाता आणि जात एकाव नाग्याच्या दोन पानु करहे.

- च्याची साम्याजीवस पर असती. व्यति वन्योद्यीका आस्तात.
- २) उटलेन्सर अर्था को से दर्ज हरते. त्या बचन का नहीं.
- कालेक्सर सामग्रीसकतर्था त्याती. सम्मतिकस्थान त्याते.
- कार्य प्रश्नीक कार्यक्रिये अधिकार विदर्शको कार्य.
- 📢 मार्चानक अर्थार (प्राचन), विवाह संदेव (रोटे-बंटे व्यवसार)

#### मंत्रोचन पद्धती :

सामा कर मानवार मार्गानन प्रदर्शना अन्य सानवार मानव समाने.

भी माइच संरोधकोशाचे निराह बना अनातन

भारतीय राजकारणातील प्रमुख समस्या । जातीयार एक अञ्चाय वाचे शातीयर करत अस्तात्र प्राचीतामक अञ्चल बेरण अहर. जानी मायानां में निरुद्धे ।

- श्राधिक कर आहेचे कार्य आधार पासाने स्थानिक नाप्ये कार्यक्र करना पाँच निवास क्याने, में क्याने आहे क्याने आहे प्रवास स्वरूपाच्या क्रिक्ता जनीवारावारी सत्त्व बेल्या जातात. कन्यतारी, भारतवातारी यात हे प्रश्नात काल प्रमाणा आहाराता.
- कारमाव स्वातास्थ्या मारीय पहलाह, वरंतु अव्योत्तर वृष्णांक प्रतिकताच निक्षां, समात, स्वातंत्रको काणन चाहते व प्रताति काल होत्र स्ट्रांस, राज्यादरेने प्रायक्षण स्वातंत्र रेकानम १५ (०१) बारान केले आहे.
- जातीत घोरच फोरफा आही भेरभाव वृत्ती हैंनगील हाली. ल्याम्यात सारी स्थल हाति.
- श्री श्रीतिक कार्यना बीवरियक, व्यक्तिक, सामकीय प्रायदे निरातकत मानेचे श्रीतिक निरातक स्थापना निरातक स्यापना निरातक स्थापना निरातक स्थापन स्थाप

जातीबाराचे कायरे किया गुरा :

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राष्ट्रीय राज्य केल्ला का है जाह कार्य जह कार्यन एकार्यन कार्यन कार्यन कर्ता है जार क्रान्टिशंत की जीत Test divinity mark

- े करों में में प्राप्त मोनाफो आहे अक्टाइट मर्था क्राय्य बाहर सेतन्त्र वहीं तील करें, तार पुत्रस ambien week tol etch.
- यह काल ग्रंथित प्रयोग क्या काल कालाई, समाप्त, सार्थात कार्त क्षेत्र प्रम् मान्य पूर्वण अपूर्व आधा With the triangle there are not
- क्षेत्र करोप करोप दोलार, दिल काल, को प्रकारों, करोगक देशनों को प्रकार में; इस गरित.
- थ। बीच को अर्थान केन्स्य को सर्वाल बीचानांत्र प्रिकेट भी पूर्व के जी है जो लिए जीता.
- ५) अर्थ को स्कृति देश केल्पाए को प्रेस्ट स्थान कर की ती. रोजर देखाँ सर्वे हुन्हें
- वर्ग स्वीत प्रश्लेष्यां स्वयं क्या न्यायांत्र अन्यायाः अति स्वयंत्र न्यायाः को स्वयं अनुव अन्यातः
- क्ष करोर नार्य, जनामान बहारे, जिल्लामुक, सम्बोध्य, सर्थन प्रमानमा केले साथित के प्रमान की सामीता जनकर का सर्वे इसर्वे

#### स्थानिक एकाम्यूच कार्यातः

त वर राज्यान प्रत्याम् को कथा विवास और समृत्य प्रीतनेतर्थ देश तकी वालंडान जानते साथ अभिनेत्रों सामान क्षांत्र कार्य कर्य कर्य क्यान क्यान क्यान त्या क्षांत्र कर्य कर्य कर्य क्यान क्यान क्यान क्या क्षत्रे केल्प एवं ६१, तेल्लिक केल पूर्व केल्प परिचार राज्यकोतीर स्था, ब्याव्य स्था, ब्याव्य, व्यार सर्वे, वर्तनुका बारणा व रोवं स्थापा समृद्द सन् पाल्य, जिस्र तेतृ जान्य और रंगे - मेरे बाब्ता तुन अते

मार्थेच गामधीयोगार न्यांत राज्यात हे कार्रियोग को है पहुंचन बात कोई कार्योग को, बाई ह उपकार द्वीवीयात उपनिवास उपन यही अक्टन कर र गर्माका व कार्याद कार हमाँग और एक प्रात्मेक व सम्मानों क्षेत्र के बात, जो किया देश राजांत राज ए जार्ग को राज्य करा नेवार राज्ये का मान्य का कान्य नाम कांच लागा का उन केर मार्थ, बात पहुर कारण केन कर, कारण कारणाई कारणाई कारणा कारण कारण की (Visite) में प्रतिका केरण, प्रान्ता में प्रतिकार में बाह्य एकाष्ट्र (Vide-Bank कारण-अर्थात, राज्योव, राज्योव क्रेम्प्यक कार्यकार प्रथम हान को आधारणी पाना, रामांत्र हेलांक क्रांतिक निर्मा का उस उसकार्य ताल, रामांत्र ब्रांतम्ब्रे तेता. राष्ट्रांत्व वय क्रांत क्रांत का हमीत गोर्च्य किए क्षेत्र, त्यान् विद्यापीय प्रदात च गोर्च्य हमेग्रात पर शोर हमात. इन्यापीत सामान्य (क्यूनिया को नार्य) करोबर्ड गाउँव कराई छन्। बांग हो हो, हे, केर दर्व विकास करा गाउन पान बारास्य क्रियार्थ बार्व क्योंद राज्याचा जाते दान और बात औ

क्षेत्रमते बोहते कर्त बालकेत वर्त व राजधान कर कृत अवक क्षेत्र असे न्यातेत हुमेंत एव संबंध अस्त विकास इंदर करणी होते.

प्राथम ह में के बेर प्राप्त कर के किए का उसते हैं की इंग्लू बाते, के संबंधकों कर के बार के carry larger report, assume 2 months told carry hands went, powers 2 months when the months in Johnson hand, several reference trice hard the belief determine their several philosophical their कारण देशों कर राज्य कार पराय कारणाह गारि राज्यान किये स्थानका कार्य कार्याक के अने कार्याक कारकोचेकान्त्रभव स्थापीर प्रोप्त प्रपार वार्थण अर्थ, प्रश्नात आप वार्थ पाने वार्थ वार्थाप्त स्थाप क्षाप्त क्षा

विकास प्राथमात्रे सक्तेकाणः तः वर राज्यातः अद्योगते द्वानः वर्तते एवंद दाः वर्तानः स्थानः सम्बद्धः त्रिक्षा का नामेश विद्यान् वर्तते व हानों तेतापाद जारता, पानुसीपर जानकोत प्रोतांत पान प्रचेत बताय स्वतंत्रकारों के बाद साले. अंत्रातासाय प्रकार कारणाया, जेवल कार, प्रवास आहे जारी - प्रयास तंत्र त्यार वाल व्याप्त व्यापत विश्वास विश्वास विश्वास

## मानव विकास (Human Development)

ग्रा.डॉ.विट्रल स. जामब सार. प्राथ्मापयः तथा विभाग प्रमुखः,लोकप्रशासनसास्त्रः, कालिकारेयो महाविद्यालय, शिरुर (या.), बीड

प्रस्तावना

मानव निकास, आरोप्य भौतिक प्रयोधरण यातून आविषा, १०मानि र आणि राज्यीय स्थातंत्र्या पर्यंत सर्वे प्रकारस्या मानव पर्यायांना समावीयान करत स्थापनच्या प्रयोगीनपाने विस्तार आणि त्योच्या शिक्षण. असमा संभा-चान वरोवर सक्तमी करणाच्या संधी पद्ये बाह करणारी प्रीक्रमा आहे. हो आहुत नावरे मानाव विकास ही एक स्वापक संक्रत्यमा असून वामणं पालवाच्या एवंगिय कामाचा स्थार महत्त्वाचा आहे. हो गोकल्पना लक्षात धेतांना आपणास हो महंबुध उत्त हक च नोबल कि वेते हो अपन्य रोत योच्या विचारांचा आहावा घेणे क्राम प्राप्त उसते. डो, मेरख्य उन एका प्रणाताम, "मानवास नास्तीत नास्त संधी उपतत्रस म रज्ञासणा या संस्था असम्बद्धा चेळलुरूप चदलता चेणा-या असाव्यात मानवाची रेपळळल ही उत्तम वाडोच्या आकड्यात दिसण्या एवली ज्ञानवृष्टी, उत्तम आहार व आरोग्य सुविधा, सुरक्षित नीयनमान, आसीरिक संदर्भा व मुन्तेमारी पासून सुर्गीक्षतता, फावला बेळ घालवण्याचे समापान, राजकीय व सांस्कृतिक स्वातंत्र्य यात दिसेल, त्याच बरोबर विकासाचा मुख्य उरेश पानवासाठी अशा सामानिक वातावरणाची निर्मिती करणे ज्यास आरोग्य संपन्न य नायिणनपूर्ण जीवन नगता पेईल असा असाया. डॉ.अमरवेसेन मानव विकास संकल्पना मांडतांना म्हणतात की, 'मानव विकास' हा एक असा दृष्टिकोन आहे, ज्यात मानवी नीवनाचा एक भाग असलेल्या अर्थव्यवस्थेच्या विकासापेक्षा तेथील मानवी जीवन वृधीगत, विकसित होणे गरजेचे आहे. संयुक्त राष्ट्रसंघ विकास कार्यक्रमाच्या पहिल्या अहवालानुसार मानव विकास म्हणने लोकांना फिळणाऱ्या संधीचा परीय मोठा करण्याची एक प्रक्रिया होय. मानवाचा कंवळ आर्थिक विकासच नवी, तर त्या सोबतच सामानिक, शैक्षाणक, सनकीय, मानसिक, सांस्कृतिक इत्पादी असा सर्व अंगानी विकास होणे म्हणने 'मानव विकास' होय. मानव विकास

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रोनगर निर्मितीचे लक्ष निर्माति चरणे, रोनगर निर्मितीयर आधारित विकास करणे, सर्व समावेशक विकास बरणे, नवनवीन कौशत्व व शिक्षण पुरव्यिणे, सामृहिक कार्य करणे व बायमार संघटनांना घो साहन देणे इत्यादी बाबी विचारात घेवून धोरणे निश्चित फराववास हवीत उत्तम कार्याच्या निर्धारणासाधै आह्यासात रोजपार निर्मिती व उद्यांग विकास कार्यात गुमक्ता व अधिकार, वामानिक सुरक्षा, जावन व रामान पांच्यातील संवाद हे बार आधार स्तंभ सुचित फरण्यात आले आहेत. या आधार स्तंपाच्या अनुपंताने देश खऱ्या अवनि 'मानव विकास कार्ये ही कांच साध्यकर संबंधा पानव विकासाच्या व्याख्येचा यिजार करता असे भणता येईल की कार्याच्या अनुषंगाने केंद्र व राज्य शासनाच्या समझ धोरणाची रचना करून त्यांची प्रधारी अंपलय नाक्णीची आवश्यकता असेल, न्यामध्ये लोकांना शान्यधी, उत्तम आहार व आरोगा, सुरक्षित जीवनमान, शारीरिक पेरना व वन्द्रेगारीपरस्य सुरक्षितना, प्रत्यका येळ पार्लावकारचे समाधान, राजकीय य सार्कृतिक स्वातंत्र्य समाजात विस्तरमाच जाणीय इत्यादी संधी प्राप्त हा र शक्तील व मानवासाठे असे आपाँचक वातावरण विर्याण है। पदन संक्रम न्यत मानवं आरोग्य संपन्न नीवन व माध्ययानं पापे करन जीवन व्यक्ति करेल

## मानव विकास मिर्देशांक

सर्वे देशास मानव विकास करता झाला आहे. त्याचे एकला प् करण्यामाठी राष्ट्र संपाने (U.N.) पानव विकास विरेतांत व्यव करण्यासानी संस्थात उत्त हक्क गाँस्थाकडे जवाबदारी मानगनी ्यानुसार प्रथम मानवविकास अहवाल १९९० साली प्रवर्तात प्रशास आला. मानव निकस निर्देशीक तथार करण्यासाठी राष्ट्रस्यान वतान तान निका तथार केले.

- १) जन्मतः अपेक्षित आयुर्गेयांदा
- २) पोढ साक्षरता
- ३) दरहोई स्यूल देशांतर्गत वास्तव तस्पादन (लोग रिचम).

## जनातः अपेक्षित आयुगर्यादा :

प्रत्येक देशातील नागरिकांची अपेंसित आयुगार्याता पित माहे. दीर्घावुच्य नागरिक वैयक्तिक जीवनातील जिविच उद्दिष्टे ज्यप्रपाणे पूर्ण करतात त्याचामाणे साष्ट्राच्या विकासात मानवी संसाधने वा भूमिकेतून महत्त्वाचे योगरान देत असतात. व्यक्तिचे दीर्घपुष्य हे त्याचे पालन पोषण, सकस आधार तरोच आरोग्व यावर अवलंबून असते देशाची कर्ती लोकसंच्या देशाच्या आधिक विकासात खेगदान देते व्यक्तिला तच्च दर्जांची गुणवता प्राप्त करन त्यात याह करायपाची तर त्याची अवेक्षित आयुर्वयोदा बादणे आयरचया आहे. असे संकृत राष्ट्राचे यन आहे. त्यावरून हा निकस वा संघटनेने महत्त्वपूर्ण मानला.

) प्रांत साक्षरता :

साक्षर नागरिक राष्ट्राच्या दृष्टीने भूषण पानलं जाते. जे साधरतेच्या संदर्भत आचाडीवर आहेत. त्यांचा विकास नृत्द्यतीने वाला विसंय है प्रजयाची मुलभूत गरम मानली जाते. त्यामुळ पानव विकासाचा मिकाय शिक्षण मानला पाहिले. शिक्षणातून वीजिएक स्टार उंचायती, विचार करण्याची समजा बाहते व विवेधी नाणीरकाँची राजवा यक्षते असे नागरिक राष्ट्र उपारणीत सहधाग देतात. गासाठी सावसता वादणे यान्य विकासासाठी राष्ट्र संपाला आवश्यक वाटते

३) दरहोई वेशांतर्गत स्वृत वास्तव क्यादन :

दरडोई पास्तव उत्पन्न यादणे ही बाच व्यक्तिच्या सहगो पानाचा रतर उंचायणवाची प्रयुक्ती दशीवते. देशांतर्गत स्थून वासाव अपादन वादण्याची प्रक्रिया (त्या मृतर्गत लोकसंख्या वासीची दा क्यी असेल तर) हो नागरिकाना दरडोई वास्तव उत्पन्नत वाह पड्लून भागानं त्यामुळे क्राक्ती पूर्विपेक्षा अधिक संख्येने परन् य गोर्जासा उपयोग पंजन शक्तामा. मानव विकासाचा सिमाय वा दृष्टियोगातन राष्ट्रसंपानं ॥ घटपा-सहत्वपूर्णं मानला अवीत राष्ट्रीय प्रचनना अंता व्यक्तं करतांचा अलेफ अडचणीयर पेतात या अडचणो घर गाणे ब्रह्म मुलमा करणे गुलच जावे या दृष्टिने दरहाँहे रचूल साम्तव sent-एक प्रतिक (Logiritham) विकास वेतला सन्तर्भावन कन्य विकासाच्या विदेशीवरचे विकासम्बद्धाः करणपासाद्यं तीन विकास पर्याल प्रधाण पर विजला नाहे-

- १. जनाव अवेशित अवयोग- ७८ यणे
- ३. फ्रेंग्र गाधरला
- े विक्रीयत देशाच्या उत्त. अमेरिका, विटन ऑस्ट्रेनिया, त्रवेती, नार्व नेहरते, विजडा, स्थोडन, स्थितद्वारलंड सामारने ४८६३ इत्यान के सर्दर प्राप्त पानानी, संबंधित देखातील खरदीश स्त्रीकी पान राणागावन करन त्यांचा पातांक (Log) घेण्यात आला. हे उत्पन्न अस्य देशासाती अधिक गृहीत परण्यात याचे.

पानव विकासचा निदेशांक काहतांना हे तीन निकय एकव कटन आदर्श निरंशांक १००० पृशीत धरण्यात आला. या तुलनेत प्रत्येक देशाचे निर्देशांक कात्रण्यात आले. आदशे पुण निर्देशांक व प्राच्या गुण निर्देशांक वातील फरक हा वंचनेचा निर्देशांक मानला जातो. या निर्देशावतंच्या आधारे १९९७ मधील आह्यालामध्ये राष्ट्रसंवाने जी पाहिती प्रवर्शनत बेली आहे. त्यात पेनटा हा देश सर्व प्रथम असून या देशांच्या HDI चे मूल्य ०.९३२ आहे. दुसऱ्या क्रमांकावर नॉर्ध असून HDI पूल्व ०.९२७ आहे. १७४ देशांच्या वातीत पास्ताचे स्थान १३२ क्रमांकावर असून भारतामाठीच्या HDI मृत्य ०.५४५ इतके आहे. पावरून पारतासाठी वंचनेचा निर्देशांक ०.४५५ चेते. पारतात पानव विकासाची कशी रिवर्त आहे व तुलनत्मकदृष्ट्या नागतिक परिस्थितीत आपण भिती मागे आहोत हे कवटन स्वतात

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यंते.

सस्याम :

मानवांवकास होण्यासाठी प्रत्येक व्यक्तिला आयुष्पात दीर्घायुग्य विळणे, ज्ञान विळणे, सुक्षदायी दर्जदार जीवन प्राप्त होणे. उत्तम रीजगाराची प्राप्ती होणे, शुष्ट हवा, शुद्ध पाणी मिळणे, चांगत्या आसोग्याची प्राप्ती हूं गोण्टी आवस्यक असतात. ह्या बार्बीचं संख्यात्मक पोजमाप करण नहीं अवधड असले तरी वर्तील काही घटकांच संख्यात्मक मोनगाप पानच विकास निर्देशांक बाहारे फेल नात स्थूल राष्ट्रीय उत्पादनानं (GNP) मापन पेशामध्ये केलं जात, परंतु देशाची सामाजिक, आर्थिक प्रगती पोजण्यासाठी अस काही साधन उलका नाही. आयुर्गयोदा ही वर्णापध्ये पोजली जाते. प्रोड साधरता ही प्रोडांच्या एकुण संख्येच्या रक्कवारीत पोजली जाते. हा निर्देशकोना एका समान मापात कराकाच मोजापचं ? मानव विकास निरंशामांच्या साहव्याने हे पापन केलं जातं. पानव विकास निरंशांकामुळे आर्थिक प्रगती (GNP) आणि सामाजिक प्रगती (PQLI) एकवित मोजणे शक्य होते. सा दोन्ही बांधी परस्परपुरक आहेत व हातात पन घालून पुढे नातात. न्यून विकासित देशांनी त्यांच्या सद्यस्थितीतील विकासाच्या अयस्थेत मानवी विकाससम्बद्धी दर डोई तत्पात्राच्या वाहीला प्राप्तान्य दिलेच पाहिले पण त्याच वरोदर समार्गनक संवामध्ये सुगरण बन्नणसाते सार्वनिक खर्रात्या पहरतीमध्ये परल घडवन आणला पहिले, त्यापूळे मानारी भीवनाच्या मुणवत्तत वाह होते. शंबरो असे मुणावे नागेल को पानप विकास, मानव किठाम निरंशीत पास्तीन आयुपान, प्रीट मासरता. दरडोहं उत्पन्न, या धर्मचरच उत्तम रोजगार, भारोग्य, हवा, पाणी इ. गोध्टी महस्याच्या आहेत. वरील सहं विरत्नेक्णावरन चालील शिकारशी दिलेल्या आहत

## शिफारशी

- र। शिक्षण हे संविधान मृत्यांवर आधारित मोपत व समर्शाच करणे गर नेचे आहे. त्यामुळे निश्चितच मानव विकास दिस्त पेईल.
- २) मानम विकासासाठी सरकारणे रॉनगार निर्मितीचे तक निर्धारीत करन ती पूर्ण करणे गरनेचे आहे.
- ३) शासनाची घोरणे देशांतर्गत अपप्रवादीच्या दृग्दीने गुलभ असणे आवश्यक आहे.
- ४) सर्व समावेशक विकासाचे ध्येय आखणे व आंपलात आणणे.
- ५) देशाने मानव विकास निर्देशांकात उज्वतर अशी बाद करणे महत्त्वाचे आहे. संदर्भ सूची :-
  - १) आधिक विकास व नियोजन झॅ.चिश्वास कदम
  - २) विकास व पर्यावरणाचे अर्थशास्य डॉ. विन्वास कदम
  - ३) लोकसंख्या आणि विपास डॉ.विश्वास कदम
  - a) https://www.zigya.com
  - v) maharashtra times in diatimes com

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## अल्पसंख्याक व मानव अधिकार

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प्रस्तावना :-

भारतीय सीवधानचे शिल्पकार डो.बाबासाहेब आंबेडकर आहेत, हे युगसत्व आहे. सीवधान निर्मितीच्या आधी विविध सीमत्या स्थापन झाल्या होत्या. त्वारेकी 'मायनीरिटी राईटस कमिटी' ही एक महत्वपूर्ण सीमती होती. घटना सीमतीन मायनीरिटी राईटस कमिटीचा अहवाल सादर झाला. त्याराओं अल्पसंख्याकांच्या नेत्वांची हच्छा आंकाहत व्यक्त केल्ला होत्या. डो.आंबेडकरांनी आपल्या निवेदनात अनुस्थित जातीना विभक्त मतदार संख्यो मागणी केली होती. अल्पसंख्याकांचा विभक्ता मतदार संख देण्याकदल्ल अतिसाय कडवट प्रतिक्रिया व्यक्त हाली. मृलभूत हक्कांचा होरे अल्पसंख्याकांचा पूरेसे संरक्षण हिले गेले आहे. असा सूर घटना समितीने लावला होता. घटना समितीने मृलभूत हक्कांचा संवध नसा अल्पसंख्याकांची देवला तसा सर्व सामान्य नागरिकांची देवला अल्पख्याकांच्या मेंगचांची विल्हेबाट लावली. याला डो.बाबासाहेब आंबेडकर काही अंशी अपजद होते, असे मुणता येवल घटना समितीमध्ये घटना वनिक्चाचे कार्य सूरु असतांना अनेक सदस्यांनी 'अल्पसंख्याक' या शब्दाखराखा भयंकर शह्न होते की, 'अल्पसंख्याकांचीच बहुसंख्याकांवरच अन्याव केलेला आहे. श्री अनेत शयमा अव्यक्त केल्या आवता व्यक्त केल्या नेत्वाच मावला होते. असे मुणता येवला मावला व्यक्त केल्या आपले वंगळेपण व्यक्त केल्याने, विक्विसत केल्याने या निर्मीतीसिटी भयकर घटना घटनी, त्यापुळे भारतीय मूरलीम आणि मुस्लीमेत्तर अल्पसंख्याक मितीयत झाल होते. सरदार पटेलांची विभवत मतदार संच मागण्यावर जो प्रखर हल्ला चढविला, त्याला प्रायुत्तर देण्यासाठी कोणत्वाच अल्पसंख्य अमातीचा नेता पुढे आला नवता. अल्पसंख्याकांवर झालल्ला धर्मड मानीसक दवाबाचा कायदा बहुसंख्याकांना ह्याला, अनुस्थित नाती, जमातीका व्यातीरिवत हातर श्रूपसंख्याकांता त्यांची पूर्वी काल्ला संवलतीही मिळाल्या महित. अनुस्थित नाती, जमातीखा माना होता संवलतीही मिळाल्या नातीतिका सामाना आवता सामाना आवेडकरानाच छाले लागील.

र्जिहरू :- बुधित्य अल्पालांक म्हणून भारतीय सर्विधानात तरमूह अमुनही योग्य लाग संबंधीत बुधीय अल्पसंख्यांक समाजास भेटलें नातीत त्याचा विश्लेषणालाक आदाया गेगे

संशोधन पद्धती :- या हो। निवंधाचा वितार पुनरावानोकत व पुनिवरतेषणात्मक असन्ताने या बाँध निवंधासाठी लेखनासाठी ऐतिहासिक संशोधनातील संदर्भ पद्धतीचा वापर करन हो। निवंधाचे लिखान करण्यांत आले आहे

भारतीय संविधान आणि बृधीष्ट अत्यसंख्याक :-

हां.बाबासाहेब आंबेडकरांनी ४ नीव्हेंबर १९४८ रोजी सीवधानाम मसुदा सीवधान समेला सादर करतांना ते भाषण फेले, त्यामध्ये अल्पसंख्याकांच्या प्रश्नान चर्चा केली हो आंबेडकर म्हणाले "अल्पसंख्याकासाठी केलेला सम्बद्धतीच्या तरतुदीमुळे मसुदा सीवधानावर टीका करण्यात चेत आहे. यासाठी मसुदा सीवधानावर नाही. हिष्धान सभेने घेतलेल्या निर्णयाची तो अंमलबजावणी करते. माझ्या दृष्टीने अल्पसंख्याकांना सवलती देण्याचा सीवधान सभेने घेतलेला निर्णय जो इथे कृतीत आणाला आहे. तो शब्द समुहाचा आहे. यासरदृत्व माझ्या मनात संदेह नाही.

या देशात अल्पांत्र्य आणि गहुमंत्र्य या होयांनीही पुकीया मार्ग अनुसत्ता आहे. अल्पांत्र्याकांचे अस्तित्व नाकारणे ही बहुसंख्याकाची चूक आहे. अल्पांत्र्याकानी स्वत हाथे अल्पांत्र्याच गोजारणे व त्याला चिरस्वायी स्वत्य देण्याचा प्रयत्न करणे हे सुध्दा तेवहेच चुकीचे आहे. दुहेरी हेतू साध्य होईल असा उपाय शोपणे अल्पांत्र्याक आहे. सुस्वात म्हणून त्यात अल्पासंख्याकांचे अस्तित्व मान्य करायला हवे असाही प्रयंत व्हावा की, न्यापुळे बहुसंख्याक आणि अल्पासंख्याक एक्षणा एक दिवस एकजीव होणे शक्य होईल. संविधान समेने सुचिवलेल्या उपायांचे स्वागत आले पहिने कारण या उपायामुळे वहरी हेतू साध्य होतो.

बहुसंख्याकांचे पोरण राष्ट्रीयवादी दृष्टीनेच विचार झाला पाडीने. ज्या दिवशी बहुसंख्याक लोक अल्पसंख्याकांच्या भावना आलिपतेने समजून पेतील त्या दिवशी या देशात- काय परिवर्तन होईल, हे व्यवत करण्यासाठी हो. बाबसाहेब आंबेडकर म्हणतात, ही बहुसंख्याक मुलतः रानकीय नसून जातीयवादी आहे, जशा जातीयवादी बहुसंख्याकांचे राज्य अल्पसंख्याकांनी निष्टेने स्विकारले आहे. म्हणून अल्पसंख्याकांच्या प्रति भेदभाव न करणे हे आपले कर्तव्य काहे, त्याची जाणीय बहुसंख्यकांनी ठेवावी. अल्पसंख्याकांच्या विरोधात भेदभाव करण्याची सवय बहुसंख्याक ज्या हाणी सोडतील त्या हाणी अल्पसंख्याक अस्तित्वात राहण्याचे बारण उरणार नाही व ते एकजीव होतील.

मुचीष्ट अल्पसंख्याक :-

डॉ. आंबेडकरांचा मते या देशातील अल्पसंख्याकांच्या प्रीत बहुसंख्याक कशी वागणूक करतात यावरच अल्पसंख्यांकाचे अस्तित्व विसंवृत आहे.त्यासाठी बहुसंख्यांक आणि अल्पसंख्याक या दोघांनी ही राष्ट्रीय दृष्टिकोणातून विचार कराया, अल्पसंख्याकाच्या विरोधातील भेदमाव ज्या क्षणी बहुसंख्यांक सोडतील त्याक्षणी अल्पसंख्याच या देशातून नष्ट होईल. हा हितोपदेन योनी महाच्या हिताचा आहे. अशा प्रकारचे डॉ. बाबासाहेब आंबेडकरांचे राष्ट्रीय विचार ऐकृत संविधान सभेचे सदस्य आणि प्रमुख समितीचे सहकारी या सर्वानी

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हो बाबासहेर संबेहकरावर अधिनंदनाचा वर्षाव केला होता. सबीना त्यांची भ्वतकंठाने प्रशंसा केली होती. तेव्हा सर्वाप्रीत कृतकता व्यकत करण्यासाठी हो आंग्रेडकर सविधान समेच्या समारोपीय भागगात म्हणातात.

"सोंचपान समेत येतांना अनुसूचित नातींच्या हित संबंधाचे संरक्षण करण्यापलीकडं माझी दुसरी आकांका नव्हती. यापेका अधिक नवाबदारीचे कार्य करण्यासाठी मला आमंत्रित करण्यात वेदेश याची पुसदशो सुध्या कल्पना मला नव्हती. समेने मसुदा सामितीने तिच्या अध्यक्षपदी माझी नियह फेली. तेंका तर माझ्या अञ्चर्णाला पारालार उरला नाही. मसुदा समिलीत माझे मित्र सर अल्लादी कृष्णास्थामी अयर पांच्या सारखो माइयापेक्षा अधिक मोठी, घोगानी आणि अधिक गोग्य माणसे होती. माइयावर इतका विश्वास व्यक्त करून आणि जनाबदारी सोपवृत त्यांनी माझी निवड फेली आणि देशाची सेवा करण्याची मला संघी दिली वासाठी मी संविधान समा आणि पस्तुदा समिलीच्या प्रति कृतसता व्यक्त करतो."

"पटना तयार करतांना कांग्रेसने अल्पसंख्याकांच्या राजकीय पीवतव्याचा विचार करण्यासाठी नेमलेल्या सांगतींची सभा ज्या दिवशो होतो त्याचा आदल्या दिवशी मो मौलाना आहाद पांना भेटलो व त्यांना अल्पसंख्याकांच्या सर्व प्रश्तांची व मीवतव्याची इत्यंभूत कल्पना करून हिस्सी. पण मौलाना दुस-या दिवशी सभेत हजर न राहता निधृत गेले. मुसलमान बंधू तद्वत् इतर अल्पसंख्याकांचा प्रश्न माङ्या शिवाय तिये कुणी मोड् शकला नाही आणि मी आपल्या वतीने एकटाच असल्यामुळे पंडीत मेहरुंनी मुसलमानाना राखीय जागा देणवाच्या स्वनीला कोग्रेसच्या बतीने विरोध केला व त्यामुळे आपण समयोग हण्काना मुकलात.

सार्वजनिक धोरण व बृध्दिष्ट अल्पसंख्यांक :-

डो. याबासाहेय आंग्रेडकरांनी सीवयान परिचरत अत्यातांच्याकांचा विचार आग्रहपूर्वक मांहला लोकशाहीच्या कामानाजासाठी कार महत्वाची वाच महत्वाचे लोकराहीच्या नवावर बहुमतवाह्यांनी आन्यपत वात्यांवर जुलूम करता कामा तथे. बहुमतवाले जरी सतेवर आले तरी अल्प मतवाल्यांना सुरक्षितवा चाटली पहिले हे जर घडले नाही तर लोक्शाहीचा पतर मोटा घोका निर्माण होईल, ही भावना व्यक्त मरताना हो. मोबेडफर मणाति अपन साजय आफ्रिकतीन अन्याया संतेषी बोलत आहेत. मी खास्त्रीय काही येळेला या गोध्टीचे आश्चर्य करतो को, विलिनोकरण व सन्य गोद्धीच्या विरोधात बोलणा या आपणासारख्या लोकांकडे प्राचेक खेडमात साठाय आफिला नातो कतम ? आपल्या प्राचेक खेडमात साताव आधिकका आहे आणि असे देखील एखादा सवर्ण नातीतील माणूस बर्गीकृत धर्माची शमरण घेऊन लढ़तांना मला वर्जाचनच दिसतो. येथे असे का पहले? कारण येथे लीवानिष्ठा नाहो. '' भी व्यक्ति बहुमत वाल्यांचा माला देश पाच एका विश्वासको गृरमहसेला आहे". वर असा पण्डलीच्या गोप्टी चडल्या सर अन्यापाळाली चिरङ्ख्या नाणाऱ्या अल्पसंक्रतकोना अन्यापाचे विकारण करण्याच्या रेतुसाटी इसरीच्या पासून भटत पिळणार नाही गांच गीन्टीमुळे लोकशाही घोक्यात आण्णपारी बंडाची मनोक्सी साजासला.

सारांस :- डॉ.बाबासहेब आंबेडकर यांच्या प्रेरणेने जो भारतीय बोध्र समान आहे, त्यांनी स्थाध्या विकासासाठी अनुसुधित जाती बोध्द को धार्मिक आत्पसंख्याक बोध्द यापैको कोणता पर्यात रिल्डाला पर्याची संदर्धन करून बोसा तो निर्माय घेले, ठा उद्देश आहे. अनुसूचित नाती : बीच्द आणि पार्मिक अस्पसंख्याक बीच्द या धानते मागोडारे विकास सापता येली. दोन्ही भीच्टी सविधानांतरोत आहेत. तरीपण बौध्यांच्या अस्मितेसाती आणि स्वामततासाठी कोलाचा मार्गाचे अनुसाण करावें, हया प्रश्नाचे योग्य उत्तर शोधपयापर्यंत ही संशोधन प्रक्रिया आसंसो आहे.

डो. अब्रिडकरांनी बौध्द धर्मांची दिला दिली ती जातिवतेचा प्रजंध केषळ दलोतांबरीत पिटविण्यासाठी नाही. तर संपूर्ण मानव त्यासाठी त्यांनी 'ऑनिहिलेशन ऑफ कास्ट' हा ग्रंथ लिहिला, गातीच्या नावावा नातीवरील जातियतेचा कलंक मिटविषयासाठी सबलती धेणे, हा काही काळासाठी तहलोडीचा भाग अस् राकतो, परमु तो नेहामीताठी मही. हां. बाबासहेब आंबेडकरांनी १९५६ तहलोड स्थाना मान्य नव्हती. कारण जात आणि कोव्द धम्म हे समीकरणय होता शकत लाही. भारत सरकारने १९९० पर्यंत बीव्हांना सवलती दिल्या नाही. त्यांनी फक्त अनुसूचित जातीच्या लोकांना सवलती दिल्या त्यामुळे १९९० पर्यंत अनुसूचित जातीच्या लोकांना बोध्दच होऊ दिले नाही आणि ने बीध्द झाले त्यांना सवलती पासून वीचत ठेवण्यात आले. १९९० साली अनुसृध्ित नातीसोवत बीध्द नाव जाहरों गेले. त्याचेठी कारण अगरी स्पष्ट आहे. भारतीय सीवधानाच्या अनुच्छेर २५ नुसार अनुस्चित जाती आणि बौध्द म्हणजेच हिंदू होत कारण हिंदू या शब्दांतर्गत बीध्द शब्द आला आहे. 'बीध्द' हा हिंदू धर्मांचा एक पंथ आहे, असे रमध्दीकरण केले जाते.

डॉ. बाबासाहेब ऑबेडकरांनी प्रतिज्ञा केली होती, भी हिंदू म्हणून जन्माला आली तरी हिंदू म्हणून मरणार नाही. बाबासाहेबांनी सी प्रतिज्ञा पूर्ण केली. बौध्द झाल्यानंतर त्यांनी शेडपुल कास्ट फेडरेशनचे सदस्य पद सुध्दा त्यागले. परंतु त्यांची जनता बौध्द होऊनही जवळपास अर्थ सतक अनुस्थित जाती बीधः म्हणून जगत आहे. साबासाहेबांचे अनुपायी बीधः पर्माची दिला घेऊनही अनुस्थित जातीच्या कोपातून बाहेर पहले नाहीत. तेव्हा यासंबंधी पुनविचार करण्याची गरण आहे. अरूपसंख्यांक आयोगाने बौध्यांच्या विकासाच्या काही योगना आग्रहतेत्या आहेत. त्याचा परिचय आपण गेल्या काही प्रकरणात करून घेतला आहे. तसेच त्या योजनांचे कार्यान्वयन योग्यप्रकारे होते की नाही यांचेही सन्यनिहाय सर्वेसण झालेले आहे. अनेक राज्यात बोध्दांची संख्या नसल्यामुळे त्या सर्वेक्षणाचा आणि समितीच्या शिकारशीचा काहोती उपयोग होत नाही. अल्पसंख्याकांच्या नावाखाली मुस्लिमांनी सवातती आपस्या परशे पाइन घेतत्या जीका तो संवितती बोध्यांना अल्पसंख्याकाच्या नावाखालो आपल्या प्रदर्श पाडून धेता येतील त्यासाठो बोम्हांची संख्या वादविणे आयरणके महि. क्रोहांच्या पाडत्या संस्थेवर त्यांचा विकास व यत्र निर्भर आहे.

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अल्पसंख्यांक घोरणात संधांचा प्रकर्षाने विचार करन त्यांना सोध्द अल्प संख्याकांच्या समतती भिळावलाच राज्यात.

भारतीय संविधानात अत्यसंख्यांक सुध्यीष्ट यांना सर्व सळलती दिल्या आहेल घण गेल्या फास वर्षात स्वा वर्षापर्यंत या सोवी (5 3) सुविधांचा प्रचार- प्रसार होवु शकला नाही.

सार्वजनिक धोरण काखानि संविधानाने बृध्दीण्ट अल्पसंख्याक घटकास प्रथम प्राधान्य द्याचे. असे कलमान नमूद केले आहे. सरी त्याची अंमलबजावणी होतांना दिसत नाही.

संदर्भ सुची :-

१ जानेवारी २०११, पृष्ठ क.२६, २७, हों. धनरान डाहाट बीध शार्मिक अस्पसंख्याक, संवेज प्रकाशन नागपुर प्रयागावृती (5 38,04,79,38

अनुवाद : प्रा.चोडेश्वर रेविश्वस, संविधान सभा डिबेटस (मराठी संस्करण), सहंट धिक्तर्स, पव्लिकेशन आणि डावयुमेन्टेशन,

प्रा.लि.सागपुर प्रश्नःसंस्काण २०१३, पृथ्व का ४९८,५७७.

संपादक - डॉ. धनरान हाहाट, डॉ.बाबासाहेब ऑबेहकर भावणे आणि विचार, खंड-५ (संविधान), संकेत प्रकाशन, नागपुर, दि मा ६ दिसंबर २०११, पृष्ठ के.४४

जयदेव गावकवाड, संविपान सभेत डॉ. अविडका, पदम्पीया प्रकाशन पूर्ण, स्.आ. १५ वानवारी २००८. पृष्ट के ६०,६१.

हों ही आर. जाधन, भारतीय समाज एंव संविधान, समता साहीता शदन जमपुर, हि.सं. १९९२, पृथ्ठ झे.७,१९.



## लोकसंख्या शिक्षण एक प्रशासकीय अध्ययन

प्रा.हॉ.विठुल स. जाधव, सहाःप्राःतथा विभाग प्रमुख, लोकप्रशासन शास्त्र कालिका देवी महाविद्यालय, शिरुर (का.),बीड.४१३२४९

#### प्रस्तावना:

भारतात प्राचीन काळी लोकसंख्ये संबंधी आकडेवारी मिळविण्याचे अनेक प्रयत्न केले गेलेत. समाजातील लोकसंख्या विषयक, आर्थिक व रोती विषयक बार्बीची गिनती कशी करावी यांचे विवेचन ख्रिस्त पूर्व ३९९ ते २६९ या कालावधीत कौठिल्याने लिहीलेल्या अर्थशास्त्र या ग्रंथात केले आहे. सम्राट अकबराने 'एने अकबरी' या प्रशासकीय अहवालात लोकसंख्या, लोकांचे व्यवहार, लोक, संपत्ती, यांची आकडेवारी गोळा करण्याचा प्रयत्न केला आहे. आधुनिक भारताच्या कालखंडात डॉ. ऑबेडकर यांनी लोक संख्या विषयक ठराव मांडुन लोकसंख्या नियंत्रणा विषयी विवेचन केल्याचे आढळते.

नगाच्या लोकसंख्येत सातत्याने वाढ होत आहे. तथापि अविकसित देशाच्या लोकसंख्येत विशेष मोठया प्रमाणावर जलद वाढ होत आहे. भारतासारख्या वाढीचा गंभीर प्रश्न निर्माण झाला आहे. ११ में २००० रोजी भारताची लोकसंख्या शंभर कोटी झाल्याची नोंद आहे. लोक समुहाची संख्या मर्यादीत ठेवली तरच लोकसंख्येचा गुणात्मक दर्जा वाढतो. राहणीमान सुधारते एकुणच आर्थिक विकासाला चालना मिळते हा विचार अलिकडच्या काळात प्रवल झालेला आहे. त्यामुळे जननदर करणे हा लोकसंख्या शिक्षणाचा महत्वाचा भाग आहे. लोकसंख्याशास्त्रात लोकसंख्येच्या आकारणानात घडवुन आणणाऱ्या घटकांशिवाय सामाजिक, राजकिय, जीवक व भौगोलिक इ. घटकांचाही अभ्यास केला जाती.

आपल्या देशाला भेडसावत असलेल्या लोकसंख्या वाढीच्या संकटाशी यशस्वीरित्या मुकाबला करण्यासाठी लोकसंख्या शिक्षणाचा पाठपुरावा करणे गरजेचे आहे. चाचंड लोकसंख्येतुन निर्माण झालेल्या तसेच होऊ धातलेल्या सध्याच्या भीषण परिस्थितीशी सामना देण्यासाठी आपण काय केले पाहिजे याची जाणीय करून देणारे शिक्षण म्हणजे लोकसंख्या शिक्षण होयछ. लोकसंख्या शिक्षणाची उद्दिष्टये ही पढीप्रमाणे सांगात येतील उदा. लोकसंख्येचे परिणाम व रचना या संबंधी विद्यार्थ्यांना माहिती करून देणे लोकसंख्या व साधन संपत्ती यांचा मेळ घेतला गेला नाही तर जीवनमान खालावते याची विद्यार्थ्यांना जाणीव करून देणे. खनिज संपत्तीच्या साठ्यावरील मर्यादा स्पष्ट करुन त्यांचा काटकसरीने वापर करण्याची आवश्यकता स्पष्ट करणे, लोकसंख्या वाढीवरोबरच सामाजिक गरजा वाढतात आणि वाढत्या गरजा भागविण्यासाठी आर्थिक व औद्योगिक प्रगती आवश्यक असते. याचे ज्ञान विद्यार्थ्यांना करून देणें, लोकसंख्या आणि विकासाची प्रक्रिया यांच्यातील परस्पर संबंध स्पष्ट करणे, सुखी व निरोगी जीवनासाठी योग्य निवारा, स्वच्छ परिसर, स्बच्छ कपडे व समतोल यांची आवश्यकता स्पष्ट करते. आजच्या विद्यार्थ्यांमधुन कर्तव्य, तत्पर प्रामाणिक व

Power of Knowledge Veer Review Journal, Volumerl, IssuerIII Oct. to Dec. 2020 ISSN 2320-4434 Impact factor 2.7286 निःस्वार्थी नागरिक निर्माण कावेत या दृष्टीकोनातुन विद्याध्योमधील प्रमाणिकपणा सेवाभाव, कर्तव्य, तत्परता, निस्वार्थीपणा इत्यादी गुणांचा विकास साधने, मानवाचा पर्यावरणाशी असलेला संबंध स्पष्ट करणे. पर्यावरण असमतोल राखण्यासाठी वनस्पती, वन्य पशु, पक्षी यांची असलेली आवश्यकता स्पष्ट करणे, विद्यार्थ्यांना प्रदुषणाच्या धोक्याची माहिती करुन देणे, त्यांच्यामध्ये वृक्षारोपण, वृक्षसंगोपन व वृक्ष संरक्षण या गोटीची आवड निर्माण करणे.

संशोधनाची गरज :

लोकसंख्या शिक्षणाच्या संशोधनाची गरज लक्षात घेता असे दिसुन येते की, मानवाच्या एकंदर विकासात लोकसंख्या व लोकसंख्या शिक्षणाची भूमिका अत्यंत महत्वाची असल्याचे दिसुन येते.

संशोधनाहारे लोकसंख्या, जननदर, लोकसंख्या नियोजन, साधनसमग्री, मुलमुत गरजा, राहणीमान दर्जा, सामाजिक, आर्थिक, सांस्कृतिक, राजकीय, प्रशासकीय, शैक्षणिक इत्यादी विकास करावयाचा असेल तर लोकसंख्या नियंत्रण व लोकसंख्या शिक्षण ही काळाची गरज असल्याचे दिसुन येते. त्याद्वारे आपणास सर्व क्षेत्रात संशोधन करुन लोकसंख्या शिक्षणाद्वारे साध्य केलेली उद्दिष्टये कितपत साध्य झाले याचे विवेचन करणे सोपे जाईल. म्हणून या लोकसंख्या शिक्षणाद्वारे साध्य झालेली उद्दिष्टये किती प्रमाणात साध्य झाली यासाठी आपणास संशोधनाची गरज असल्याचे दिसून येते.

लोकसंख्या वाह आणि जीवनमान यांचा घनिष्ठ संबंध असल्यामुळे आपल्या देशातील जीवनमान उंचावण्यासाठी लोकसंख्या बाढीला आळा घालणे आवश्यक या भावनेतुन लोकसंख्या शिक्षणाची गरज निर्माण होते.

- * लोकसंख्या बाडीमुळे निर्माण झालेल्या समस्यांची जाणीव करुन देण्याची परज.
- * अज्ञान, अंधश्रध्दा आणि अयोग्य रुढी यांचे समागातून उच्चटन करण्यासाठी.
- आपल्या देशाची प्रगती योग्य वेळेत साधण्यासाही.
- कुटुंबनियोजनाचे महत्व लोकांना पटवुन देण्यासाठी.
- * नैसर्गिक संपत्तीचा, वस्तुंचा अयोग्य आणि वेगाने होगारा नाश थांबविण्यासाठी
- * लोकांचे जीवनमान उंचावण्यासाठी
- * लोकसंख्या वाढीपेक्षा गुणात्मक वाढीला महत्व आहे, की जाणीव होण्यासाठी,
- * पर्यावरणात योग्य समतोल राखण्यासंबंधी जाणीव.

लोकसंख्या शिक्षणाचे ज्ञान देणे आवश्यक आहे. कारण स्वतःसाठी सोयिस्कर व राष्ट्राच्या हिताचे निर्णय घेणे त्यांना शक्य व्हावे त्याचप्रमाणे १४ वर्ष वयापर्यंत आपल्या देशात एकंदर ४०% लोकसंख्या असुन ही मुले १०-१२ वर्षांनी विवाह करुन लोकसंख्यातील भर घालतील म्हणुन लोकसंख्या शिक्षणाची मुल्य मुलांच्या मनावर विंबविण्याचा प्रयत्न होणे आवश्यक आहे. लोकसंख्या शिक्षणांमुळे अशा स्वरुपाच्या समस्या हाताळण्यास मदत होवु शकेल आबाल हाताळण्यास मदत होवु शकेल आबाल वृध्दांना लोकसंख्या शिक्षणाची जाण व्हावी म्हणुन लोकसंख्या शिक्षणाची गरज आहे.

Power of Knowledge Peer Review Journal, Volume: I, Issue: III Oct. 10 Dec. 2020 ISSN 2320-4494 Impact factor 2.72.86 सर्जन लोकांचे जीवनमान उंचावणे व उपलब्ध मनुष्यबळाची कार्यक्षमता वाढविणे या गोष्टी लोकसंख्या शिक्षणात समाविष्ट होत असल्यामुळे हे शिक्षण सर्वस्पर्शी आहे.

अर्थ:- लोकसंख्या शिक्षण या शब्दाचा अर्थ सर्वप्रथम स्पष्ट करण्याचे श्रेय कोलंबिया विद्यापीठाच्या अध्यापकः महाविद्यालयातील प्रोफेसर स्लोन आर.वेलांड यांच्याकडे जाते त्यांच्या मते, लोकसंख्या शिक्षण हे लैंगिक शिक्षण किंवा कौटुंबिक शिक्षणापेक्षा निराळे आहे.

व्याख्या :-

१. बेरेलसन यांच्या मते, च्लोकसंख्या शिक्षणाद्वारे शिक्षक आणि विद्यार्थ्यांमध्ये लोकसंख्या विषयी जागृकता, विवेक, अर्थज्ञान विकसित करता येते. त्याचबरोबर कौटुंबिक जीवन प्रजनन आणि मुलभूत मुल्याचे सुध्दा ज्ञान करून देता येते.

## समजापरिवर्तन आणि शिक्षण :-

रिक्षण हे समान परिवर्तनाचे एक प्रभावी साधन आहे. समानातील अनेक रुढी व परंपरा, अज्ञाल व अंध्रप्रध्य काठुन टाकण्यासाठी शिक्षणाचीच आवश्यकता असते. शिक्षणाद्वारे समानातील वाईट सबयी, अनिष्ट प्रथा काढुन टाकावयाच्या असतात चांगल्या सवयी जोपासयाच्या असतात. नवसमान निर्मितीला आवश्यक अशी मुल्ये, विचार व सवयी यांचे आरोपण करुन नवी पिढी घडविण्याचे कार्य शिक्षणच प्रभावीपणे करु शकते देशाच्या विकासाला हातभार लावतील अशा तन्हेच्या जाणिवा, अभिवृत्ती, चिकित्सक दृष्टीकोण व कोशल्ये तरुण पिढीला शिक्षणातुनच प्राप्त करुन दिली पाहिजेत.

## लोकसंख्या शिक्षणातुन साघावयाच्या गोच्टी :-

आजचा नागरिक हा उद्याच्या जीवनाचा शिल्पकार असतो. देशाच्या प्रगतीची भावी दिशा आणि समाजजीवनाची गुणवत्ता ही त्यांच्या कार्यावर आधारलेली असते. परिवर्तनाला आवश्यक च पुरक अशी वैचारिक पार्श्वभूमी निर्माण करण्याचे कार्य त्यास करावयाचे असते. लोकसंख्येची समस्या सोडविण्या बाबत प्रत्येक नागरिकास स्वरुपाचे कार्य करावयाचे आहे. प्रत्येकाने समाजिक जबाबदारीची जाणीव करुन घेउन एक जबाबदार नागरिक बनायचे आहे. प्रत्येक नागरिकामध्ये स्वतःच्या कुटुंबाच्या आधाराविषयी, स्वतःसाठी योग्य आणि समाजासाठी हितकारक निर्णय घेण्याची क्षमता निर्णय द्यावयास पाहिजे.

## लोकसंख्या शिक्षणविषयक नागरिकांचा दृष्टीकोण :-

लोकसंख्या समस्येची जाणीव निर्माण करण्यात आणि लोकसंख्या धोरणाच्या संदर्भात दृष्टीवृत्ती विकिसत करण्यात भारतीय नागरिकांना महत्वाची भुमिका बजावयाची आहे. त्यासाठी प्रथम त्याला या बाबतीत जाणीव झाली पाहिजे व त्याच्यामध्ये योग्य त्या वृत्ती निर्माण झाल्या पाहिजेत. त्यांच्या मनात लोकसंख्या शिक्षणाची संकल्पना स्पष्ट असली पाहिजे. लोकसंख्या शिक्षणाची उद्दिष्टये त्याच्या डोळयासमोर ठेवली पाहिजेत. ती अधिक समृध्य करण्यात प्रयत्न केला पाहिजे व्यक्ती, कुटुंब व समाज दवाव कसा परिणाम करतो हे त्याला स्पष्ट माहित असले पाहिजे. लोकसंख्येची गतिमानता लोकसंख्येची रचना, लोकसंख्या

बाढीची कारणे, सामाजिक, सांस्कृतिक व आर्थिक समस्या यांचे सम्यक ज्ञान प्रत्येक नागरिकाने आत्मसात केले पाहिजे. माहित असले पाहिजे. लोकसंख्येची गतिमानता लोकसंख्येची रचना, लोकसंख्या वाढीची कारणे, सामाजिक, सांस्कृतिक व आर्थिक समस्या यांचे सम्यक ज्ञान प्रत्येक नागरिकाने आत्मसात केले पाहिजे.

नागरिक हा परंपरावादी व स्थितीशील वृत्तीचा असता कामा नये. इच्ट परिवर्तनाला तो सदैव उत्सूक असला पाहिजे. नवे ज्ञान, नवे विचार, नवी मुल्य यांचा स्विकार करण्याच्या बाबतील त्याने उत्सुकता दाखवली पाहिजे शिक्षणात समाज बदलण्याचे घडविण्याचे समर्थ आहे. यावर त्याचा दाट विश्वास असला पाहिजे. प्रत्येक नागरीकचा लोकसंख्या विषयक दृष्टीकोन तयार होण्यासाठी महाराष्ट्र राज्य आरोग्य शिक्षण विभाग महाराष्ट्र राज्य शैक्षणिक संशोधन व प्रशिक्षण परिषद पुणे यांच्या संयुक्त उपक्रमातृन तयार झालेल्या जाणीव पत्रिकेतील खाली नमुद केलेल्या गोष्टी प्रत्येकाने करावयास पाहिजेत.

- १. देशाची साधनसंपत्ती वाढवु आणि असलेल्या साधनसंपत्तीचा काटकसरीने उपयोग करत.
- २. शासनाला त्यांच्या कामात मदत करत.
- ३. प्रदुषणाला आळाघालण्यासाठी आणि पर्यावरणाचा समतोल राखण्यासाठी रोपटी लाव ती जगव वनराई वाढवु, घरात, शाळेत परस बाग तथार करु वाढलेली झाड तोडणे हे चुकीचे आहे असे समज्.
- ४. शेक्षणिक साहित्य आणि सार्वजनिक मालमत्ता यांची नास धुस होणार नाही **याकडे लक्ष** देव सार्वजनिक विकाणी शिस्त पाळु.
- ५. अत्र व पाण्याची नासाडी टाळण्यासाठीची दक्षता घेवू.

## सारांश:-

लोकसंख्या शिक्षण केवळ लोकसंख्येच्या आकडेवारीचे शिक्षण नसून उत्तम जीवन जगण्यासाठी आवश्यक असलेल्या सर्व गोध्टीचा चांगल्या प्रकारे संस्कार करणारे शिक्षण म्हणजे लोकसंख्या शिक्षण व्यक्तीचे उत्तम जीवनमान ठरविण्यास जवाबदार घटक, त्यांचा परस्पर संबंध व त्यांच्यातील चिंडलवर्तनाची प्रक्रिया या गोध्टीचे ज्ञान मिळवुन देण्यास मदत करणारे शिक्षण म्हणजे लोकसंख्या शिक्षण.

·लोकसंख्या शिक्षणाचा आशय पुढील तीन मुद्दयांवर आधारित आहे.

- १. जाणीवं जागृतीसाठी शिक्षण.
- २. उत्तम जीवनमान वाटचाल करण्यासाठी शिक्षण.
- ३. जबाबदार पालकत्याचे शिक्षण.

लोकसंख्येच्या संदर्भातुन जे शिक्षण दिले जाते त्याला लोकसंख्या शिक्षण असे म्हणतात. लोक संख्येची प्रक्रिया व वैशिष्टये यांच्याच संदर्भात अध्यापन अध्ययन लोकसंख्या शिक्षणात होत असते. आज जग भर सर्वत्रच लोकसंख्येचा विस्फोट होत आहे. अशा परिस्थितीत लोकसंख्या शिक्षणाला विशेष महत्व

Power of Enowledge Peer Review Journal, Volume: I, Issue: III Oct. to Dec. 2020 ISSN 3320-4494 Impact Jactor 2.7286 गालेले आहे. लोकसंख्या शिक्षण हा नवी संकल्पना असल्याने त्यात नेमके काय शिकवायचे कसे शिकवाय चे ग बहुत चित्र स्पष्ट नाही. याबाबतीत काही विचार मांडण्यात आलेले आहेत. मानवी साधन संपत्तीच्या विकासाशी लोकसंख्या शिक्षण निगडित आहे. त्यामुळे लोकसंख्ये विषयी जाणीव एवडाच लोकसंख्या शिक्षणाच्या तेत नसुन मुल्यांच्या विकासाचा च अभिवृतीचाही संबंध लोकसंख्या शिक्षणाशी येतो असे मानले जातो. नोकसंख्येतील बाढ व संबंधाबाबत जाणीव निर्माण करणे जाणीवेचा विकास करणे, ज्ञान करून घेणे हे लोकसंख्या शिक्षणाचे उद्दिष्ट असते. लोकसंख्या शिक्षणातुन कौटुंबिक जीवन , मानवी जनशक्ती यांचे 😨 ान तर दिलेच पाहिजे, त्याचबरोबर त्याची नैतिक बाजुही सांगितली पाहिजे ही नैतिक बाजु म्हणजे समाजात प्रत्येक व्यक्तीची कृती इतर व्यक्तीवर परिणाम करणारी असते हे समजुन सांगणे. तसेच लोकसंख्येच्या त्राढीतुन ज्या समस्या निर्माण होताल त्याबावत दिलेली निर्णय घेण्यास सक्षम करणे हाही लोकसंख्या शिक्षणा मागिल हेत् असतो.

लोकसंख्या वाढीचे अनेक दुष्परिणाम आढळतात. उदा. दारिद्रय वाढत जाते, अन्न धान्याची कमतरता भासु लागते व जीवनावश्यक वस्तुंच्या किंमती वाढतात, घरांची कमतरता भासू लागते, दळणवळणाची साधने उदा. बस, रेल्वे, इ. कमी पडुन उपलब्ध वाहनांत गर्दी बादून त्यांचे विपरीत परिणाम दिसु लागतात बेकारीची समस्या गंभीर होऊन समाजविधातक कृत्ये जोर धरु लागतात. निरक्षरतेची समस्या गंभीर बनते, समाजविषयक कृत्ये होऊ लागली का त्यातृत सामाजिक सुरक्षितता राष्ट्रीय स्वातंत्र्य यावावतीत समस्या निर्माण होतात अशा प्रकारचे दुष्परीणाम टाळण्यासाठी लोकसंख्येवर नियंत्रण आवश्यक ढरते व ते लोकसंख्या

शिक्षणाने शक्य होते.

लोकसंख्या शिक्षणाच्या उद्दिष्टांचा अभ्यास करणे व ते कितपत साध्य झाले याचे संशोधन महत्वाचे असल्याचे दिसुनयेते.

निष्कर्ष:-

लोकसंख्या शिक्षणाने साध्ये केलेल्या उद्दिष्टांचा अध्यास करतांना खालील निष्कर्ष आढळून आलेले जाणवतात.

१. लोकसंख्या शिक्षणामुळे समाज जागृती होण्यास मदत होते.

- २. अंधश्रध्दा, अज्ञान आणि अयोग्य रुढी यांचे समाजातुन उच्चाटन करण्यासाठी लोकसंख्या शिक्षणाची गरज आहे.
  - ३. देशाची प्रगती योग्य वेळेत साधण्यासाठी लोकसंख्या शिक्षणाची आवश्यकता आहे.
  - ४. कुटुंब नियोजनाचे महत्व लोकांना पटवुन देण्यासाठी लोकसंख्या शिक्षण महत्वाचे आहे.
  - ५. वस्तुंचा व नैसर्गिक संपत्तीचा अयोग्य आणि वेगाने होणारा नाश थांबविण्यासाठी लोकसंख्या शिक्षण जरुरीचे आहे.
  - ६. लोकांचे जीवनमान उंचावण्यासाठी या लोकसंख्या शिक्षणाची गरज आहे.

## शिफारशी:-

लोकसंख्या शिक्षणाने साध्य केलेल्या उद्दिष्टांचा अभ्यास करत असतांना काही शिफारशी द्धाःव्या वाटतात त्या खालील प्रमाणे आहेत.

१. लोकसंख्येतील रचनेत घडुन येणारा बदल आणि संख्यात्मक बदल परिवर्तन व प्रगती यामधील

परस्पर संबंध याची आवश्यकता आहे.

- २. साधन संपत्तीचा काटकसरीने उपयोग व साधनसंपत्ती वरील मर्यादा, लोकसंख्येचा साधन संपत्तीवर होणारा परिणाम याचा अभ्यास करणे, जरुरीचे आहे.
  - ३. सामाजिक सांस्कृतिक दर्जाचा आणि लोकसंख्येचा संबंध साधने गरचेचे आहे.
  - ४. मनुष्यबळ संपत्तीचा विकास आणि लोकसंख्या शिक्षणात करणे गरजेचे आहे.
  - ५. पर्यावरणातील समतोल मानवी आस्तित्वासाठी आवश्यक आहे.
  - ६. राष्ट्रीय वैयक्तीक व सामाजिक जीवनस्तर उंचावणे गरजेचे आहे.
  - ७. नैतिक मुल्य व लोकसंख्या वाढ इत्यादी बाबीचा अभ्यास लोकसंख्याशिक्षणात गरजेचे आहे.

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संविधानिक राष्ट्रवादाचा प्रशासनावरिल प्रभाव प्रा. बॉ. जाधव विङ्गल सखाराम, यहा प्राप्यक तथा विभाग प्रमुख लोकप्रशासनशास, कालिकारेची, महाविद्यालय, शिरूर (का), बीड-413249. Jadhavvinhal40@gmail.com ,Mo. No. 9404024032

प्रास्ताविक

भारताची सम्यपटना विविध स्वरूपाच्या तस्य वैचारिक स्रोतातून निर्माण झाल्याचे दिसून येते. त्यात एका बाबुता स्थातंत्र्य नदा ब्रिटिश कालिन कायदे विरोधत 1935 चा भारत सरकार कामदा आणि इतर देशातील राज्यपटनीचा प्रभाव राक्षात येतो. राज्यपटनेच्या निर्मितीसाठी विशिष्य सोतांचा आपार घेताऱ्यामुळे विच्यांवर अशी टीका केली जाते की भारतीय सम्मधटना ही उसन्वारी असलेली संरिता आहे. तथापि भारतीय पटनानारानी विविध देशांच्या सञ्चयदनेतुन अनेव्य तरतुरीचा स्वीपार बेहोता आहे. हे खरे अवले हरी ही बेबाड उसनवारी उरत नाता, पटनेतील आगप, त्याची सामित्रती सामाज आणि गेली सहा दशके सुरू असलला दिया व्यवसार पानम अधारिकत होम्ली बाब सामने, भारतीय पटनाकार्यनी पटनाशक मूली, आहर्य आणि भारतीय समाज बाततव मानी माध्येबाड मास्त्रम प्रा गटनेची निर्मित केली होता हो बाबामाहेब अविद्यासी म्हरस्या प्रमाणे परनामार्खानी अन्य देशांच्या ग्रह्मानीस सर्वोत्तम भाग एकव केले.भारतीय समामात राष्ट्रमाराजी उभागी काताता जना मानवसामाहो, धर्मसित्पेक्ष लोकशाही व पूर्मणामी मुल्याचा स्वीवस कला ला मुन्य व आदमीना संविध्यानाम् रे सम्बन्ध करण्यात आले आहे आसीव संविधात एका बाजूला पाद्यस्य तस्य स्थलतारे प्रथातीत प्राप्ते आहे तर द्रमन्य बाजूला स्यातंत्र्य सारमातृत आकारमा कालेल्या भोरतीय सविधान आण्डण वेण्डणा क्क पार्च करने आहे. भारतीय सरकारनेतृत वीक कर कालती प्रत्याचे तरकात प्रतिविधित होते. सरवाण्यात आर्थन केलेले ग्रामकोण, आर्थिक न्याग तचा दर्जा स संभीची हमी संगारे समतेचे तत्व स्त्रोत कल्यालाचे उदिए अधीरिवन काताम भा.ल. भोळे म्हणतात, "पांपरा आणि आपूर्णिकता या दोगैचा गेळ कता पालावा या मामतचे अनेक दृष्टिकान घटनासमियीमीत प्रत्येक मुद्यायाच्या चर्मेतून व्यक्त झालेले दिस्त येतात. पण बाहर्रा आपूरिकतावादी विचार प्रकाराचे पाडे दरवेडी नड झालेले दिसते, याताः। पाधिभात्यांच्या संस्थांने अंधानुकार न करता त्यांना भारतीय परिस्थितीनुसार योग्य ते बळण देकत विकारावे असा महाचा प्रधान नास्त होता. त्यानुसार पाद्यान्यपतींची पण भारतीय परिस्थितोती नुळवणारी १) संसदीय पदती आपण स्विकारती विकासाची प्रक्रिया मान्त्री स्वरूपाची २) ननवायची असेल, विविध टप्प्यांवर लोक सहभाग वादवायचा असेल तर, देशातील लोक्जााही यंत्रणा अधिक लोकाभिनुख होणे तस्तेच सर्व पातळ्यांवर ती है) अधिक जवामदार प्रतिसादात्मक बनणे आवश्यक आहे. त्यासाठी जागुक लोकमत चागृत प्रसारमाध्यमे, चागृत विरोधीपक्ष इत्यादीच्या सहाव्याने सत्ताधारी पस्तावर या ठल्यांच्या ऑसलबवावणीसाठी दवाप वादविणे गरवेदे ठरते. म्हणजेव १) ज्याप्रमाणे सोक्जागृतो माहेल त्या प्रमाणात क्रासनाकटून अग्रणाऱ्या जन२) कत्यागाच्या अपेक्षा बाउतील आणि त्या प्रमाणत आपल्यासाठी दवाव बाउेल, ३। या दरबोच्या आंमलबजावणीला गती प्राप्त होईल म्हणून भारतीय संविधानातील प्रसासकीय मुख्योची भारतीय प्रशासनाच्या संदर्भने उपयुक्तता दिसून येते. तसेच अनुसुचित जाती आणि जमाती माच्या करिता नेमण्यात येशाऱ्या राष्ट्रांग आयोगाने आंग्स भारतीय समुदाया बावत ती अनुसूचित जाती जमाती प्रमाणेच कार्य पार

पारंगे अपेशित आहे. दुसन्या शब्दात, अंग्ल भारतीय समुदायाला असलेल्या पटमाल्यक आणि ईवर बावदेतिर संरक्षणत्मक वर्दुरीचे परीक्षण आयोगाला पटमाल्यक आणि ईवर बावदेतिर संरक्षणत्मक वर्दुरीचे परीक्षण आयोगाला कार्य लागेल आणि लागेला कार्यवादी मानत राष्ट्रपतीला अहवाल साहर करावा लागेल, अशा प्रकार पतियानाने अनुस्थित आती नमाती, मामासवर्गीय, पार्मीक व प्राचीक अल्पसाच्चाक आणि आग्न भारतीय मानुदायाकात्रिया संरक्षण देवृत वार्यो आल्पसाचीला संरक्षण देवृत वार्यो आहे भारतातील सर्व वार्यो आग्न अग्राल से वार्ती प्रमान मामान समाता, व्यत्या अपूर्व व न्याय पार्मीय मामानवर्गी परीवार्यकाले मामानवर्गीय समानवर्गी परीवार्यकाले मामानवर्गी करावे, वाराची गामान व प्रशासन मामानवर्गी करावे, देशाची गामान व प्रशासन मामानवर्गी करावे, वेदावार्गी गामाने मामानवर्गी कर्मिकाह, प्रमानवर्गी करावे हेशाची भागान व देशां व वेदाविक वृद्धिकोच जानामचे मामाने स्थानो सविधानिक पार्वार होत्या भागान व देशां व वेदाविक वृद्धिकोच जानामचे स्थान सविधानिक पार्वार होत्या भागान मामानवर्गी सामानवर्गी करावे स्थानवर्गी सामानवर्गी करावे स्थानवर्गी सामानवर्गी करावे सामानवर्गी सामानव

संगोधन शिक्षेत्र, "संविधारिक शब्दकराष्ट्रा प्रशासनावरील प्रधान" संगोधनाची सरव

संविधानिक शहराराच्या संवीधनाची गरण लगात चेता असे दिसून प्रेमें जो, 26 जानेवाच 1950 रोजी या देशाने संविधानिक सह्वाद स्विकारता परंतु स्थानी शरी सर्विधान स्ट्रमालाची मूल्य भारतीय जनते सच्चे योदया प्रेमानात कजन्याचे दिसून चेते यातु मोद्या प्रयाणात से समात, स्वातत्त्व, चेपूर्ट्य व न्याय से सप्ट्रमादाची मूल्य योद्यावर कजनवासाठी या मसीधनाची गरन असरचाचे विदर्शनात येते. यात भारतीय सम्यास प्राधान्याने सन्मानपूर्वक संघीची समानता व सन्मीत शोकसाती वरोजस्य सामाजीक च आधिक लोकशाती या संविधानिक सम्बत्याम अपेक्षात आहे. प्रमूच सर्व पात्रव्यावर भारतीय नागरीकात संविधानिक सम्बत्याच्या संशोधनाची महत्र निर्माण झाली आहे.

संविधानिक राष्ट्रवादाचा प्रशासनावरील प्रभाव अध्यासणे,

संविधान मुल्यंतुसार प्रत्येन क्षेत्रात आंमलबजावणी ना शोध घेणे.

संविधारिक राष्ट्रवाद सर्व भारतीयांनी आवरणाठ आणावा हा महत्वाचा उदेश आहे.

संगोधनाची गृहितके

मेनियानिक राष्ट्रवादाचा प्रचार-प्रसार व प्रशिक्षण होणे गरकेचे.

भारतीय समानाचे प्रयोधन होणे अपेक्षित आहे.

क्रत्येक भारतीयांनी संविधानिक राष्ट्रवादावर विविध उपक्रम राषविले जातात. संशोधन पथ्दती

या संशोधनासाठी वर्णनात्मक, विश्वेशनात्मक संशोधन पण्यतीचा उपयोग करण्यात आला आहे. ही पप्यती उपलक्ष्मिपहिते या अस्मिमात खाणाली काणार असून विविध संदर्भ ग्रंथ यातून वर्णनात्मक पण्डतीने संशोधनाची मांडणी करण्यात येणार आहे.

संशोधन पर्वादा

- प्रस्तुत अध्यास हा फक्त सविधानिक राष्ट्रवादाची उद्दिशे कितपत साध्य झाली इत्याची पत्ना मयदित आहे.
- संविधानिक राष्ट्रवादाणी मार्तती, साधने, शिक्षण, संविधान साक्षरता, अज्ञानीपण, समुप्रदेशन वा मार्गदर्शना पासून वेचित असल्यामुळे माहोती मिळण्यास अङ्गणी निर्माण क्षेत्र शकतात.
- प्रस्तुत सविधानिक राष्ट्रवादाच्या संदर्भने साधनांधाचा आधात व माहितीचे अल्प स्रोत वायुळे हा अध्यास परिपूर्ण करण्यात अडघळे नेतात.

भारतीय मंत्रिपान हे प्रजासताकाच्या ७०व्या वर्षनितर ही आजच्या परिस्थितीही क्सो मुळपून पेते हे आपणास अनेक क्षेत्राच्या विकासस्तून तिम्स येते. उदा भारतीय राजभारण व प्रशासन वा क्षेत्रात झलेला बदल म्हण वे सर्व वाती समुहाजे प्रतिनियोगी या राज्य विधिमहत्रात न संबदेत कार्य करतांना रिप्ततात. आपत्या देशानील लोकानी निवाहन दिलेल्या प्रतिरिधीना जनवेल्या विकासी कामे व त्याच्या मृतभव गरवा प्रविष्या संदर्भात उपायक्षेत्रमा राजविषे क्रम प्राप्त आहे. पण सनेवी ऊब मिळताच खुर्बीचा मीह त्याना सुद्रता सुद्रत ताही आपण बतीचे मालग अमृत प्रतिनियों आतीत, हे ते सीधीत्यर पूर्ण विस्तान जातात. त्यामृते स्वातात्र्याच्या अनेक वर्षानंतर देखील देशातील दारिहण, प्रशासा, ध्वाचळी क्योपण जिल्ला, नामरी, पाणी, अस्त, जस, निवास, आरोण र मृतपुत सुविपा न समस्या आजही हरपार होन् शकल्या यात्रे, संविधानाने सर्व वाची कानगान्द्रते निर्धारित वरी बेल्लेटमा असल्या तरी स्थाची अंगतनदावणी यात्र मनापन्यापदान केली जानी असे देशातील प्रत्येक जाती प्रमीच्या मागरा ना एक भारतीय नागरिक रहण्य क्यामंत्री बारायला लागेल आणि त्यामाठी तो आपने प्रिका पेटन राजनीय पातु प्रतियामी शकी विरूप्त संभी मरण्यासाठी पेट्न उठेत तस दिवसापासूत समतेचे राज्य स्थापन कामता छन्या अधीर मुख्यास सर्वता. अन्यथा अति परीक्षम पेयम तपार करण्यात आलेल्या संविपान निर्माणकर्यों ही बाबासाहेब ऑबेडकराना अपेक्षित असंतिते राष्ट्र कपीच विर्माण होऊ शकत नाही, कारण संविधानात माणुस हा मेंडविद् आहे. आणि त्याच माणसाच्या हिताला वर संविधान अस्तित्वात असून रेखील बाधा पोहचत असेल ता भारतीय नागरीक म्हणून त्यान गाणसाने अन्यावमुलक व्यवस्थीवर प्रहार काण्यासाठी सजन झाले पाहीजे. जो वर्ग जाव आणि धर्म गाँधा देशहिताला प्राधान्य देतो . तो कपीच सातीच्या बंधनात अडकून पडत नाही, पण जो वर्ग बाती आणि धर्मांचा गर्व बाळगुन आपल्या बरोबर आपल्या पिड्यांच्याही अवनतीला कारणीभृत छरती तो कबीही संविधातिक राष्ट्रवारी होऊ शकत नाही ?.

संविधानिक राष्ट्रवाद

भारतीय संविधान प्रणीत भारतीय संविधानिक राष्ट्रवादाने स्वरूप बहु आयामी आणि तळागळाला भारतीय लोकांसह सर्वांना सामावृन घेणारे होते. "बहुजन हिताय बहुजन सुकाय" या विचार प्रणालीवर आधिकान होते. राष्ट्राच्या राजकीय व आर्थिक सर्वेत सर्वांना समान हन्छ, संधी व नैसर्गांक तत्वानुसार न्याय देणारा संविधानिक राष्ट्रवाद डॉ. मानासाहेबांना अभिप्रेत होता. भारतीय संविधानिक राष्ट्रवाद संकर्णनेत राजकीय, सामाजिक व आर्थिक मतेन्द्रारीस क्रोणत्याही प्रकारचे स्थान नवहते राष्ट्राच्या राजकीय व आर्थिक सतेना सर्वांना समान संधी मिळालीय पाहांजे असा त्यांनी आपल्या राष्ट्रवाद व संविधानिक राष्ट्रवाद संकर्णनेनुसार आग्रह धरलेला पहांचपास मिळती. स्वातंत्र्यपुर्व

भारताच्या राजवीय, आर्थिक व सामाजिक परिस्थितवा डी. आंबेडकरांनी सखोल अभ्यास केला होता, त्यानुसारम संविधानिक राष्ट्रवाद विकासीत आला असे म्हणता वेईल ती परिस्थिती लक्षात चेऊन त्यांनी असे ग्टरले आहे की, "स्वराज्यात स्वर्ण हिंदू आर्थिक बलशाली होतील, आणि अस्पृत्य हे आर्थिक असहात्य व लावार होतील, उसेच अस्पृत्यतेमुळे हिंदुना जे कायदे मिळाले होते से लक्षात पेउन स्वराज्यात अस्पृत्यता निवारण न होता तिला बीतदान पिळेल" यावरून आत्र दिसून येते की, स्वातंत्र्य पूर्व काळ किया स्वातंत्र्यानंतरचा संविधानिक यञ्ज्ञादावा काळ असेल हा २१व्या शतकातसी अस्पृत्र्य माणस्या गेलेल्या समुहाची परिस्थिती म्हणाची तसी सुधारलेली असे महणाता पेत नातो. सर्वाना आजही बाती व्यवस्थेमुळे सन्मानजनक बागणुक मिळत नाही असे दिसून येते, म्हणून विकसनशिल भारतात मानवता विकसित होण्यामाठी प्रविधानिक राष्ट्रवादाचा प्रभाव भारतीय समाजावर होणे गरजेचे बाटते. भारताला वरी स्वराज्य मिकाले तरी प्राप्त परिस्थितीत स्वराज्यात हिंद अधिक सामर्थवान वनतील हे स्वग्रन्थाच्या रूपाने मिळालेल्या राजकीय सलेला केवळ आयली रामकीय व आधिक सत्तेची मकेदारी विमाण करण्यासाती उपयोग करतीला. सवार्थ हिंदुमा स्वसम्बद्धान रूपाने भिळालेल्या सत्तेचा उपयोग ते आस्प्रशासारच्या गरीक लोकांका प्रवासांकी करणार नातेत. त्या राजकीय सर्वच्या माध्यमाञ्चारे ते आगुणामा पूर्व आगण्यासाठी प्रयत्न तर करुतर नाहितच उत्तर ह्यांना विकालीच्या राजनीय समेचा उपयोग करण ते उम्पत्र्यांना त्याच्या मनेतारीच्या निर्मितीसाठी नामान प्रणाला प्रमत्न करतील हरकेल ताली सर जातिल्यकानावर आधिसीत ममा अस्वना अधिक मञ्जन्त करण्याचा ते आपल्या राज कीव सर्व च्या भाष्यमाञ्जीर पमल करतील कारण त्यातम् सवर्ण हिन्द्या फावटा शक्षा, त्यामुळे स्वराच्या राज्यपटनेत असा प्रकारच्या कात्री फेल्या पाहितेत की, ज्यामुळे अस्पृत्रामाण्य एराव सोमान अपल्या विकासको गंधी पिळेल. स्थानवरोबर राष्ट्राचे भीताना उरिवनगरना प्रक्रियेमध्ये सवर्ग हिंदू व इतर समानाच्या होत्राप्रमाणेव अस्प्रस्थांनाती आपत्या प्रतिनिधीच्या माध्यमाळारे भाग घेता जाला पारीजे. त्यासाठी संपान संपीताठी नेव्हा दी, नानासाहेन ओबेडकर प्रयत्न करीत असा रोज्य त्यांना राष्ट्रविरोधक अधवा राष्ट्रशेही उरवृन त्यांच्यावर भवारका रोका करनी जात असे, या रोक्चे स्वरूप नेमके कसे होते है आपल्याला बाबामादेवांच्या पढे उल्लेख केलेल्य विचारांचरून लक्षात येईल. त्याचेळच्या परिरिधार्गाचा विचार करून भारतीय संविधानिक राष्ट्रवादाचे स्वरूप विशाद करतांना से पत त्यांच्या खालील बंधात दिसून येते ते असे 'पाच्य आणि अल्पतंत्रवाक या आपल्या गंवात असे म्हटले आहे की, "बहुसंख्यांकांचा अल्पराज्याकावर बहुसंख्याकांच्या इच्छेप्रमाणे राज्य करण्याचा नैसर्गिक अधिकार हे पालीय राष्ट्रवादाचे तात्वीच अधिष्ठान होते. अल्पसंख्यांकानी राज्य कारभारात भागीदारी मागणे म्हणले जातीदवाद आणि बार्सस्यांकांनी सर्व राजकीय सत्तेची मक्तेरारी हातात देवणे म्हणजे राष्ट्रवादः यासाच पुढे स्वातंत्र्यानंतर आपण संविधानिक राष्ट्रवाद म्हणने बावने दरू नये.

वर्गस्य विचायवस्य आपल्याला असे निदर्शनास येते की, अस्पृत्यांसाराच्या अल्पसंख्यांक शोकांनी केव्हा केव्हा राजकीय स्वकांची मागणी केली, तेव्हा तेव्हा त्यांच्यावर वातांवादाचे आरोप करण्यात आले. या उत्तर बहुसंख्यांकारी राष्ट्रवादाच्या नावाने आपल्या राजकीय सत्तेवां मकेदारी निर्माण केली. हो, बाबासाहेवांना असे बाटे की, प्रस्कानित सत्तर्ण हिंदुंच्या राष्ट्रवादा विषयक या कल्पनांत बटल झाला पारी के निर्माण अस्प्रित अस्तित्वा भारतीय राष्ट्रवादात स्वणं प्रस्थापत हिंदू बरोबरच अस्मृत्यांकाल्या गरीब लोकांनाही

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राजकीय ससेत व राज्य कारभारात त्यांना हक्क म्हणून सामाजून घेतले पाडी है . ही, बानासारोन आंग्रेडकरांचे राष्ट्रकार विकास विचार माणावेच संविधानिक राष्ट्रकार समवावृत्र घेताना आपण हे लक्षात घेतले पातिने, एका मानूने ते ब्रिटीश साकारने भारतीयांचा जास्त्रीम जास्त राजनीय एता व अधिकार दिले पाहिनेत, अधीत फ्लॉबाने भारताला स्वापन्य मिजाले अमे पाणड आपने विचार व्यक्त करतात तर दुमना बाजुरे, ब्रिटीश सरकारने जे राजकीय अधिकार घारतीयांना दिले आहेत त्या राजकीय अधिकारात स सतेत अस्पृत्यांसाराज्या गरीव लोकांनाही बाटा भिम्मला पाहिले, त्या राजकीय सत्तेचा साथ केवळ नार्वत जातीना व प्रस्थापीत लोकांना न मिळता, मर्नांना स्था सतेत लाभ निमाला पाहिने असे की, बानासारेन आंबेडसरांना बाटत असे. मंतिधारिक राष्ट्रवादाचा प्रशासनावरिल प्रपान राजकीय सुधारणेयेश सामाजिक सुधाला क्या अधिक महस्ताच्या आहेत अचन सामाजिक मुफानांचा राजकीय मुपारगांवर कसा परिणाम क्षेत्र असतो है सार मारण्याच्या उदेशने हो. बाबासाहेब ऑस्ट्रकरानी प्रक्रित लामाले(lassalle) बांनी 1862 पटने बाल केलेल्या विस्ताराजा आधार घेतता आहे. त्यामाले गा कार्त भारतीया एक भारतामें भीता. त्याने भारे सहसे आहे की, त्यहवातमक पत्र प्रथमतः सत्याविषणक्ये पत्र तस्त तं गांक विषयण में प्रथ असावार, देशाच्या फवशातील राज्यपटनंत्रे ऑस्ताच तम देशतील प्रत्मधातील शिकारसीचनर अवलेक्न असते त्यामुख प्रमानीय प्रस्ताना पहला आणि विभावत फेनळ स्था सम्माप्टनामाध्ये त्या ऱ्या देशातील सम्प्रमाच्या गाँक विषयम भटनामे प्रतिस्थि ण्डारे अमेरर अस्य प्राप्त एक अस्ति । सामाने यानी असे विस्तामा आवापाचा काल केटर आहे की सम्लाहना सापानिक प्रतिवर्धान कारिक्सी आसास समाजामध्ये जे विचार प्रभावी असवाद त्या विधाएका एत्व प्रत्नावर प्रभाव पटन अपतो, बाबा अर्थ असा होतो की शावासिक परिवर्णका राजनीय व प्रमासामीय विकार प्रभावोंना प्रभाव पहत अमतो जो इताव प्रविधानस्था स्थान आपल्याचा प्रश्वकात विकास दो बाजासाहेब आवेहनानी या सामानेका मताना आधार फेडन सामाजिक प्रारम्भिकाना एउटील प्रतिस्थानार जानता विस्तर प्रमाशीयर कमा प्रभाव पहल असतो है स्पष्ट करने आहे. स्पानुकेश सामाजिक सुधारणांना प्राधान्य रेण्याची गरत त्यांनी आह केली आहे.प्रधम निर्माह प्रकारची सामाजिक प्रतिभागी विभोग होत असते, मगागतील लोकांच्या आगा अन्तर्भक्षा निर्माण होत अगरात, त्यांच्या अविच्यारांना प्रत्यवातील रूप रेप्यामाती राज्यपटना मंजूर केटवा जातात. याचाच अर्च असा होती की, प्रथम सामाजिक सुपारणांना गती प्राप्त होत असते. ह्या सामाजिक सुफारणांचे हेतू साध्य करण्यासाठी राज्यभटनेच्या रूपाने राजकीय सुधारणा प्रत्यक्षात आन्तर पेत असतारा असे हों. बाबागाहेब आवेदकरांना बाटते रें

तां, बाबासाहेब अविडकरांच्या सत्वयानाचा भागीय संविधानावा आणि संविधानाचा भागीय प्रसासनावा प्रवसेल्या प्रभावाचा अञ्चास या प्रस्तृत सोध निवधात काल्यात आला आहे. ध्रमृत त्याची सद्यान्यातीत उपयुक्तता वाडत आसलेली दिसून येते संसादीय लोकजाती शासन पहत्तो, संविधानाच्या पतित्वा कलमात नमूद कल्यात आलेला 'युनियन' ता शब्द भारतातील कल्यातीत विविध स्वस्थाने संविधानातील संशोधन पप्यती, संप्राच्य, राष्ट्रपतीचे स्थान इ संबधी संविधान सभेत चेण्यात आलेल्या आक्षेणला उत्तरे देतांना राजकीय, प्रपासकीय, सामाजीक, आर्थिक, मार्थिक कलाजार इ तत्वज्ञान पांडले आहे. डी बाबासाहेब संविधानाचा भारतीय प्रशासनावर प्रभाव पडला वालाच आपण संविधानिक राष्ट्रपतार म्हणये बालने दक्ष नये, भारतीय संविधान म्हणवे एक पारतीय प्रशासन बालविष्णाचा उत्तर प्रशासकीय करवता आपणास म्हणता मेहेत. ते निर्मिती माठी हो, बावासाहेब आवेडकर यांनी 2 वर्ष 11 महीने 18 दिवस सकत कामकरून भविष्णांनाची निर्मिती केली एक्ट्रवा मोठवा खंडप्राब देशरून सुद्धम व सखील अध्यास मकत सर्वच विषयांवर मोठवी केली आहे. म्हणून आपणास भारतीय प्रशासकावर सविवानिक राष्ट्रवादांवा मोठवा प्रमाणात प्रधान आस्त्यांचे शासीय रोते

हो। मानासारेन आवेदकरानी संविधान निर्माण करताना संपूर्ण विव्दता पणाला लावली अनेक देशांच्या संविधानाचा अध्यास करून महत्वाच्या आता सत्याचा समावेश आपत्या मंतिपासमध्ये केला आहे. या संनिपानामुळे भारतातील मागामतिल्या ज्यातीला सन्तानमध्ये स्थान देव्ह त्यांना नीवन जगन्यांना अधिकार या प्रत्येम्बे रिखाले गिरोपतः मृत्यभूत हरकामधील कलम 32 परतासक उपाय बोजनेसा हक समुद्धे व्यक्तीसा समानात मुक्त पास रोज्याचा अधिकार मिळाला. त्याच वरीवा सनाजातील गरीच व बीमंत पांच्यासील टरी कभी करण्यामध्ये या सकियानाच्या मध्यमातुम प्रमस्त्र मेली मेले. परंतु आजध जागीवकी करणाञ्चा भूगालकी जाति आर्थिक घोरण आगस्ते गेसी. न्यायाध्यस्यस्यः गरीव गरीवन होत्र आहे आणि श्रीमंत श्रीमंत्रव होत् आहेत लगतूनच अभिक्रमातील तस्त सान्स्य ग्रह्मका विस्त येवात, मानून आज ओपन दी. बाबामाहर आवेद्धार वाच्या सर्वे विभागतील विभीण आरोहणा सविधानाची प्रदान वात्राम व मटकार पर्ने आवलकवाणी करून भारत देवासा पहासाम मन्ति । व्यापक आहे प्रतिप्रामणीय कलाबार व राजनीय मुखानुसार गा रवातील वीजवाती, एउडीय ज्यासक व अन्तेने आपली सविधारिक सध्यता व (क्टूबार क्रेमाप्रका स वा द्याचा प्रशासना होण्याचा मार्ग निवितन सकर होईस क्या जातानार कार्याना विश्वतो, म्हणून मंद्रियानासील सामाजिक बरुपाण मुखा अस्त्रात्रात्रात्र व अनुसारित जाती त्याच महोतर एकदर महतव समामास्था दुर्शने मानगत व प्रतास प्रतास कानासकारी सजा प्रस्थापना करताना विस्त्र पेत अमराने आहरते वाजूने वाजना काळात संविधानिक छएपाराम्के देशात आरोहात व व्यवस्था जादेश असे विजून येते . जा प्रसंगी संविधानसभेत जी. भागातिक आवेदकर गामाता ते महराने अगरी बीम्प बारते, "आपला देश विकास बुधार आहे. देवाची सामाहिक संस्थान परिचयत आहे. आहा राष्ट्राहरी या कलांना नाकारनाचे ज्यांत्री शोधूनती सापद्रणार नाते. यहणून या शानांचा पुनक्तकार म्हणजे शुरूद पद्यांत पादित्याचा प्रकार क्षेप ; कारण ही ताले आमध्या विचाराचे पवित्र अधिष्ठान महसून स्वापित झाली आहेत, स्टब्नूनच स्यांना आशा पुना आमध्या तत्वप्रणासीचा भाग माणून घोषीत करणे अनावश्यक आणि अप्रस्तुत आहे. या प्रस्तावात मन्ता काही दलिया आपनातात मना असे बाटते की. या प्रस्तावात औ नगरी अधिनगरीची घोषणा करण्यात आसी असली तरी, त्यांच्या सुरक्षीततेच्या उपाययोजनांशिकाय अधिकारांना कागीही मोस नसते कारण लोकाच्या अधिकाराचे इतन होते हेव्हा या प्राथमानाच्या आपासवस्य स्तोक त्याविकच्या दार माण् शकतात, मला या प्रस्तावात अशा तरतुरीचा अभाव नाणवतो, एवदेवं नन्दे तर मानवाचे जीवीत वित आणि स्वातंत्र्याचे आपहरण कायक्कच्या प्रक्रियेशिकाथ करता येथार जाही, सास्तक सर्व शायान्य उपाय योजनांचारी या प्रस्तानात उल्लेख ताही. या मूलभूत अधीकारांना कायदा आणि नीतितालांच्या स्वापीन करण्यात आले आहे आणि कामदा मानावे कामर भौतितत्व म्हणने काय? वर त्या समयो प्रशासन ठरपील तो कावत , प्रशासन वर्रवित तो नीकतमुल्य आणि ही मान संस्कृतीन प्रशासन्। त्या क्रानीन करण्यात आली तर एक प्रशासन एक समयी या संबंधी एक पाएक प्रान्ध कुन तर दूसन Reservative transportation organization for the economic bond Economic consocialistic legion (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905) (1905)

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प्रशासन दुसन्या समग्री दुसरी पारणा मान्य करणार असेल तर या मुलभूत २) अधिकारांसंबंधी निश्चित काय स्थिती रोईल हे आपणास सांगता येणार नाही. करही प्रावधाने आर्थिक, सामाजिक, प्रशासकीय, व राजकीय न्याया विश्वी ३) आहेत. राष्ट्राचे भवितव्य निर्धारीत करतांना लोकांची प्रतिष्ठा, नेत्यांची प्रतिष्ठा, प्रशासी प्रतिष्ठा, वार्चीना कोणतेही मुल्य नसते. देशाच्या भवितव्याचा विचार हा सर्वोपरी असावा. महणून संविधानिक राष्ट्रयादाचा प्रशासनावरील प्रभाव महिताना संविधान सभेत हे मत महा महत्वपूर्ण वाटते .

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सविधानिक पण्ड्यादाचा प्रशासनावरित प्रभवन पांडतांना प्यातंत्रयपूर्व काळातीळ हाँ, बाबासाहेब आंबेडकर यांचे राष्ट्रवाट विश्वपक विधार पाराने हैं। गरंबचे होते, त्या सण्ड्यादात समता, स्वातंत्र्य, बंधुत्व व त्याप, एकात्मता व अग्रखंडता या बाबी बरोबरच माणूम हा केंद्रीभूत मानता आतो. स्वातंत्र्यानंतर 26 रें। वानेवारी 1950 रोजी संविधान आंधल सूरू आता मंविधान मृत्य जी मानव केंद्रीत कल्याणकारी आहेत, त्यालाच आपण संविधानिक पाड्याद प्रभाने नावगें ३; उरणार नाही, माणून या भारतातील सर्व कल्याणकारी भारतीयांनी संविधानीक पाड्याद बोगामने परवेचे आहे, नाव्यास दिलेल मृत्यपूत अधिकार मृत्यपूत सर्वथ्य मार्गदर्शक तत्वे इ. मानवतेच्या दृष्टिन पाडली केरी पाडीकेश सर्विधानिक एवड्याद बेणाच्या सर्व शासनातेच्या बोगासला तर पाडल देश महामाने कहे विधान पाड्याल करेले.

#### जिएक स्थारि

सविधानिक सञ्चलका प्रचार प्रसार करण पहलेच आहे.बानवीच्या दृष्टीन सचिधान मुख्य शिक्षण व्यवस्थेतील सर्व स्तरात अध्यास क्रमात असणे गरवेचे आहे. भारत साक्षरता मित्रानच्या घरतीवर संविधान साध्यरता मित्रान निर्माण करून संविधानिक राष्ट्रवाद श्रीपासला जाणे गरजेचे आहे

सर्व भारतीयान मध्ये संवीधानिक राष्ट्रवादाचा प्रसार होण्यासाठी विविध उपक्रम हाती येणे गरजेचे आहे.

देशाच्या संसदेने व ग्रन्थाच्या कायदेमंडळाने, शासनाच्या विविध पदाधिकाऱ्यांना आपल्या कार्यात संविधानिक राष्ट्रबाद शिववता जावे व जोपासण्याचे सकिने गरनेचे वेले पार्हीने.

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## आयुनिक भारताच्या उभारणीत संविधानाचे पोगदान

प्रा. की. की. पता जायव ग्रह्माक प्राच्यापक तथा विचारा प्रमुख स्रोपग्रशासनशास्त्र व्यलिकारेयी कला, वाणिन्य व विज्ञान महाविद्यालम, तिरुर (का.) नि.मीड Jadhavvithal40@gniall.com, 9404024032

प्रस्ताधना

कोगत्याही देशाचे स्त्रियान हे त्या देशाचा मूलभूत यगपता कासतो, असे मानले जाते. ज्या कालखंडात ज्या देशात, ज्या समानासाठी है कायदे तथार करण्यात घेतारा. त्या सर्थव कामधीना स्था देशाया हितास. ग्रमानव्यवस्था, अध्यावस्था व संस्कृती इत्याधीचे संवर्ध आततहा. मुलगृत कायदाही याला आपवाद आसती. जर कापण जनता सार्वभीम मानजार कासू तर त्या मुलभूत फापधाला जनतेची मान्यता मिळविण्याच्या इंप्टीने आसे संदर्भ असणे अपरिसर्प असते. पामुळेच तर देशोदेशीच्या राज्यपटनेत आपल्याला विविधत्य आढळते काही मुलभूत स्वरुपाचे फरका आढळतात. या दृष्टीने भारतीय रविधान या देशाच्या मृतिहातीक पार्श्वपूर्मीवर तथासल्याशियाय या राज्य घटनेला भारतीय इतिहासाचे संस्कृतिचे असे कोणते संदर्भ आहेत. याची कल्पना पेणार नाही. १५ ऑगस्ट १९४७ ला जरी स्वाकंय पिळाले असले. तरी देशाचा राज्यकारणार १९३५ च्या गर्वामेन्ट ऑफ इंडिया या वायद्यानुसार २६ जानेवारी, १९५० पर्यंत चालत होता.कोणायाही देशाच्या तीवधानकाराला आपल्या देशाची मुदा, (मानचिन्ह व राष्ट्रीय प्रतिक) राष्ट्रध्वनता पटनेत अंतर्भाव करतांना त्या त्या देशाला लाभलेत्या महान समृद्धी व संस्कृतीपूर्ण विवासीया जामार व्याचा लागतो । मुस्तीय गीवपानाचा प्रास्तविकाणसून से स्पास्थातीस शर्व अनुच्छेथावर युध्व धम्माचा प्रभाव जाणवती "

स्वातंत्र्य प्रप्तीनंतर देशातील नार्गारफांचा सपुर्गे।पो विकास घडवून आणणं प्रशासनाला शक्य दावं पासाठी कल्यामाकारी राज्य संकल्पनेचा स्वीकार कारण्यात जाला. कल्यामाकारी राज्यात व्यवतीच्या चन्मापासून त्याच्या मृत्युपर्यंत स्थाच्या सर्वांगीण विकासाची जवाचदारी राज्यावर पर्यायाने प्रशासनाचर असते. प्रशासनालाही जवायवारी पार पाडता यात्री म्हणून भारतीय साँवपानाने आपल्या राज्य घटनेवरून राज्यनीतीच्या मार्गदर्शक तत्वांचा स्वीकार पेत्व. भारतीय संविधानातील चौच्या भागान कलम-३६ ते ५१ अंतर्गत या तत्वीचा समावेश फेला आहे. फेंब्रशासन आणि घटक राज्य शासनोनी आपले कायदे करताना, घोरण ठर्रायतामा राज्य नीतीच्या मामप्रशंक सत्यांचा अवसंब फराया य त्यानुसार आपला राज्यकारमार चलवाया म्हणने नागरिकांचा आर्थिक, सामानिक, श्रीहणिक, सांस्कृतिक य रामकीय विकास ग्रञ्ज चेईल. शासन व्यवस्थेने मार्गदरांड तत्यांना अनुसठन समार केल्स्या ध्येय धोरणांची य विकास कार्यक्रमांची अंगलबन्त्रवणी करण्याची जवाचवारी भारतीय प्रशासनावरच आहे.

२६ मानेवारी १९५० ऐंनी भारत सोकशाही सत्तरमध देश होत्यार याचा कर्ष साम्रा की लोकांनी, लोकांनी आणि सोकांसाठी चालविलेले ग्रंडय, भारताला रवा दियसा पासून पिळाले. संशोधकाच्या मनात पुरीधाच विचार येतो. पारताच्या लोकराही प्रणीत घटनेचे काय ग्रेणार? भारत ती घटना जाबूत देवील की युन्हा नव्द करील? हा दूसरा विचार संशोधकाच्या मनात छमा राहती. च पहिल्या विचारा प्रमाणीच हा ही विचार संशोधकाच्या मनाला चिताक्रात करीत आहे.

लोकशाही है व्यवस्था काय आहे है भारताला भारीत नव्हते असे नाही. असा एक काळ होता की त्यावेळी भारतात पुरंकळ लोकसताक राज्ये होती. प्या प्रदेशात राजेशाही होती तथे ही राजे लोक लोकमताने नेमले जात शात, किंवा त्यांच्या अधिकारावर नियंत्रण घातलेले असे. बुध्विमझुसंघाचा ज्यांनी आध्यास केलेला आहे.त्यांना हेय रिरान चेईल को हे संग्र महणाजे मृतिमंत सोकराभा होता. कारण आजवालच्या लोक (भेग)चे च्या) विवसंबंध पाची

January 3021

त केला त्या राज वापी कुद विश्वतिपाच्या वेठणीत पाळण्यात येत असता विश्वी कोठे वसाचे, उसव कसे क्रिंत, मार्थे पार्टी करावीत, किसी फिसू हमर असेल तर संपाने कामकान चलवाने, मिखू संपाना सुमग्रद व्य बसाय, मतदानाची मोनदाद कशी करायी, इत्यादी बाबी संवंधी संवाचे निवम करलेले असत. हे लोकसमा प्रणीत नियम करी सुष्टीते आपल्या संपाच्या फामकाशासाठी यापरास घेतले सरी से देतातील राजकीय लोकसभीती पूर्वी मारालेले असावत असे वाटते."

मा निर्वधानामुळे स्वातंत्र्यानंतरच्या भारताचे भविष्य दरणार होते. स्या दृष्टिने डॉ.याचाराहेच अविष्ठकरीयी जवान्यती सवितम् सोठी होती. ते म्हणत, भारतासारण्या छोड्याय आणि जाती पर्यावर आधारित आस्त्रीत्या देशात यहरीकरव है जातीयर या प्रमावरच अवलियुन असणार, ते जिन्हा राजवीय सहसीकरवाल परिवर्तील होईन तेनाम

खया अधीन सोकराही योग.

अपूर्ति यापाठीनागे त्यांया उदेश अमुफ एका विशिष्ठ धर्माच्या या फातीच्या समागाच्या संख्येविषयी नग्रता, सर स्वातून स्थीना अभिनेत होत की समाणाच्या रागमीय जाणीया मेंदर जाती पर्माच्या पारंपरागत प्रमावाखासून मुक्त क्षेत्रत, निव्यळ देशाच्या विकासाच्या या दिलाच्या दृष्टिने विकसित व प्रगरम संतील नेव्हाच देशाचे परितत्त्रय ठज्यल असे शकेल आणि निव्यळ याधसाठी शिक्षण य समता या द्विसूत्रीया पाठपुराण हो याबासाहेब अधिहरूरीनी थेळोथेळो त्यांच्या विचासतून व कार्यातून पेरता होता आणि घटनेताही याचाच पुनरुच्यार त्यांनी पेरता होता.

या विवासीचा प्रभाव आवल्याला भारताच्या प्रशासनावर दिसून येतो. आजधे प्रशासन है घटनेतील सर्व फलमानुसार हक्क, अधिकार, कर्कम, गृथिया, रास्त्रण, विकास या गोण्डीवर भर देतांना पटनेमुळेच दिसते आहे. धर्मनिरपेक्षता सत्त्राजुसार विकिन्त एका कुरान्याम धर्ममा विकास व्याचा है घटनेस मान्य नाही. म्हणून घटनाही परीपूर्ण विचार देते."

संशोधन पध्यती

प्रस्तुत संशोधनासाठी विविध रांशोधन एवर्तीस योपर करण्यात आला आहे. प्रामुख्याने ऐतिहासिक पच्दतीच्या आधारे भूतकाळात यहलंख्या प्रडामां देवा स प्रशासकीय परिस्थितीचा अध्यास करण्यास आलेला आहे. तसेन विस्लेगणामक पद्धतीया अवलेन फेला आहे.

गृहीसके संविधानाहरि भारतीय प्रशासनाकड्न होगामा प्रशासकीय कार्यक्षमतेन याह व प्रभानी आर्यनवशायणी आहे. संविधान निर्मितीपूर्व य नंतर पडलीने राजकीय, सामार्गगक, सांस्कृतिक य प्रशासकीय विधार वपयुक्त आहेत.

संशोधनाची खेरप्टमे ।-

र भारतीय संविधानाये आधुनिक काळातील घोगवान अध्यासने.

2) भारतीय प्रशासनाने लोकशाही राज्य निर्माण शाले काहे याचा अध्यास करणे.

असतीय संविधानाच्या क्षेत्रलापासून प्रशासनात रूनलेली मूल्य शोधणे.

संसदीम सोक्शाही

राजस्तीला स्नाम पालून तिला घडविण्यासाठी सोधनाडीया उदय झाला. बेलगाम पाणेसाडीला येसण यालांगे हे जाबीन सोक्साहीचे ध्येय होते. शाता मात्र आस्तीत पास्त सोकांचे हित य सुख साध्य करने हे लोकड़ाही में स्पेय आहे. सहरान हितान- बहुजन सुखाय सालहन हो. मायासाहेब ट्यांबेडकर व्याप्ता देवात शी असी-रक्ताचा चैंगही न पड् चैता लोकांच्या राजकीय, सामाजिक आणि आर्थिक जीवनात क्रान्तिकरक चरल घडवून

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शानामामा राज्यपण्यांता सोकराको म्हणताता. ते पृष्ठे म्हणताता की, सामाणिक व आर्थिक परिवर्तनारित्वाय स्थानीय सोकराबी शता नकत्वासारकीय असते.

हा. सप्पाक्षीय शविद्वार शोकसाहांचे चर साधार मानतात. १) व्यक्ती स्वाट्य एक साव्य आहे. १) व्यक्तीय साथ सिवाय स्विट्य सिवार सिवार सिवार केंद्रेस त्यक्षी सारकारने वेले पाहिले. ३) फोजरवाही अवताल सेची प्रत्य करणाया प्रत्य करणाया क्रियार सिवार केंद्र तथे. १) प्रत्य अधिवृहत व्यक्तील इतर व्यक्तील सामन व्यवणाय फोजराही अधिवहर स्वीत केंद्रेस सेते की, अनेकीना सामन्य वपनीविद्यार सिवारिक स्वीपकर सिवारिक स्वीपकर स्वीपकर सिवारिक स्वीपकर स्वीपकर सिवारिक स्वीपकर स्वीपकर स्वीपकर स्वीपकर सिवारिक सिवारिक स्वीपकर स्वीपकर सिवारिक सिवार

भारतीय रिवियान है फेक्क कांप्रधाये पुस्तक माही तर आर्थिक, सामानिक, रामधीय खेळेल सीस्कृतिक आणि प्रशासकीय विचाराचे मूलस्रोत आहे. जमाला समानवाद आणि लोकशाहीच्या दिरीने मेणारे होकायंत्र आहे. एकृष्यक भारताला परिवर्तनाच्या दिरोने मेण्यासकी भारतीय सीवधान है सम्यक्त विचाराचे म्याधालय आहे. १९३५ च्या क्यपरात देशा सोबत अस्पृत्यांच्या हक्कासकी आपली विद्रता प्रणास काव्यावी लागली. त्यानंतर स्यतंत्र भारताच्या सीवधानसाठी मीवधान सभेत प्रवेश मिळांचण्या पासून ता सीवधान राष्ट्रमा अपंत्र करणार पर्यंत विचारिक संवर्ष मराव्या लागला. श्री.यावासाहेय अविकारांच्या मनातील सीवधान म्हणाने श्रीडपुन्ड प्रस्ट फेडरेशनचे मेमोर्डडम होते.

भारतीय राविधान समञ्जून ध्यापचे असेल एउ 🌃 याजामारंच आवेडकरोती चेळोवेळी मॉडलेले विचार सन्दर्भ ध्याचे समानील."

भारतीय संविधानातील राजकीय, प्रशासकीय तलातान :

भारतीय संविधानावर सरनाप्याच्या आधारे तिचे तत्वातात आत्वात राममून घेता येते. त्या संबंधीये मृददे

पुरील प्रमाणे सांगता घेतील.

र जनसेव्य सामव्यांवर पूर्ण विश्वास

२.सोकशाही प्रजासत्ताकाचा स्थीकार.

३.धर्मनिरपेश राज्य

४.समानवादै तत्व प्रणालीमा स्वीकार

५.स्थानंत्रयं, समता, संयुगाव व न्याय.

६,स्थातंत्र्य चळवळीचा प्रमाय

७.चेतम युध्येच्या विचारांचा प्रमान

८ फुले, शाह, शविडकार यांच्य विवासीया प्रभाव.

९.विविध राज्य घटनीचा प्रणाव

भारताच्या सविधानावर अपातील निरित्ताव्या पुरातिया सविधानीचा प्रभाव भारता आहे. आपल्या सविधानकारोगी स्तर पेशांच्या प्रमापटकेशिल कार्त प्रोगालय तत्त्वांचे अनुवारण फेले खाई, ब्रिटित राज्यघटनेच्या उदाहरणावरून आपण सांसरीय प्रमुखिया स्वीकार फेला आहे. सर्वाच्या न्यायालयाच्या न्यायालयीन पुनिविक्तेकनाया अधिकार पेण्याची तरतूर ही अमेरिकेच्या घटनेची हेणांगी आहे. सन्य घटनेतील मामदुर्शक (सत्यांची कल्पना आपण

अटनेलठम ठप्रणारी आहे. अर्थात भारतीय घटनापारोनी प्रतरीकार्म फेयळ ठसनवारी केलेली जाही. रयांनी देशाची परिस्थित क गरमा पांचा विचार पठन परील राज्यांगध्ये आवरमक है यहन केले आणि स्थानंतर बटनेत अंतर्भव केला. प्रत्येक राज्यवटीला तात्यिक प्रायामृत वार्गा समानिक, राजकीय, आर्थिक, रमुक्तिक व प्रशासकीय सत्यांची शेवन घडक आरते. तिला एकप्रीतपणे खीप्रधानाचे सत्यक्षान किया विवास प्रणाली क्रणता पेईल.

बारोश :-

आन भारतात रंगियान लागू रोजन ७१ वर्ष पूर्ण झालेली आहेत. तेजा पासून श्रीमलवनावणी ही कारी प्रमाणात फैल्यामुळे सामांनिक फल्याणाच्या योजना मध्ये योडीफार प्रणती झालेली दिसून येते. सीवयानातील सर्व मूल्यांची, रात्यांची खरोखर जर अंगलवजावणी झाली तर या देशातील सर्व मानव समाज हा प्रातीपयायर असेल. यासाठी राविधानातील विधार मूल्य आणि पारदर्शकतेचे तत्व आपल्याला पानणागृती करून जनतेपवैत पोहचयावे लागेल.

त्याच बरोबर या सर्व गोंप्टी करण्यासाठी ज्या तस्तुवी फेलेल्या आहेत. स्थातील एक तस्तुव गरणजे घटना दुरूरतो या तत्वानुसार कालपरत्ये यदलत्या परिस्थितीनुसार आपणास मुळ संस्थनेला भक्का न लावता दुरूरती करून प्रत्येक क्षेत्रातील विकासासाठी हतपार लागेल, ल्यासाठी सीवधागाच्या मार्गदर्शक रहचे, मूलभूत अधिकार व कर्तत्र्य या चौक्दोनुसार प्रत्येक कलावंचा सकारात्मक अर्थ कादून प्रशासनाने प्रामाणिक अंगलकनावणी करणे गरतेचे आहे. त्याच यरेवर मुख्य मृत्य समता, स्वातंत्र्व, वंभूत्व य न्याम गाँची जनजामृती करून शेवटच्या माणसायदेत ही तत्वे प्रचार प्रसार करून पोहचवाजी लागतील तेव्हाच संविधान सफरन झाल्याचे म्हणाचे लागेल. भारतीय प्रशासनापी कार्यशासना सुधारण्याकाची सीवनानाची फाएकीरपणि अंगलवनायणी होणे गरजेचे आहे. सीयभागातील सर्वं शत्तुरीनुसार सर्वं योजनांचे लाल सर्व पारतीयोग्योत जाण्यासाठी प्रमाणिक प्रशासकांची फळी व त्यांच्याकडं नेतृत्य देणे आध्रस्यक गाहे. भारतीय प्रशासलकोल सुधरणेसाटी सांवधानातील कलमे, उपकलमे व योग्य तस्तृदीची अंगलप्रणायणी करण्याची आयस्यकता आहे. सर्च व्रिमाणातील अधिकारी य कर्मवारी यांनी योग्य अंगलकनायणी केल्यास प्रशासनात निरियतच सुपारणा झाल्यांकवाय सहपार नही.

## शिफारशी :

- र. भारतीय सींवधानातील मार्गपर्शांक सत्योच्या चीकटीनुसार प्रशासनाने प्रामाणिक अर्मलयगायणी करणे ससेच सींबधानिक साद्याद रूजीवध्याया प्रयान सर्व नागरिकानी करणे गरनेचे आहे.
- २. राज्यकर्तं य प्रशासकीय अधिकारी यांनी पारदर्शक, प्रामाणिक नियोजन यन्त्र, प्रष्टाचार मुक्त प्रशासन शेवटच्या व्यवतीपंग्रेत प्रत्येक थीयनेचा स्थम पोहपेल यासाठी सीवधानानुसार गतिमान पारदर्शक य कार्यक्षम प्रशासनाधी गरन आहे.
- भारतीय प्रशासनाच्या सर्व विभागातील श्रीपकारी कार्यकारी यांत्री प्रमाणिकता आणि कार्यकायता स्थारण्यासाठी श्रीवधानासी सत्वे जनगानसात रुजवमूक कशी होईल पाला गती देणे.

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## Impact Of Covid 19 Pandemic On Education; Benefits, Opportunities And Challenges Before Online Education In Rural Areas

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#### ABSTRACT:

The global pandemic of corona virus has enormously smashed all the sectors of economy. At the same time for some professionals it has been easy to adopt work from home and continue business and office work as usual. But for education system the times have been challenging around the world which has changed the classroom learning patterns. However because of Covid-19 experts are induced to rethink about the standard mode of education. Digital education could be a operable solution to fill in the gap of classroom education for a period of few months as it could minimize the threat of infection among the students until the schools and colleges resume. Mainly digital education has also brought forward its previous outlying issue in India to focus. In future, digital education will be an integrated part of mainstream education. Because of this there will be enabled inclusive education for students learning across diverse geographic conditions in India. E-learning will provide various opportunities for educators to come forward with personalized learning solutions for each student. But this situation has immerged with many pros and cons for students, teachers and parents which have to be addressed for overall development of students.

Key words: Benefits of on online education, Forth coming opportunities in education, Covid 19 and education, Challenges of online education

#### INTRODUCTION:

The world wide pandemic has forced the overall countries to temporarily close the educational institutions. In India this closer has impacted over 91% of the worlds' student population. In this disastrous time UNESCO has come forward to support countries in their efforts to alleviate sudden impact of school closures, especially in more endangered and underprivileged countries, to provide education to all through e-learning. As per the UNESCO report, over 290 million students across 22 countries will be resentfully affected by corona virus. Also the UNESCO reports regarding India states that approximately 32 crores students will be affected because of covid 19 from schools as well as colleges. (1, 2)As there are many obstacles in the sudden change in learning styles it has also opened the door to new opportunities.(3) In fact it is remarkable that the urgent demand for e- learning has been a contributing factor for providing more new educational resources to students in both urban and rural areas.

Because of pandemic the government has endorsed operating education in an online mode to stop the educational loss of students and avoid the disturbance in academic calendars. Fortunately technology and smart classrooms is transforming education in not only private schools also cautiously encroaching in government schools. Therefore it could be said that elearning is now gradually transforming the education sector. (4) This positive transformation is seen in schools and colleges of urban as well as rural areas who are trying to adapt the technology eventually and are ready to transform the traditional education into a digitally-enhanced process.

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Though the online learning have numerous benefits still it has to cross many obstacles in its way of making whole education a digital phenomenon. Even today when we are talking about **Digital India**, Internet connectivity and electricity supply in rural areas is a big issue (5)

E-learning has immerged with many trump cards, as physical boundaries are no barriers in digital learning for students, there are many learning experiences in digital learning than the traditional learning, Students learn in their enclosed comfort zone in a very low cost effective manner. (6) As Covid 19 pandemic has brought many new opportunities of digital transformation in education;

#### FORTH COMING OPPORTUNITIES IN EDUCATION SECTOR:

Indian Education Ministry has introduced New Education Policy 2020 that highlights the growing need of online education in India. (7) In this Pandemic period education system has been challenged and at the same time gave birth to new opportunities in the world of online education. It has become necessary that we should be ready to accept alternate mode to our traditional education system.

#### Massive Open Online Course (MOOC):

MOOC courses are the <u>online courses</u> that is meant for immense engagement in education through open access via internet. (8) MOOCs provide <u>interactive courses</u> along with traditional course materials used, such as video lectures, readings, and <u>problem sets</u>. To motivate group discussions among students and teachers, forums or social media discussions along with immediate feedback to quick quizzes and assignments are used in MOOC courses. MOOCs are designed after along research in <u>distance education</u>.(9) They were first introduced in 2008,(10) and has now become a popular mode of learning (11,12,13)

#### · Use of Remote Teaching/Learning:

Teaching / Learning through communication platforms like zoom meet, Google meet and Microsoft Teams has immerged as a use full platform for gaining education for students worldwide. Remote learning is beyond traditional classroom, there is no compulsion of physical presence of both the teacher and the student. Instructions to students are provided to students through technical tools like discussion boards, virtual classrooms, virtual assignments and video conferencing.(14) The best example is Google classroom which is becoming very useful mode of teaching and learning for both student and teacher in any tricky situation.

#### Developing Virtual Labs

Indian government has taken initiative in developing digital platforms like SWAYAM, SWAYAMPRABHA and DIKSHA because of it virtual labs will be now developed in educational institutions for students to practice the theoretical knowledge and experiential learning experiences.

#### Accessibility of Courses in Different Regional languages

India is a miscellaneous language that varies with each state so it becomes necessary to provide education to students in their native language. Televisions, community radio and radio are best option for the task that will be used for telecasting and broadcasting educational programs for the students who could be able to access the digital media in their native regional language.

#### Creation of Digital Depository, Content Designing and Communication

For providing digital education to students it is necessary to create digital depository including Learning through Games & Simulations, Practical and elevated Reality. Construction of some playful learning tools like motivation games of Indian traditions, culture and art will be helpful for giving moral education. Developing a secure backup system to provide the dissemination of e-content to students is necessary.

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#### · Formation of Blended Learning Models

In traditional learning the importance of direct face-to-face learning is inevitable and uncompromised. So while promoting digital education it is necessary to develop the curriculum in blended model while replacing the traditional modes of learning.

#### Constitution of Devoted Unit for Digital Education

MHRD is basically working for development of human resources and improvement in education from primary to higher education in India. So it is requisite that it should form a unit that will look after the needs of digital education with the team of experts from the field of primary and higher education, education technology, e-governance, digital pedagogy, administration and Information Technology. (15)

#### Use of social media for online education:

Social media is playing a vital role in digital education. Various education institutions are adapting these changes to develop teaching learning mechanism. They are anticipating on group resources such as Facebook, Instagram and Twitter for getting academic information and connecting to other learning groups by social media plugins. LMS is a best option for getting online tutorials through social network (16)

#### > KEY CHALLENGES FOR ONLINE EDUCATION IN INDIA

There are some common challenges that were considered while preparing the new education policy. Some of them are provided below. Various challenges are also the inevitable part of it which has to be discussed to improve digital education system for future of students especially in rural areas.

- Computer literacy is the major problem. More than 30 % population is computer illiterate.
- In rural areas every one cannot afford computers, Laptops or Android Mobiles specially farmers and labors.
- In rural areas Internet Connectivity and continues power supply is a vast spread problem.
- There is deficiency of proper training of teachers for providing digital education to students one of the sudden. The most important of all is than it is not necessary that a good traditional teacher will be a good digital teacher.
- There are various limitations for conducting online examination in India so student online assessment is a big issue.
- Some subjects and courses like arts, drama, math and science could not be completely
  digitally taught because it restricts the practical knowledge.
- Many colleges and universities conduct certification courses with conventional learning this concept is seen to be lost to some extent in E-learning.
- Students IQ level, Physical environment, mental state and physical status and activeness differ with each students for students under 17. Under such circumstances developing self-concentration for e-learning is a matter of concern.
- Complete makeover of schools in rural areas as per the needs of Digital education still need more time.
- Unforeseen introduction of e-learning has confused all parents, teachers and students.
   Time and awareness regarding benefits of e-learning is needed.
- Because of sudden exposure there is lack of E-learning study material in regional language. Standardized E-Content and pedagogy has to be developed.

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- Because of E-Learning exposure of children to screen timing has been increased this is a major issue of concern for parents.
- In higher education experimental research has been negatively affected. Social face to face interview based researches is also affected because it could not be substituted.
- In rural areas because of lack of digital infrastructure in schools and homes dropout rate of students especially girls has been raised.
- Adolescent students are getting distracted by gaming apps, other social media stuff, are getting involved in mal practices and developing a non community sense in them.
- Mental health of children is severely affected. Anxiety, Frustration and Panic is being developed regarding acceptance of e-learning.

#### BENEFITS OF ON ONLINE EDUCATION:

The term online education puts forth the idea of electronic learning. For e-learning computer and other similar devices are necessary. Online learning demands technology innovation and Internet access for providing educational material or sources, to students. This new form of education has immerged with various challenges but on the other side of coin there are benefits too.

#### Online education is time efficient and cost effective

Online education is classroom free, education could be provided to students anywhere and anytime with ample study material and diverse knowledge. This saves money and time spent on travelling by students.

#### Confinement of Knowledge is the main outcome of E-learning.

Blended learning approach and Gamification has made online education more effective and interactive for students and convenient for the teachers using both traditional and digital education. Because of it the education has become more productive, interesting and time efficient

#### Perusing the Progress of course and student becomes much Easier

Various educational institutions are implementing <u>Learning Management System (LMS)</u> for providing education in an effective manner in any situation. LMS is very useful in taking the follow up of student course progress in a more effective and easy way. Through LMS assessment of students' capabilities is effortless.

#### E-learning helps students for avoiding embarrassing situations

Not all the students have the capacity of communicating their doubts or expressing their views or asking questions in classrooms. So these students feel shy and either stay quit or become a center of attraction in class. But because of online education this situation can be avoided and student gets enough space for self improvement.

#### · Knowledge sharing is encouraged by online education

There are number of online communities that share their acquired knowledge through online discussion forums that add value to learning by integrating scope for abundant collaboration and conversation. This can flourish the E-learning

#### The target amount of student is unlimited

In traditional learning there were two main obstacles i.e. time and place. That use to limit participation of students in education. But with e-learning educators have a wide access for students because distance is no more an obstacle in providing education.

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#### Motivation to Personalized learning

Each individual student have different needs for education, personalized learning fulfills these needs of students by providing vast range of courses. These courses are designed to meet the definite learning interests, expectations and preference.

#### CONCLUSION

Covid-19 has put a stop on classroom learning sessions, and online learning has occupied its place to avoid the loss of students and academic calendar. Schools in both urban and rural areas are adapting online education system with or without infrastructure development. This has brought in front many affordable and low-bandwidth e-learning solutions with multi-lingual platform providing online learning conveniently in rural areas.

Government has come forward and adapted innovations in digital technology, this will make online education affordable and accessible. It's a fact that the pandemic has not only adversely affected the economy, but also affected the education sector in India. A year has passed and still no one is sure about when the situation will come to normal. The situation of education system is vulnerable as mass gathering could be dangerous for sake of health of students. Online classes are the substitute but with lots of opportunities and limitations

This situation may give birth to digital divide that will lead to discrimination. Student teacher interaction is a determining component of teaching and cannot be replaced by online classes. Research has been adversely affected because of the lockdown, and hence we all pray that the situation should return to normal for the betterment of education system.

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# Buddhist Cultural Studies and Literature in Modern India

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#### Abstract

Buddhism is a great philosophy and it is the third-largest religion in the world. Approximately 600 million followers and 8% of the global population are known as Buddhists. Buddhist ideology and teaching are based on originality it is traditions, beliefs, and spirituality totally based on Buddha's teaching. It originated in ancient India as a Sarmana tradition sometime between the 6th and 4th centuries BCE, spreading through much of Asia. Buddhism has two main branches that are generally recognized. Buddhism is a non-theistic religion that is not believed in God. It is just believing in reality and originality and also consider moral disciple. It is originated in India in the 5th and 6 centuries BCE. It was founded by the sage Siddhartha Gautama who, according to legend, had been a Hindu prince before abandoning his position and wealth to become a spiritual ascetic and, finally, an enlightened being who taught others the means by which they could escape samara, the cycle of suffering, rebirth, and death. Gautama Buddha has developed Buddhism and he taught Buddhism to all over the world. It was very much flourished in the period of king Ashoka. Buddhism was thought in many schools during the period of Budhha. It was only one religion that could become the world's no one religion. It is a very great religion in the world it is not a killer but a savior. It remained a relatively minor school until the reign of Ashoka the Great (268-232 BCE) of the Mauryan Empire (322-185 BCE) who embraced and spread the belief, not only throughout India, but through Southern, Eastern, and Central Asia.

#### Buddhism

Buddhism was founded by Siddhartha Gautama 2500 years ago in India. There are 470 million followers are considered approximately. Buddhism is one of the major and chief religions in the world. Its practices have historically been most prominent in east and south East Asia. But its influence is growing in the west. A lot of Buddhist Philosophies and concepts are lapsed due to the other faiths. As we know the Buddhism was founded by Siddhartha Gautama who was known as Buddha. He was surviving in the 5th century B.C. He was born into a wealthy and healthy family in present-day it is in Nepal. He had left his lavish life to search for the sorrow in the world. Although he had an easy life, Gautama was moved by suffering in the world. He had decided to give up his generous way of life and continue scarcity. When this did not fulfill him, he encouraged the thought of the life "Middle Way," which means accessible between two boundaries. Thus he required a life lacking communal extravagance but also without deficiency. After many years of searching he has got enlightenment while meditating under the Bodhi tree he spent his life under the Bodhi tree to teach his pupils the way of spiritual life.

#### Buddhism Beliefs

As Buddhists, we have experience and some key Buddhism beliefs include:

- Followers of Buddhism don't acknowledge a supreme god or deity. They instead focus on achieving enlighten a state of inner peace and wisdom.
- · The religion's founder. Buddha is considered an extraordinary man, but not a God the word Buddha means "enlightened".
- The way of enlightenment is to attain by using morality, meditation, and perception
- There are many philosophies and interpretations within Buddhism, making it a liberal and developing religion
- Some scholars don't recognize Buddhism as an organized religion, but rather, a "way of life" a "spiritual tradition".
- Buddhism encourages its people to avoid self-indulgence but also self-denial.
- Buddha's most important teachings, known as the four noble truths, are essential to understanding religion.
- Buddhists embrace the concepts of karma (the law of cause and effect) and reincarnation (the continuous rebirth).
- Followers of Buddhism can worship in temples or in their own homes.

- Buddhist monks, or Bhikkus, follow a strict code of conduct, which includes celibacy.
- · There is no single Buddhist symbol, but a number of images have evolved that represent Buddhists beliefs, including the lotus flower, the eight-spoked dharma wheel, and the Bodhi tree. The swastika was an ancient symbol whose known as well being or good, fortunate in the Sanskrit language.

## Types of Buddhism

Theravada Buddhism: is found in Thailand, Sri Lanka, Cambodia, Laos, and Burma

Mahayana Buddhism: found in China, Japan, Taiwan, Korea, Singapore, and Vietnam

Tibetan Buddhism: widespread in Tibet, Nepal, Mongolia, Bhutan, and parts of Russia and northern India. Buddhist literature is referred to or composed in either classical Sanskrit it is registered and it is called Buddhist Hybrid Sanskrit or it has been mixed of the two terms. More than a few non-Mahāyāna Nikāyas come into view to have set aside their canons in Sanskrit, the majority well-known between which was the Sarvāstivāda. There are sutras of Buddhist canon the words and teaching of the Buddha there are many numbers of noncanonical Buddhist texts that have been provided supplementary teachings rules of conduct and explanation on intermediary states after death. Buddhist culture is exemplified from first to last Buddhist art, Buddhist architecture, Buddhist music, and Buddhist gastronomy. Buddhism was expanded from the Indian sub-continent it is adopted artistic and civilized culture which was flourished in other parts of Asian countries. Buddha was passed away in the early 5th century B.C. he taught about dharma which was spread over Asia and other developed countries

#### The Foundations of Buddhism

The cultural context: Buddhism was flourished in northeastern India between the 6th century and the early 4th century BCE. It was a great social change and intense religious activity. But many modern and intellectual scholars believed that the historical Buddha lived in about 563 to 483 BCE. Many scholars believed that he was lived about 100 years later (from 448 to 368 BCE)

At the time of India, there was much disgruntlement with Brahmanic (Hindu highcaste) sacrifice and ritual. There were ascetics who were tried to create personal and spiritual religious experiences Vedas were found in northwestern India. In the Upanishads a new accent and renunciation and transcended knowledge were found in the literature was grew out of this movement. In northeastern India, it was not as much prejudiced by Vedic customs which became the propagation ground of many sects. In this area, the society was troubled due to the breakdown of tribal unity and the extension of many petty kingdoms. It is a time of turmoil, doubt, and experimentation.

#### Culture of Buddhist

Over and over twenty-five years centuries Buddhist ideas and philosophy have been guided and influenced in many parts of the world to the lives and thoughts of countless human beings. Discoveries in existence are not sufficient to give an accurate perception of life. To transport ourselves earlier to the best of an in proportion man or woman, we need to obtain, at slightest in the sketch, what is called an artistic foundation in the Buddha-Dhamma. Traditions reveal to ourselves and others what we are. It gives expression to our nature in our method of existing and of accepted wisdom, in art, religion, moral aspirations, and acquaintance. Generally verbal communication, it represents our split ends in dissimilarity to means. A sophisticated man has full-grown, for civilization comes from a word meaning "to grow." In Buddhism, the arahant is the perfect quintessence of culture. He has grown to the peak, to the uppermost promising limit, of human growth. He has emptied himself of all self-interest all voracity, abhorrence, and hallucination and embodies faultless purity and selfless sympathetic service. Things of the world do not entice him, for he is free from the repression of selfishness and passions. He makes no compromises for the sake of power, human being or community.

Such a mistaken strategy implies incredulity in karma and its belongings. Eliminate kamma and one is peripatetic. Rejection is the result of blinding voracity for speedy substance growth and physical pleasures, conjoined with hallucination about the accurate nature and providence of man and life. It also signifies approval of the philosophy of usefulness - that one should get the most that one can out of this single fleeting life on earth guided largely by one's instinct, subject to the laws of culture, which the wealthy and powerful often get around with impunity. Such a short-sighted and incorrect view, in the end, leads to character and social tension, to impatience and disagreement, and to the augment of disruptive behavior, lawlessness, and crime. Buddhism distinguishes between emotions that are productive, such as metta and karuna, and those that are unhelpful anger and jealousy, for example. It encourages the development of the former to eradicate the final. Human beings can both think and feel. When the Buddha taught the Dhamma, sometimes he appealed to reason, sometimes to emotions, and sometimes to the belief, using such means of teaching as fables, stories, and poetry.

Buddhist civilization, too, manifests in other forms than that of good nature, such as in the ground of literature the Jatakas, the Theragatha, and Therigatha, for instance, philosophy, art, architecture, and sculpture execute it. Nor does its content change with context. The collision of Buddhism on world traditions was truthfully noteworthy. In it, there is no cerebral error, based as it is

on reason and on the basis of personal understanding. It is free from right sightlessness, for its moral principles are actually superior, guided by a normal origin for such an ethic, namely, personal progress in provisions of one's own karma. It engendered no social perversity - hate and bigotry were for none, boundless loving-kindness and sympathy were for all. The doors to liberation were unlocked to anybody who wished to go in them.

Its thrilling message of reason, universal benevolence, flaming righteousness, social justice, hope, and deliverance in this very existence by one's own exertion - all had a fertilizing and liberating influence on thought and action wherever Buddhism spread

To the thinking individual, Buddhism offered a normal, sensible, and impartial way of release from all life's sorrows, and the confidence of the perfectibility of man, here and now exclusively by one's own attempt. To the humanist, it gave a comprehensive sympathetic hallucination, inspirational ameliorative achievement as a pre-condition for the understanding of the highest religious attainments. Even to have a universal thought of its achievements, in the various ways it has expressed itself in civilization, is a teaching in the art of living wage. Buddhism gives the perception to the total of life. Nothing in life is seen as more significant than it actually is. A sophisticated Buddhist can tell the good from the bad, the right from the incorrect, and the true from the false. He can consider the proof competently, and his Buddhist educational environment makes his decision a wise one.

#### Introduction

Buddhism intersects with contemporary literature at a large number of junctions. In all its assortment of forms, schools, and relocations, the teachings of the Buddha carry on to come into view in the literary educational harvest of the 20th and 21st centuries. The harvest of this meeting bears the marks of modernity such as globalization and secularization. For modern literature, this translates into the dissolution of Meta narratives, the blurring of boundaries, including genre boundaries, and a selfreflexivity that highlights issues of identity. Where current literature intersects with Buddhism there is a face up to and conciliation with conventional cosmologies in arrangement with the valorization of the boring. Due to the worldwide temperament of contemporary literature, there is also an everpresent possibility of unpacking ideological belongings in the form of colonialism, socialism, imperialism, Marxism, and Orientalism.

Buddhist finances form an important part of Buddhist society. Buddhist Economics does not work to maximum consumption but human well-being, which dishonesty in a simple, resolute, and compliant life, in which legal livelihood is earned. Human beings must stay behind correct to their convention and pass up money-oriented tracking down. Perfunctory and superfluous work that

deprives the soul of meaningful recognition is looked down upon, while also much free time also is not accepted. Women's flattering part of the vigorous workforce is a measured breakdown of the financial system, as women have to go away looking after the children to spoil in financial way-fare, while the children are intended for. The culture focuses on bodily and coherence, but religions do on holy and illogical. Religious diversity threatens the unity of the different nations in Southeast Asia because religion defines people's beliefs, values, and behaviors. They ran away from the huge population to the slightest population. Religion a particular system of faith and worship. Both culture and religion are social constructs. Religions influence cultures, cultures influence religions. Southwest Asia is the crib of three great monotheistic systems. Judaism and its offshoots Christianity and Islam. Judaism, found in the eastern Mediterranean region some 4,000 years ago, posits an agreement linked between God-the source of celestial law-and humanity.

The most important religions in the subcontinent are Hinduism, Islam, Sikhism, Buddhism, and Christianity. The percent of the more than 1.29 billion people who put into practice each of them. Most of the people of South Asia practicing Hinduism in language religion custom, tradition, and they are divided into many sects.

#### Buddhism and healthcare

In Buddhism, most people are giving priority to their mental health which is of supreme importance for them. They must strive to improve this by practicing non-violence and nonparticipation from sexual misconduct and dishonesty.

However, Buddhist traditions do acknowledge physical ill-being. Hurting and anguish are predictable like death, for which taking any form of medicine is not forbidden. The medicine taken should not be invigorating or concern the cleamess of mind anyway. Any bodily ill-being must be endured with endurance and resoluteness, as any form of bodily anguish allows time for selfreflection and sacred progress. The best way to heal an illness is to get better one's diet by committed vegetarianism, thoughtful of the non-violent way of living. Buddhism also lays great pressure on fasting on particular days which helps invigorate the bodily and religious being. Any form of organ move has been viewed as the highest form of kindness as well.

#### **Buddhist literature**

Throughout his life span the Buddha taught not in Vedic Sanskrit, which had become incomprehensible to the people, but in his own NE Indian vernacular, he also confident his monks to spread his teachings in the dialect. After his death, the Buddhist standard was formulated and transmitted by spoken custom, and it was written down in quite a lot of versions in the 2d and 1st cent. BC Its main divisions, called pitakas [baskets], are the Vinaya or Spartan rules, the Sutra (Pali Sutta) or discourses of the Buddha, and the Abhidharma (Pali Abhidhamma) or educational metaphysics. Also built-in is the Jataka, stories about the preceding births of the Buddha, many of which are non-Buddhist in derivation. The only inclusive Indian description of the standard now existing is that of the Sri Lankan Theravada school, in the Pali language, written 29-17 BC (see Pali). North Indian Buddhist texts were written in a type of Sanskrit predisposed by the vernaculars. Mahayana Buddhism formed its own class of sutras, and all schools of Buddhism generated a substantial body of explanation and attitude. The whole quantity of Buddhist writings were translated into Chinese over a period of a thousand years, commencement in the 1st cent. AD This was a mutual effort of foreign and Chinese monks. Its most recent version, the Taisho Daizokyo (1922-33), is in 45 volumes of some 1,000 pages of Chinese characters each. It was started the translation of Buddhist texts into Tibetan in the 7th century. It was finalized in standard form in (1290-1364) by the Buddhist historian Bu-ston) and is in two sections, the Kanjur and the Tanjur consisting altogether of about 320 volumes of Tibetan script. The Tibetan translation is particularly literal, subsequent to the Sanskrit approximately word for word and based on consistent Sanskrit-Tibetan equivalences for Buddhist conditions; thus it is chiefly useful for scholars.

Sanskrit Buddhist literature refers to Buddhist texts collected either in classical Sanskrit, in a register that has been called Buddhist Hybrid Sanskrit (BHS), or a mixture of the two. Quite a lot of non-Mahāyāna Nikāyas come into view to have kept their canons in Sanskrit, most famous among which was the Sarvāstivāda. The Buddhist standard consists of the Sutras: the words and teachings of the Buddha. There are also a number of noncanonical Buddhist texts that offer additional teachings, rules of carrying out, and commentary on in-between states after death.

#### Conclusion

It is a concern with the Buddhist culture and literature in modern India. This research paper is related to the ancient and modern literature of Buddhist culture which is alive today and flourishing day by day in the modern world. There are many scholars are doing research on Buddhist culture and its literature

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# Dr B.R Ambedkar's Thoughts on Buddhism

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#### Abstract:

Dr. B.R. Ambedkar was a National Leader who made a terrific contribution to making of the Indian Constitution. Dr. Ambedkar was a spiritual man but he did not want insincerity in the name of religion. According to him religion was morality and it should affect the life of each and everything characters, actions, reactions likes and dislikes. He experienced the bitterness of caste system in his life. He fought for caste freedom in his entire life. He left the Hinduism and accepted Buddhism as a religious solution to the problems of untouchables. Dr. Ambedkar did not accept Islam, Sikhism and Christianity and preferred to Buddhism because of two reasons. Firstly, Buddhism is a root of Indian religion and secondly, it includes ethics, morality and no place for Casteism. Dr. Ambedkar took 22 vows with his follower to accept Buddhism more than five lakh in member at Nagpur Dikshabhumi on 14th Oct., 1956. He brought great upheavals in the life of the depressed, suppressed and appressed castes in India.

Keywords: Buddhism, Dr. B.R. Ambedkar, caste, democracy, constitution. Introduction:

Dr Ambedkar, generally known as Babasaheb, helped to reconstruct Indian society through its legal and political systems. Earning four doctorates in economics, he conducted research in law, economics and politics into the lowest class of India's caste system called the untouchables, Dalits or the depressed classes, and down trodden people. British rule in India (1858-1947) and social disparity and ruling out straddle in sub-continent Indian society. Initiating the down trodden people, Dr Ambedkar frequently opposed Mahata Gandhi because he was a leader of the shudras. He was born in the Mahar caste, which was the lowest caste in Hindu class from the military town of Mhow, he got much experienced social and economic bigotry Dr. he Hindu classics, insisting that Bhimrao and his brother read the Mahabharata and Ramayana to their sisters and others at bedtime every night. When Dr. B.R. Ambedkar was 14 years old, he was attracted towards Buddha. His teacher Dada Keluskar gave him a book of related Buddha's biography and he was instantly enthralled.

Dr. Ambedkar's father Ramji Ambedkar was a good debater and strictly follows selfgoverning and he were optimistic about Dr. Ambedkar spiritual text, including Kabir and
Mahatma Phule. When Babasaheb was studying in America he was studied Buddhism thoughts
and really impressed. Babasaheb tremendously Studied Buddhism since last many years. Dr.
B.R. Ambedkar has got many references from Buddhism in his life he explained through his
speeches, writings and other areas. This is very simple and deeply understandable thoughts to
common people. Dr.Babasaheb Ambdkar gave the knowledge to his people; through his
speeches and writings it is medium of public education. Thousands of people were attending his
speeches he was explaining skillfully in simple and easy way to get to language. As well he
used the education people's skills with well-planned and handled carefully.

On the event of Buddha Jayanti there are many lecture were arranged on Dr. Ambedkar's Dhamma that is called as Dharmopadesh communication of Dhamma Dr. Ambedkar had written much more on Buddhism that is called discourse on Dhamma.

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It was focused on discourses Buddha on the event of Buddha Jayanti. It was presented before Janata in May 1941 in Marathi language. Lot of discourses is in Marathi language. There is one in Hindi and another in English language. The purpose of this speech is aimed to propagate the readers make aware of the existence and assignment of the Buddhism. It was started for the public organization on the occasion of Buddha Jayanti by Dr. Ambedkar.

#### Many times Buddha Jayanti was celebrated by Dr. Babasaheb Ambedkar

Dr. Ambedkar was celebrated Buddha Javanti in 2nd Mont of May 1950 at Delhi

In month May 19th, 20th and 21st in 1951 again at Delhi.

In Mumbai and Pune it was celebrated on 27th May 1953

In 17th May 1954

In 6th May 1955 again in Mumbai

Last one Dr. Ambedkar was attended 24th May 1956 at Mumbai.

Since those programs Dr. Ambedkar was announced on the occasion of Buddha Jayanti as public holiday when he was member of Viceroy's Executive Council.

Dr. Babasaheb Ambedkar certainly spine accurately wrote on Buddhism and he communicates to his followers. As explaining about Buddhism term Dr. Ambedkar clarify to the people what is Buddhism? And what is the purpose Buddhism to end the suffering and poverty.

Dr. Ambedkar explained the cases of suffering of people.

#### Adhyatmik Dukkha (spiritual suffering)

Its personal Dukkha arise due to own misbehavior and wrong talking. It is end with five precepts.

#### Adibhautik Dukkha(Social suffering)

Its common misery suffers due to wrong behavior, it is communal and financial suffering. This suffer can be remove ethical practice of the eightfold path.

#### Adidaivik Dukkha(suffering due to natural calamities)

In point of view of Dr. Ambedkar, Nirvana is most important in thing in man's life.

Nirvana is last and highest glory in man's life nobody can avoid it. If we have so much wealth or so much Knowledge still we cannot avoid the Nirvana.

The nirvana fire passion and hatred in Function of society oriented service and could be gave intellectual leadership and bring new cultural changes in society⁽²⁾ It seems that Dr. Ambedkar seen to democracy like western creation and he learnt many more things from them and imported it. Certainly he studied most of the European and American political philosophers' to create new democracy. He mostly inspired from the outsiders to make the Indian constitution. Probably he got the intellectual affinities from western developed countries like united states of America and England. He got the support from the westerners. In 1931 he was applied for 40,000 Pounds sterling to Europeans and Americans to help deprived people to make the Depressed Classes Institute. Dr. Ambedkar often resorted in his Marathi writings to the word manuski in English translated as humanness. There are many variant in his writings for Buddhist culture. Dr. Ambedkar was very spiritual person he thought that religion is an essential for the progress of human life. He was strong minded with his ideas for social consideration. He left Hindu religion accepted Buddhism because impartiality was innate in Buddhism. He thought that Hindu religion cannot flourish in any way. He told about Hindu religion when Brahmin woman give birth a child, her eyes are concentrated on the high court and Supreme Court judge where it is vacant post. Instead of when poor woman give birth a child, her eves are focused on a post of on fourth class post.

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It is only because of Varna system; Varna system is responsible for such type of things: Prosperity, richness, sacredness can be found in only Buddhism.

When Buddha said, to his pupils you came from different countries and castes: Rivers are flowing from their countries and provinces when rivers meet to the sea they forget their names and identity. The Buddhist Sangh is like an ocean all are equal. Dr. B.R. Ambedkar urges that the rise of Buddhism in India was a very symbolic and significant like French Revolution this is not only social implication it is also political implication. Buddhism gives us freedom of thoughts and freedom of self-development. He declares one of his speech about his philosophy which is depends on these three words Liberty, Equality and Fraternity. Dr. Ambedkar has borrowed his philosophy from the French Revolution. It is religious philosophy not political and it has been derived from teaching of Buddhism. In Buddhist philosophy includes liberty, equality and fraternity is the highest place in Buddhism. It is only real safeguards to against the denial of liberty, equality and fraternity this is sign of brotherhood also called humanity it is included in religion.

Buddhism is based on the democracy in this religion Dr. Ambedkar has found the communal principles he tried to inculcate in democracy. Since 1919-1950 he tried to improve the Indian society to make more fraternal sense of human relations to assemble them by arguing the favor of new unity in nation. Dr. Ambedkar got inspiration from the European and American scholars. Buddhist teaching is not invention of the West it is created by Indian history. In 25 November 1949 Dr. Ambedkar was presented the final draft of Indian Constitution to the Assembly which was passed in 26 January 1950. He pointed out that being parliamentary constituency India comes back in Buddhist root, India did not known parliaments or parliamentary procedure. A learning of the Buddhist Bhikshu Sanghas opened at that time parliamentary procedure for Sanghas to take education with rules and regulations it is observed that in present time. The rules of parliaments like seating provision, rules concerning Motions, Resolutions, Quorum, Whip, Counting of Votes, Voting by Ballot, Censure Motion, Regularization, Res Judicature, etc. (3)

#### Dr Ambedkar's Later Belief in Buddhism:

Dr Ambedkar was a open-minded human being he expressed religion as having numerous meanings bereft of true morality. God is a name stemming from supernatural magic, evolving into prayers for the soul. Dhrama is moral thing it is basic reality of the social nature. Dharma made the society which is personal religion undercuts hence Dharma is offered to society to make government instruments make liberal and it is led the society i.e Dharama government which is safe when the Buddha appreciated in equating dharma wit integrity and asset both as holy. Ambedkar's approach to dharma as a social explanation is very practical and outer looking in being rule based rather than based on stuff and laws of the outer space. He disliked Hinduism and protected the liberation of the obedient people. Simply rules of dharmas which are simply lives in true Buddhism. Therefore he think as a Buddha but also as a Maitreya. As today, although he rejected the term when alive, people's hero Baba Saheb was called a bodhisattva. (4)

#### Dr Ambedkar's relevance today and in the wider world:

Why should be important of Dr. Ambedkar's philosophy for the living and understanding of oppressed class toady it is not only India it is important in worldwide. He firstly mentions social reality how it is applying for each and every person, secondly his point of view those people who are oppressed, thirdly Dr. Ambedkar said the condition of the poor people who are working in the social system under which they lived. Obliviously the question

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is asks to the downtrodden people Who are we?', "What is our identity?" but 'how are we treated?' and 'why?'

Further he told in the world his people are called various names Dalit, downtrodden the broken we have to follow Dr. Ambedkar's two things which are very important.

He said firstly do not separate two things from social inequality from economic inequality or caste from the class. Really Dr. Ambedkar was only one person in the world who was very bond to his rights authorities for oppressed class people. Second thing is the oppressed people were separate from the society and economy they were not treated as human being. Dr. Ambedkar was very orthodox about Hindu religion and varna system. He gave up the thoughts of untouchably he said it is just cultural or religious matter. He fought for the rights of downtrodden people.

It is need to address marginalized is commitment of the international Sustainable Development Goals to finish the poverty in all categories and decrease the inequality of chances to supply polite work for all the forms people. Dr Ambedkar challenged to the global by three ways. Firstly

Policy makers should be exactly faces the realities of the social difference discriminations and marginalization of certain people of society particularly on the caste basis. Secondly they have to listen and take the experience of that marginalized group and make their concerns as part of national priorities. Third they have to understand their condition and take the decision on their problem which they facing in free India. Dr Ambedkar points to caste as one such system, not only in India but internationally. (8)

On December 6, 1956, Dr. Babasaheb Ambedkar attained immortality. Jawaharlal Nehru said that, B R Ambedkar always fought for the social justice and inequality for the backward people. He did well he had framed the Indian constitution he died in 6th December 1956 at his home Delhi it is called Mahaparinirvan Diwas and cremated him at Bombay Dadar Chowpathy beach it is called Chatya Bhoomi lakhs people were attended that cremation with grieves. It is holy place where all the categories people can go there it is all for open this palce is also called ideals, cherish Equality Liberty and Fraternity it is symbol of calm and peace. Every more than 4 to 5 lakhs people visits to this place for expressing the gratitude's and pay their respect to Dr. B.R. Ambedkar Dr. Ambedkar was born on 14th April 1891 at Mhow town which in now at Indore in Madhya Pradesh state. He was born in Mahar caste which is in Maharashtra state it is untouchable caste. His father was Ramji Sakpal who was very strict by his nature and he was follower of Saint Kabir hence he never believed in caste system. He was first untouchable Indian who went to abroad to take the higher education. He got the Ph.D. in 1917 from Columbia University. During his Ph.D. he went to London to take the admission of Law, economics and political science.

He got the degree Master of Science in 1921 and also he completed Ph D degree with entitled of 'The Problem of the Rupee' from London University he completed simultaneously Bar at Law in 1923. Dr. Ambedkar was started the practice of law and devoted himself for the depressed class. In 1930 he became the president of All India Depressed Class Association and later he formed Independent Labour Party. In1936 it was converted into All India Scheduled Castes Federation. In 1942 he became the member of the Council for Governor General. 3rd August 1949, he had taken charge of Law Minister in India, further in 1955 he formed Buddhist society of India frequently he was talking and feeling to him depressed class has no pride and prestige in Hindu religion it is reflected in his speech and writings. Dr. Ambedkar struggled very much and did hard work he was thinking as him in second generation do not want to do

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the struggle not facing the same problems which he had faced. Accepted humiliation, severe discriminations, insults caste discriminations. He did study outside sitting the class room he never studied in class room due to untouchable. His entire schooling life was sitting the outside of class still he became winner.

Dr. Ambedkar was not habitual to any single habit he never touched any habit there was only one habit that is to read books and write books. He very much loved the books. He studied eighteen hours a day as student and statesman. He was only one great person on this planet who constructed home for only books the name of 'Rajgruha' it is located at Dadar at Mumbai. Dr. Ambedkar had got many opportunities in abroad and also India but he left because he want to do the work for the poor and downtrodden people he wanted to bring out them from the darkness to the light make them educated give them Knowledge. Dr. Ambedkar was a great personality in the world who made new in India. His message is to young generation Educate, Agitate and Organize. He taught us what is possible, individually and collectively he was great social reformer, politician, lawyer, teacher, mass pioneer and as human being. He must be spirit of Indian constitution must be ideal for all the Indian people.

Now Dr. Ambedkar is not alive but his way is very pioneer and sacred he devoted to himself for us. He situated all over the world who is follower of Buddhism and Ambedkarism. We are very fortunate Dr. Ambedkar was born in India here many caste discriminations, slavery capitalism all those are removed by Dr. Ambedkar through drafting the Indian constitution, he gave fundamental right every common man by giving the right of vote. We need Dr. Ambedkar's thoughts not Gandhi it is common thinking nowadays. He wanted to spread the Buddhism in entire India and the every corner of the world but before that he left us. He rejected violent Karl Marx philosophy and accepted Buddhism which is symbol of calm and peace. He is situated in our heart blood, blood cell and the last drop of the blood will call Dr. B.R. Ambedkar we never forget to him. (6)

#### Conclusion:

Dr. Babasaheb Ambedkar was very great personality in the world. He was huge personality who created new Indian constitution and gave the justice to all class groups who were slave, poor, beggar, backward social-economical he done the job well in his entire life he became the 'Massiha' of Dalit and poor people. He never concentrated on his family in his entire life his many children's were died but he did not lost his goal because once he said all Dalits are my family and they are children. He was born in Hindu religion but not died as Hindu his oath he has completed. Dr. Ambedkar was very much impressed by the thoughts of Gautama Buddha, Mahatma Jyotirao Phule & Sant Kabir and he followed them. Dr. Ambedkar finally accepted the Buddhism and his Buddhism was rational Buddhism. He was struggled and handworker I am repeats this sentence again because who will read this article from the young generation they have taken the inspiration from Dr. B.R. Ambedkar.

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# Impact of Buddhist culture and literature in India

Dr. Korde Rajabhau Chhaganrao

Abstract:
Buddhism is a great philosophy in the world. Buddhism is the world's fourth. Buddhism is a great philosophy in the Buddhism is a great philosophy in the global population, known largest religion with over 520 million followers, or over 7% of the global population, known largest religion with over 520 million followers a variety of traditions beliefs and second hargest religion with over 520 million followers, a variety of traditions beliefs and spiritual as Buddhists. Buddhism encompasses a variety of traditions beliefs and spiritual as Buddhists. Buddhism encompasses a stributed to the Buddha and resulting interpreted practices largely based on original teachings attributed to the Buddha and resulting interpreted practices largely based on original teachings. As a Sarmana tradition sometime between the 6th philosophies. It originated in ancient India as a Sarmana tradition sometime between the 6th philosophies. It originated in ancient though much of Asia. Two major extant branches of and 4th centuries BCE, spreading through much of Asia. Two major extant branches of and 4th centuries BCE, spreading introger. Buddhism is a non-theistic religion (no belief Buddhism are generally recognized by self-the same and a moral discipline, originating in India in in a creator god), also considered a philosophy and a moral discipline, originating in India in in a creator god), also considered a philosophy the sage Siddhartha Gautama (the Buddha), the 6th and 5th centuries BCE. It was founded by the sage Hindu prince before the 6th and 5th centuries BCE. It was tourished, had been a Hindu prince before abandoning c. 563 - c. 483 BCE) who, according to become a spiritual ascetic and, finally, an enlightened being who his position and wealth to be which they could escape samara, the cycle of suffering, rebirth and death. The Buddha developed the belief system at a time when India was in the midst of and death. The publish and philosophical reform, Buddhism was, initially, only one of many schools of thought which developed in response to what was perceived as the failure of orthodox Hinduism to address the needs of the people. It remained a relatively minor school until the reign of Ashoka the Great (268-232 BCE) of the Mauryan Empire (322-185 BCE) who embraced and spread the belief, not only throughout India, but through Southern, Eastern, and Central Asia.

#### Buddhism:

Buddhism is a faith that was founded by Siddhartha Gautama ("the Buddha") more than 2500 years ago in India. With about 470 million followers scholars consider Buddhism one of the major world religious. Its practices have historically been most prominent in east and south Eag Asia. But its influence is growing in the west. Many Buddhist ides and philosophies overlap with those of other faiths.

Founder of Buddhism: Siddhartha Gautama, the founder of Buddhism who later became known as" the Buddha," lived during the 5th century B.C. Gautama was born into a wealthy family as a prince in present day Nepal. Although he had a easy life, Gautama was moved by suffering in the world. He decided to give up his lavish lifestyle and endure poverty. When this did not fulfill him, he prompted the idea of the life "Middle Way," which means existing between two extremes. Thus he sought a life without social indulgence but also without deprivation. After six years of searching, Buddhists believe Gautama found enlightenment while meditating under Bodhl tree. He spent the rest of his life teaching others about how to achieve this spiritual State.

# Buddhism Beliefs:

# Some key Buddhism beliefs include:

1) Followers of Buddhism don't acknowledge a supreme god of deity. Thay instead focus on achieving enlighten a state of inner peace and wisdom. When followers reach this spiritual echelon, they are said to have experienced nirvana.

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The religion's founder. Buddha considered an extraordinary man, but not a god the word Buddha means "enlightened".

The path enlightened is attained by utilizing morality, meditation and wisdom.

a. There are many philosophies and interpretations within Buddhism, making it a tolerant and evolving religion.

 Some of scholars don't recognize Buddhism as an organized religion, but rather, a "way of life" a "spiritual tradition".

Buddhism encourages its people to avoid self-indulgence but also self-denial.

Buddha's most important teachings, known as the four noble truths. are essential to understanding the religion.

7) Buddhists embraces the concepts of karma (the law of cause and effect) and reincarnation (the continuous of rebirth).

Followers of Buddhism can worship in temples or in their own homes.

Buddhists monks, or Bhikkus, follow a strict code of conduct, which includes celibacy.

10) There are no single Buddhist symbol, but a number of images have evolved that represent Buddhists beliefs, including the lotus flower, the eight- spoken dharma wheel ,the Bodhi tree and the swastika(an ancient symbol whose name means "well- being" or " good fortune" in Sanskrit).

Types of Buddhism:

Theravada Buddhism:

Prevalent in Thailand, Sri Lanka, Cambodia, Laos and Burma

Mahayana Buddhism:

Prevalent in China, Japan, Taiwan, Korea, Singapore and Vietnam

Tibetan Buddhism:

Prevalent in Tibet, Nepal, Mongolia, Bhutan, and parts of Russia and northern India.

Sanskrit Buddhist literature refers to Buddhist texts composed either in classical Sanskrit, in a register that has been called "Buddhist Hybrid Sanskrit" (BHS), or a mixture of the two. Several non-Mahāyāna Nikāyas appear to have kept their canons in Sanskrit, most prominent among which was the Sarvāstivāda. The Buddhist canon consists of the Sutras: the words and teachings of the Buddha. There are also a number of non canonical Buddhist texts that provide supplementary teachings, rules of conduct and commentary on transitional states after death. Buddhist culture is exemplified through Buddhist art, Buddhist architecture, Buddhist music and Buddhist cuisine. As Buddhism expanded from the Indian subcontinent it adopted artistic and cultural elements of host countries in other parts of Asia. The Buddha died in the early 5th century B.C. His teachings, called the dharma, spread over Asia and developed into three basic traditions:

The Foundations of Buddhism

Buddhism arose in northeastern India sometime between the late 6th century and the early 4th century BCE, a period of great social change and intense religious activity. There is disagreement among scholars about the dates of the Buddha's birth and death. Many modern scholars believe that the historical Buddha lived from about 563 to about 483 BCE. Many others believe that he lived about 100 years later (from about 448 to 368 BCE). At this time in India, there was much discontent with Brahmanic (Hindu highcaste) sacrifice and ritual. In northwestern India there were ascetics who tried to create a more personal and spiritual religious experience than that found in the Vedas (Hindu sacred scriptures). In the literature that grew out of this movement, the Upanishads, a new emphasis on renunciation and transcendental knowledge can be found. Northeastern India, which was less influenced by Vedic tradition, became the breeding ground of many new sects. Society in this area was troubled by the breakdown of tribal unity and the expansion of several petty kingdoms. Religiously, this was a time of doubt, turmoil, and experimentation.

For over twenty-five centuries, Buddhist ideas and ideals have guided and influenced the lives and thoughts of countless human beings in many parts of the world. As lay Buddhists, our own experiences and discoveries in life are not enough to give a true perspective on life. To bring ourselves closer to the ideal of a well-balanced man or woman, we need to acquire, at least in outline, what is called a cultural grounding in the Buddha-Dhamma. Culture reveals to ourselves and others what we are. It gives expression to our nature in our manner of living and of thinking, in art, religion, ethical aspirations, and knowledge. Broadly speaking, it represents our ends in contrast to means. A cultured man has grown, for culture comes from a word meaning "to grow." In Buddhism the grahant is the perfect embodiment of culture. He has grown to the apex, to the highest possible limit, of human evolution. He has emptied himself of all selfishness all greed, hatred, and delusion and embodies flawless purity and selfless compassionate service. Things of the world do not tempt him, for he is free from the bondage of selfishness and passions. He makes no compromises for the sake of power, individual or collective.

Such a misguided policy implies disbelief in komma and its effects. Reject kamma and one is rootless. Rejection is the result of blinding greed for quick material gain and sensual pleasures, conjoined with delusion about the true nature and destiny of man and life. It also signifies acceptance of the philosophy of expediency -that one should "get the most that one can" out of this single fleeting life on earth guided largely by one's instincts, subject to the laws of society, which the affluent and powerful often circumvent with impunity. Such a short-sighted and mistaken view ultimately leads to individual and social tensions, to restlessness and conflict, and to the spread of indiscipline, lawlessness, and crime. Buddhism distinguishes between emotions that are constructive, such as metta and karuna, and those that are destructive: anger and jealousy, for instance. It encourages the cultivation of the former to eliminate the latter. Human beings can both think and feel. When the Buddhn taught the Dhamma, sometimes he appealed to reason, sometimes to the emotions, and sometimes to the imagination, using such means of instruction as fables, stories, and poetry.

Buddhist culture, too, manifests in other forms than that of a fine character, such as in the field of literature the Jatakas, the Theragatha and Therigatha, for examples philosophy, art, architecture, and sculpture. Kill it. Nor does its content change with context. The impact of Buddhism on world culture was truly significant. In it, there is no intellectual error, based as it is on reason and on the bedrock of personal experience. It is free from moral blindness, for its ethics is truly lofty, guided by a rational basis for such an ethic, namely, personal evolution in terms of one's own kamma. It engendered no social perversity hate and intolerance were for none, limitless loving-kindness and compassion were for all. The doors to deliverance were open to anyone who wished to enter them. It's thrilling message of reason, universal benevolence,

flaming righteousness, social justice, hope, and deliverance in this very existence by one's own exertion all had a fertilizing and liberating influence on thought and action wherever Buddhism

spread.

To the thinking person, Buddhism offered a rational, practical, and balanced way of deliverance from all life's sorrows, and the certainty of the perfectibility of man, here and now solely by one's own effort. To the humanist it gave an all-embracing compassionate vision, inspiring ameliorative action as a pre-condition for the realization of the highest spiritual attainments. Even to have a general idea of its achievements, in the manifold ways it has expressed itself in society, is an education in the art of living. Buddhism gives perspective to the whole of life. Nothing in life is seen as more important than it really is. A cultured Buddhist can tell the good from the bad, the right from the wrong, and the true from the false. He can weigh the evidence skillfully, and his Buddhist cultural background makes his judgment a wise one.

Introduction:

Buddhism intersects with modern literature at a multitude of junctions. In all its various forms, schools, and geolocations, the teachings of the Buddha continue to appear in literary cultural products of the 20th and 21st centuries. The products of this convergence bear the marks of modernity such as globalization and secularization. For modern literature this translates into the dissolution of meta narratives, the blurring of boundaries, including genre boundaries, and a self-reflexivity that highlights issues of identity. Where modern literature intersects with Buddhism there is a challenge to and negotiation with traditional cosmologies in juxtaposition with the valorization of the mundane. Due to the international character of modern literature, there is also an everpresent chance of unpacking ideological baggage in the form of colonialism, communism,

imperialism, Marxism, and Orientalism.

Economics or the way in which work life is organized and the demands of production are met form an integral part of any culture. Buddhist economics forms an integral part of the Buddhist culture. Buddhist Economics does not work to maximum consumption but human well-being, which lies in a simple, purposeful and dutiful life, in which rightful livelihood is earned. Human beings must remain true to their heritage and avoid materialistic pursuit. Mechanical and redundant work that deprives the soul of meaningful pursuit is looked down upon, while too much leisure also is not approved of. Women becoming part of the active workforce is considered failure of the economic system, as women have to leave looking after the children to indulge in economic way-fare, while the children are untended for. The cultures focus on physical and rational, but religions do on spiritual and irrational. Religious diversity threatens the unity of the different nations in Southeast Asia because religion defines people's beliefs, values, and behaviors. They ran away from the large population to the least population. Religion: a particular system of faith and worship. Both culture and religion are social constructs. Religions influence cultures, cultures influence religions. Southwest Asia (the Middle East) is the cradle of three great monotheistic systems: Judaism and its offshoots Christianity and Islam. Judaism, founded in the eastern Mediterranean region some 4,000 years ago, posits a covenant relationship between Godthe source of divine law-and humankind. The major religions in the subcontinent are Hinduism. Islam, Sikhism, Buddhism, and Christianity. The shart below shows the different religions in South Asia and the percent of the more than 1.29 billion people who practice each of them. The majority of the people in South Asia practice Hinduism. Like language, religion has also divided the people of South Asia.

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Buddhism and healthcare:

For Buddhism, mental health is of supreme importance and individuals must strive towards improving this by practicing non-violence and refraining from sexual misconduct and lying. However, Buddhist traditions do acknowledge physical ill-being. Pain and suffering are inevitable like death, for which taking any form of medication are not prohibited. The medicines taken should not be intoxicating or affect the clarity of mind any way. Any physical ill-being must be endured with patience and steadfastness, as any form of physical suffering allows time for self-reflection and spiritual progress. The best way to cure a disease is to improve one's diet by practicing vegetarianism, reflective of the non-violent way of living. Buddhism also lays great stress on fasting on special days which helps revitalize the physical and spiritual being. Any form of organ transplant has been viewed as a supreme form of generosity as well.

Buddhist literature:

During his lifetime the Buddha taught not in Vedic Sanskrit, which had become unintelligible to the people, but in his own NE Indian dialect; he also encouraged his monks to propagate his teachings in the vernacular. After his death, the Buddhist canon was formulated and transmitted by oral tradition, and it was written down in several versions in the 2d and 1st cent. BC Its main divisions, called pleakas [baskets], are the Vinaya or monastic rules, the Sutra (Pali Sutta) or discourses of the Buddha, and the Abhidharma (Pali Abhidhamma) or scholastic metaphysics. Also included are the Jataka, stories about the previous births of the Buddha, many of which are non-Buddhist in origin. The only complete Indian version of the canon now extant is that of the Sri Lankan Theravada school, in the Pali language, written 29-17 BC (see Pali). North Indian Buddhist texts were written in a type of Sanskrit influenced by the vernaculars. Mahayana Buddhism produced its own class of sutras, and all schools of Buddhism generated a considerable body of commentary and philosophy. The entire corpus of Buddhist writings was translated into Chinese over a period of a thousand years, beginning in the 1st cent. AD This was a collaborative effort of foreign and Chinese monks. Its most recent edition, the Taisho Daizokyo (1922-33), is in 45 volumes of some 1,000 pages of Chinese characters each. Translation of Buddhist texts into Tibetan was begun in the 7th cent. The final reduction of the canon was by the Buddhist historian Bu-ston (1290-1364) and is in two sections, the Konjur (translation of the Buddha's word) and the Tanjur (translation of treatises), consisting altogether of about 320 volumes of Tibetan script. The Tibetan translation is extremely literal, following the Sanskrit almost word for word and based on standardized Sanskrit-Tibetan equivalences for Buddhist terms; thus it is particularly useful for scholars.

Sanskrit Buddhist literature refers to Buddhist texts composed either in classical Sanskrit, in a register that has been called "Buddhist Hybrid Sanskrit" (BHS), or a mixture of the two. Several non-Mahāyāna Nikāyas appear to have kept their canons in Sanskrit, most prominent among which was the Sarvástiváda.

The Buddhist canon consists of the Sutras: the words and teachings of the Buddha. There are also a number of noncanonical Buddhist texts that provide supplementary teachings, rules of conduct and commentary on transitional states after death.

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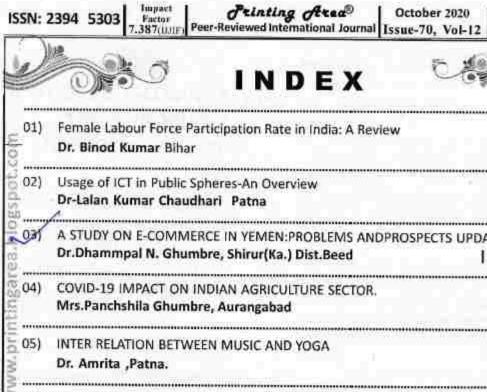
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03

# A STUDY ON E-COMMERCE IN YEMEN:PROBLEMS ANDPROSPECTS UPDATE

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#### INTRODUCTION:

The internet is becoming inevitable. Technology has shaped every aspect of lifesocial, economic, political, and lifestyle. There are new uses of the internet every day. This paper addresses the internet use in Yemen. It discusses the untapped potential of ecommerce. Currently, Yemen is considered behind the rest of the world regarding its internet use, connectivity, and awareness (Alwazir&Zheng, 2014). There are many opportunities online that can open doors for the people of Yemen.

# INTERNET TECHNOLOGY INFRASTRUCTURE

The internet technology infrastructure in Yemen started in 1996. Tele Yemen started dialup services. Today, there are ADSL, 3G mobile data connections, satellite internet, leased lines, and dial ups. Average speed is 1MB per second; the minimum is the 56K and the maximum home use is 4MB and for business around 10MB on leased lines. The average monthly subscription fee is around \$20 per month for 16GB of bandwidth on a 1MB

speed.The Information and Communication Technology (ICT)Table 1 shows statistics to compare Yemen with other countries regarding information and communication technologies.

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Sources: Federal Communications Commission, USA; Ministry of Industry and Information Technology, China; Ministry of Industry and Information Technology, Brazil; MCIT, Indonesia; ITU estimate, Yemen. Data as of 2013.

Table 1: Information & Communication Technologies in different countries in comparison with Yemen

# GOVERNMENT

An e-government for Yemen can make a significant development in a short time. Egovernment can fight corruption, increase productivity and efficiency, involve stakeholders, improve policy development, and ensure transparency (Bhat, 2014). The government of Yemen faces several challenges in implementing e-government. Yemen is among the lowest ranking countries all factors set by the United Nations (Al-Aghbari et al., 2015; Al-mamary, Shamsuddin, & Aziati, 2015) to be ready for such mechanism. These challenges range from leadership and management (Al-wazir&Zheng, 2014) to cost of development and infrastructure. Online services in Yemen is the most needed index to be enhanced ( an A. Ali & Zhao, 2012). The government has a telecommunication cabinet that supervises the development of telecommunications and information technology. The government is currently the only monopoly over internet service providing via its two entities Tele Yemen and Yemen Net. While

Tele Yemen has a majority ownership by the government, Yemen Net is entirely owned by the government. Because of the monopoly, Internet users complain of the lack of speed, services, affordability, and even availability of internet access.

#### E-COMMERCE ADOPTION:

Adoption challenges in Yemen are due to several factors. First, issues of poverty and illiteracy are preventing youth from accessing the internet. Issues of trust and awareness are also other reasons preventing individuals and groups from participating in the internet (Al Rawabdeh, Zeglat, & Alzawahreh, 2012). The limited access to the payment systems did not present the internet as an opportunity rather a source of transaction fees to pay.

#### RESEARCH QUESTION

What are the challenges and problems preventing Yemenis from utilizing e-commerce and other online payment systems, and what recommendations can be suggested to address those challenges?

The answers to this research question provided a description of the current status of the internet use in Yemen. It also provided the current consumer behavior online, the main reasons behind transacting online, and the current overall status.

#### METHODOLOGY

This section presents what methods were used and why they were chosen, a preview of the sampling process, ethical considerations, generalizability, reliability and validity indicators, plus the weaknesses and obstacles faced during the research

The research process included two parts. The first part was qualitative and exploratory in nature to identify the current challenges and prospects that e-commerce in Yemen is facing. Qualitative study was conducted via a focus group of 5 participants. Each of the participants is a current entrepreneur and a heavy internet user who have bought and sold products or services online for at least the past five years. The results of the qualitative focus group were then developed into a quantitative survey to measure and examine the current state of ecommerce in Yemen.

The first phase included a focus group that discussed the current challenges for buyers and sellers to work from Yemen. The driving question to the focus group was the main challenges and opportunities individuals in Yemen can gain from e-commerce. The discussion generated the questions necessary to be answered in the second phase.

#### **FINDINGS**

The research included two components. The qualitative part generated the main challenges and prospects for e -commerce in Yemen. On the other hand, the quantitative part generated an examination of the survey responses to the survey.

#### QUALITATIVE RESULTS

The qualitative research included a focus group that looked into several concerns. These issues had to do what the challenges and prospects of e-commerce in Yemen. The questions contained in the panel discussion looked at the current status of e-commerce in Yemen. It asked the following questions:

1.What do people use the internet for?

2.Who are the users of the internet?

3.Do they buy from the internet?

4.If Yes,

a.What do they buy and what for?

b.Where do they buy from?

c. How do they buy?

d.Why do they buy?

e.What factors makes them buy online?

f. How they pay online?

g. How they receive their products?

If not,

a.Why not?

b.What to buy if you want?

6.Why don't people participate in ecommerce?

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7.What risks are associated with ecommerce?

8.What difficulties and challenges can prevent individuals from participating in ecommerce?

9.What should the government, financial institutions, and retailers do to smooth online purchases?

The focus group participants agreed that there were eight uses for the internet in Yemen. These included news, social media, chat, education, work, games, and music. Further analysis of these uses of the internet, users can be segmented into three categories. First are the entrepreneurs who work and shop online. Second are the socializers who chat and share on social media. The third group is those who find entertainment on the internet via music and games.

In further analysis to predict customer behavior to shop online, entrepreneurs tend to buy online, while gamers don't. There were no relationship between internet socializers and purchasing online.

The focus group discussed five primary resources needed for individuals to buy online. These resources included English language skills, having a bank account, having a credit card, having a post office box, and having internet access at home.

The focus group focused on the ability to purchase online as an indication of the individual's capacity to conduct e-commerce activity and engage in economic activities on the internet. Therefore, it was also important to look at those who purchase online and identify their perceptions of the internet purchasing experience.

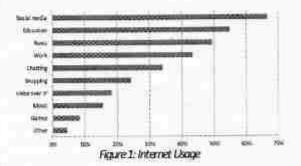
The focus group suggested investigating those who currently buy online. The results of the discussion highlighted these questions: what they buy, where from, how they buy, why they buy, how they paid, and how they received their goods. All of the developed themes in the focus groups were categorized in the developed survey to measure the extent of generalizability of these perceptions.

#### QUANTITATIVE RESULTS

The quantitative result is a summary of all the questions in the survey. The following paragraphs list the research questions and a description of the answers. Additional analysis is provided.

#### WHAT DO YOU USE THE INTERNET FOR?

The survey asked respondents about their current use of the internet. Figure 1 shows a very high use of the internet in social media, and news. Online education seems to be an opportunity.



### HAVE YOU BOUGHT ANYTHING ONLINE?

To understand the challenges and prospects of e-commerce, it was important to check how many people have conducted any transaction online. A purchase online is an indicator of trusting the internet to take part of one's physical world. The survey responses show around 45% of the respondents have bought something online.

While only 60% of these purchases were direct purchases where the individual user bought from a website using their payment method, around 20% have purchases via a friend. Another 20% have purchased online via a third party.

Currently, many entrepreneurs have established the buy from America business model. The business is signing up for a freight forwarder in the USA. They take local shoppers'

orders and cash, process these purchases, deliver and collect a transaction fee. The growth of this business model seems to be a good indicator of the increasing demands for the value provided by the internet.

# WHY DO YOU BUY ONLINE?

The survey investigated the current perceptions about purchases online. The focus group agreed on six primary reasons individuals buy online. The survey results shown in Figure 2 shows that price and availability are the main drivers for online purchases. This goes along with the ubiquity nature of the internet.

Why did you buy online?

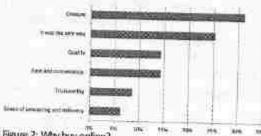


Figure 2: Wity buy online?

The opportunities the Internet offers enormous benefits in savings, new products, and services, 15% started to see the Internet more trustworthy as they buy direct. Less than 5% began to shop online for standard consumer products. A case shows that buying electronics from the internet is cheaper than buying it locally, given the expensive shipping and handling fees. **BUY FROM WHERE?** 

The focus group suggested checking where survey respondents purchase from. The objective is to get a feel of the local, regional, and international distribution channels. The study results indicate that the foreign retailers are dominating the internet. Local and regional retailers had a slight percentage. The online auction ebay.com ranked number one in the list as shown in Figure 3.

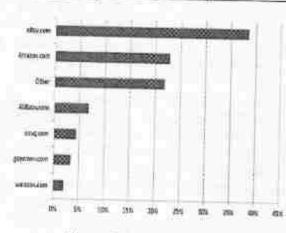


Figure 3: Buy from where? CONCLUSION

E-commerce can provide opportunities for employment, consumer savings, and productivity. Reliable e-commerce infrastructure is needed such as internet speed, post services, logistics services, payment means, and protection. Awareness programs are required to overcome ecommerce concerns. Local ecommerce businesses got around 5% of purchases, which is an excellent opportunity for entrepreneurs to tap this market.

This paper provided a brief presentation of what challenges and prospects the internet and ecommerce ecosystem is facing in Yemen. The number of individuals who purchase online is relatively increasing. A high number of individuals still use their friends and third party companies to take the responsibility to buy, pay, and deliver goods and services from the internet. Individuals can gain much from the internet. The internet offers information, access to technology, the verity of products and services, news and communication, and entertainment. People in Yemen are interested in shopping online, learning from the internet, and get their work done.

Those who have not purchased online are facing infrastructure challenges such access to reliable payment systems. Global payment system providers not only provide comfortable

and convenient payment services, but also offer protection against cyber crimes, protection against fraud, and help consumers be aware of the internet associated risks.

Yemen transportation and logistics services lack value to smooth internet business. The transportation cost seems to be a major challenge to online shoppers. Many still use third party entities to get their products delivered. International carriers appear to be gaining from the Yemen market for delivery. Yemen's postal services seem to be losing a market opportunity.

Yemen legal framework needs to provide regulations to smooth online business transactions. Also, it needs to offer protection against known cybercrimes. The government of Yemen has to enable the development of ecommerce needed infrastructures such as internet access, electric power, transportations, and financial services.

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# REASONS AND EFFECT OF LABOUR MIGRATION: A CASE STUDY OF MARATHWADA REGION

#### Introduction:

Migration is shift from a place of residence to another place for some length of time or permanently including different types of voluntary movements. It has great impact on economic, social, cultural and psychological life of people, both at place of emigration as well as of migration (Kaur, 2003). In India the labour migration is mostly influenced by social structures and pattern of development. Uneven development is the main reason of migration along with factors like poverty, landholding system, fragmentations of land, lack of employment opportunities, large family-size and natural calamities. The high-land man ratio, caste system, lawlessness and exploitation at native place speed up the breakdown of traditional socioeconomic relations in the rural areas and people decide to migrate to relatively prosperous areas in search of better employment and income. Diversification of economy and increased land productivity in certain areas, rapid improvement in transport and communication means, improvement in education, increase in population pressure and zeal for improving living added momentum to the mobility of population in India (Roy, 2011). Those who migrate to new areas experience certain socio-psychological problems of adjustments with the residents of place of migration.

The relationship between migration and work has been transformed in recent decades. Between 1990 and 2017, international migration flows increased from 153 million to 258 million. Immigration to high-income countries, particularly for work-related purposes, has accounted for the majority of this growth (United Nations, 2017). While there are many drivers of these trends, they have been facilitated in part by labour migration policy changes including the growth of temporary and employer-sponsored visa schemes and the introduction and expansion of cross-border labour mobility zones (Castles et al., 2014).

Nevertheless, compared to goods, services and capital, where cross-border trade and movement have been liberalised substantially, there remain considerably greater constraints upon the free movement of labour (McGovern, 2007). Changes to immigration policies, including changes enabling the expansion of migrant labour supply, have produced major political challenges Policymakers in many countries have recently struggled to balance the perceived disruptive impacts on jobs and communities with the potential economic benefits. The pivotal role that negative public attitudes towards immigration played in Donald Trump's presidential election in the USA, the Brexit referendum in the UK and the ascent of far-right parties across Europe exemplifies this (Gumbrell-McCormick and Hyman, 2017).

Nonetheless, the institutionalist focus of an employment relations analytical lens brings key advantages for analysing migration and work issues. While these issues have been relatively neglected within employment relations research compared to other disciplines, several employment scholars have made relations important contributions to migration research in particular areas. These include understanding why migrant workers are channelled into particular workforce segments (e.g. Piore, 1979; Waldinger and Lichter, 2003), identifying the reasons for discrimination against migrants in workplaces and the labour market (e.g. Taksa and Groutsis, 2010; Yu, 2019); analysing particular types of management practices in workplaces and industries where

migrant workers are concentrated (e.g. MacKenzie and Forde, 2009; Thompson et al., 2013); examining the strategies and policy positions of unions and employer associations towards migrant workers (e.g. Marino et al., 2017; Wright, 2017); and analysing state and community strategies to ensure that migrants' employment rights are enforced (e.g. Clibborn, 2019; Fine and Bartley, 2019).

# What explains the association between migrant labour and low-quality work?

The workplace and labour market experiences of migrants are highly diverse. In virtually all countries, migrants are represented across all professional and occupational fields, all industries and all levels of seniority (Bauder, 2006). Human resource management and international business scholarship focuses particularly on highly skilled migrants who are either "self-initiated expatriates" who move countries of their own volition or else are employed by multinationals and posted to international offices as "assigned expatriates" (e.g. Andresen et al., 2014, Guo and Al Ariss, 2015; Zikic, 2015).

Since these groups of migrants tend to have a high degree of agency and individual bargaining power, the concerns of this scholarship relate mainly to core human resource management processes among highly skilled migrants, such as remuneration, training, recruitment and selection; outcomes relating to their job performance, employee satisfaction and organisational learning; and issues relating to workplace and social integration amongst workers moving across borders (e.g. Collings et al., 2009). While there are notable exceptions (e.g. Almeida et al., 2012; Turchick Hakak and Al Ariss, 2013), marginalisation and mistreatment of these workers are generally treated as secondary concerns within these fields.

# Three approaches to rethinking migrant labour and low-quality work

To account for why migrant labour tends to be associated with low-quality jobs, we need to examine supply-side (or worker-centred), demand-side (or employer-centred) and policy- and institution-related (or state-centred) factors.

#### Worker-centred accounts

As noted earlier, economic scholarship, particularly that informed by orthodox theories, has dominated research on the intersection of migration and work (McGovern, 2007). Such theories have also had a considerable influence on labour migration policy outcomes, as discussed in the following. This body of research, however, is yet to provide a convincing account for the persistent vulnerability of migrant workers to mistreatment and marginalisation. In recent years, reports of migrant workers being underpaid and poorly treated have increased in countries such as Australia, the USA and the UK (e.g. Berg and Farbenblum, 2017; Ram et al., 2017; Weil, 2018). Economic theories, and the policies they inform. tend to suggest that such outcomes are generally the result of an 'information asymmetry between temporary migrant workers and their employers" (Productivity Commission, 2016; 30). This

assumes that migrants have less access to information about labour market conditions and their rights under employment law than their employers. From this perspective, addressing this information imbalance is the key to resolving problems of migrant work exploitation.

Theories from employment relations and related fields, such as political economy and sociolegal studies, suggest that there are several factors aside from access to information that affect migrants' working conditions and their position in the labour market. The particular professions and occupations that migrants are qualified for, and whether these qualifications are recognised in the host country, can affect their opportunities within the labour market (Groutsis, 2003). Migrants who possess specialised and recognised qualifications in demand tend to be more able to find highquality and high-income employment, and thereby avoid precarious work scenarios constrained by other factors including immigration rules, skill recognition procedures, language barriers and discriminatory practices. By contrast, migrant workers without recognised sought-after qualifications tend to have fewer options in the labour market, which is likely to push them towards low-wage, poor-quality jobs (Bauder, 2006; Dauvergne, 2016; Walsh, 2014).

In this context, as Fine and Bartley (2019) discuss in this special issue, new forms of non-traditional collective representation, such as worker centres and community organisations, have emerged to connect with migrant workers in ways that traditional representative structures may

inhibit (see also Alberti et al., 2013; Lopes and Hall, 2015). The success of these new organisational forms may be partly due to their resonance with a more diverse workforce who see their identities as constructed primarily through their communities outside of work, rather than at the workplace (Yilmaz and Ledwith, 2017), The article by Yu (2019) in this special issue examines how identity and the related concept of cultural conformity can impact on migrant workers careers and their inclusion or exclusion at the workplace. There is scope for future research to examine how identity can be mobilised individually and collectively to improve migrant workers' position within the workplace and the labour market

Piore's theory has influenced subsequent research on the working conditions of migrant workers (e.g. Krings et al., 2011; McCollum and Findlay, 2015; Waldinger and Lichter, 2003). However, Clibborn's (2018) study of international students in Australia identifies a 'third frame of reference of the peer group of other migrant workers. In this third frame, the prevailing norms regarding acceptable wages and working conditions are not informed directly by those of either the home or the host country, but by what is deemed acceptable within the peer group. Further research is needed to examine whether additional frames of reference exist among other categories of workers, and how these can be potentially identified and harnessed as part of efforts to improve migrant workers' position within the labour market.

#### Employer-centred accounts

While the characteristics of labour supply are important for understanding the susceptibility of migrant workers to mistreatment and marginalisation, so too are characteristics of demand. The following discussion focuses on three demand-related characteristics: control, perception and skills.

While useful for assessing supply-side issues. Piore's (1979) application of segmented labour market theory also provides an important perspective on why employers may develop a preference for hiring migrant workers. Piore finds employers who disproportionately recruit migrant workers develop preferences for workers whom they can control in order to reduce or contain unit labour costs. This control may be associated with numerical and temporal flexibility in terms of the ability to hire and fire migrant workers more easily and to adjust working hours in response to changes in production schedules. Migrant workers are more willing to tolerate these conditions, according to Piore, because of their relative lack of alternative options for employment, and because their frames of reference lead to lower expectations compared to other groups of workers. as discussed earlier (Piore, 1979; see also Clibborn, 2018). Subsequent studies have broadly supported Piore's arguments (e.g. Bauder, 2006; McDowell et al., 2008).

Addressing skills shortages is another common theme of research on why employers recruit migrant workers. This is particularly the case among studies of higher skilled migrant labour (e.g. Hawthorne, 2013; Khoo et al., 2007). These skills shortages are typically understood within scholarship and defined in visa regulations in terms of 'hard skills' or the qualifications required for particular professions. Research has also pointed to migrant workers' possession of superior 'soft skills' or interpersonal competencies, such as the ability to communicate or to work constructively with colleagues, to explain employer preferences (e.g. Moriarty et al., 2012).

Other studies indicate that the 'soft skills' employers use to account for their recruitment of migrant workers can be a smokescreen for a desire to recruit workers over whom they can exert control (Ruhs and Anderson, 2010). For instance, a recent study of the hospitality industry found that employer claims of the superior soft skills of migrant workers related to attributes created by the conditions of sponsored temporary visas. These conditions made it difficult for these workers to exercise voice or exit the employment relationship and led employers to perceive them as more loyal (Wright et al., 2019).

#### State-centred accounts

The state plays a critical role in mediating the intersection between migration and work. There is considerable cross-national variation in immigration selection rules and procedures established by governments that determine which migrant workers are permitted entry into a labour market (Boucher and Gest, 2018). The relative strength or weakness of national employment laws, labour market institutions and enforcement

regimes can be critically important for determining whether migrant workers enjoy the same rights and opportunities as citizens and permanent residents, or whether they are likely to be underpaid at work and marginalised in the labour market (e.g. Fudge, 2014; Lever-Tracy and Quinlan, 1988). The following discussion reviews research on the state's role in mediating the migration-work relationship in terms of the association between migrant labour and lowquality work. In particular, it examines the following themes, the trend towards demanddriven policy, visa rules and residency status, the enforcement of employment laws; the influence of labour market institutions; the gaps between policy objectives and outcomes, and the gendered dimensions of labour immigration policy.

#### Conclusions

The study has revealed that most of the migrants were in the age of thirties and forties, belonged to general castes with faith in Hindu religion, were mostly illiterates and migrated in the first decade of 21st century. Nearly 62 per cent of the migrants were earning a monthly income of 3000-5000. Low wages and rain-fed agriculture in the native place have been found the economic factors leading to migration, while poverty, poor civic amenities, leading a poor life, high aspirations and demonstration effect were social and psychological factors resulting to migration. Before migration, about 23 per cent persons were unemployed and 60 per cent were getting less than 250 days employment per year, but after migration, 41 per cent got more than 300 days of

employment and 31 per cent got employment for 250-300 days. As far as income is concerned, before migration 49 per cent migrants were earning less than 10000 per annum, while after migration 34 per cent could earn more than 50000 and 28 per cent could get between \ 40000 and 50000 per annum. Nearly 58 per cent longterm migrants sent 50-70 per cent of their income as remittances back home. A general perception of the farmers regarding migration of labour was that it has resulted in increased supply of labour, decreased wage rates and increased social tension. crime, drug menace and cultural invasion. Despite this, Marathwada farmers preferred migrant labour due to their timely availability, quality of work and low wages. Some farmers preferred local labourers due to their trust worthiness and adjustment for advance payments. Among various farm operations, migrant labourers were preferred for transplanting of paddy, while for harvesting, threshing, cattle tending, sowing, spraying, hoeing and tractor driving local labourers were preferred by most of the farmers. Also, with migration of labour there was a significant decline in the harvesting charges of wheat transplantation charges of paddy and annual rates of contract of a permanent labourer.

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### Effect of COVID-19 on Economy in India

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#### Abstracts:

The outbreak of COVID-19 brought social and economic life to a standstill. In this study the focus is on assessing the impact on affected sectors, such as aviation, tourism, retail, capital markets, MSMEs, and oil. International and internal mobility is restricted, and the revenues generated by travel and tourism, which contributes 9.2% of the GDP, will take a major toll on the GDP growth rate. Aviation revenues will come down by USD 1.56 billion. Oil has plummeted to 18-year low of \$ 22 per barrel in March, and Foreign Portfolio Investors (FPIs) have withdrawn huge amounts from India, about USD 571.4 million. While lower oil prices will shrink the current account deficit, reverse capital flows will expand it. Rupee is continuously depreciating. MSMEs will undergo a severe cash crunch. The crisis witnessed a horrifying mass exodus of such floating population of migrants on foot, amidst countrywide lockdown. Their worries primarily were loss of job, daily ration, and absence of a social security net. India must rethink on her development paradigm and make it more inclusive. COVID 19 has also provided some unique opportunities to India. There is an opportunity to participate in global supply chains, multinationals are losing trust in China. To 'Make in India', some reforms are needed, labour reforms being one of them.

Keywords: Paradigm, pandemic, portfolio,

migrants, shrink.

#### Introduction

The Indian economy was expected to roll over Rs. 32,000 crore (us\$ 4.5 billion) every day during the first 21 days of complete lockdown which was declared following the coronavirus outbreak. Under complete lockdown Less have quarter of Indies \$2.8 trillion economic movement was functional.

The outbreak of COVID-19 has impacted nations in an enormous way, especially the nationwide lockdowns which have brought social and economic life to a standstill. A world which forever buzzed with activities has fallen silent and all the resources have been diverted to meeting the never-experienced-before crisis. There is a multi-sectorial impact of the virus as the economic activities of nations have slowed down. What is astonishing and worth noting is an alarm bell which was rung in 2019 by the World Health Organization (WHO) about the world's inability to fight a global pandemic, A 2019 joint report from the WHO and the World Bank estimated the impact of such a pandemic at 2.2 per cent to 4.8 per cent of global GDP. That prediction seems to have come true, as we see the world getting engulfed by this crisis.

In another report entitled 'COVID-19 and the world of work: Impact and policy responses' by International Labour Organization, it was explained that the crisis has already transformed into an economic and labour market shock, impacting not only supply (production of goods and services) but also demand (consumption and investment). International Monetary Fund's (IMF) chief said that, 'World is faced with extraordinary uncertainty about the depth and duration of this crisis, and it was the worst economic fallout since the Great Depression'. The IMF estimated the external financing needs for emerging markets and developing economies in trillions of dollars. India too is groaning under the yoke of the pandemic and as per news reports in Economic Times published on 23 March 2020,

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the economists are pegging the cost of the COVID-19 lockdown at US\$120 billion or 4 per cent of the GDP (The Economist, 2020).

This COVID-19 pandemic affected the manufacturing and the services sectorhospitality, tours and travels, healthcare, retail, banks, hotels, real estate, education, health, IT, recreation, media and others. The economic stress has started and will grow rapidly. While lockdown and social distancing result in productivity loss on the one hand, they cause a sharp decline in demand for goods and services by the consumers in the market on the other, thus leading to a collapse in economic activity. However, lockdown and social distancing are the only cost-effective tools available to prevent the spread of COVID-19. Governments are learning by doing, as it was in the case of success of containment strategy in Bhadwari district, Rajasthan, India, the economic risks of closing the economy remain nonetheless. Similarly, flattering the caseload curve is critical for economy at large, but it comes with an economic cost.

#### Objective of study:

- To study economic situations in lockdown period
- To study the various sectors problems
   Research methodology:

The study is based on secondary information. The data is collected from various sources such as planning commission report, economic survey, Annual reports of agriculture and other reports published by the government of India. Compound annual Growth Rate (CAGR) has been calculated to analyze the trends in agriculture production and industrial and service sector role in development in India. The study has used theoretical analysis and explanation of tables, comparison between initial period

#### Significance of the study covid-19 pandemic:

With an increasing number of coronavirus cares the government has locked down transport services, closed all public and private offices factories and restricted mobilization based on recent studies. Some economist has said that there is a job loss 40 million people (MRD reports) in the country, mostly in the unorganized sectors.

The covid-19 epidemic is the first and foremost human disaster in 2020 more than 200 countries and territories have contra med effective medical cases caused by corona virus declared pandemic by the WHO recent growth rate care globule has accelerated to more than 1200000 covid -19 confirmed care and more than 66.000 death till April 2020 as we have already acknowledge that depression land high unemployment with 21 – day lockdown announced by prime minister of India on march 23. 2020 it would slowdown the supply side accelerating the slowdown further and jeopardizing the economic wellbeing of millions Impact on Tourism, Aviation and Retail:

The tourism industry is the worst affected due to the COVID crisis, internationally. The World Tourism Organization (UNWTO) (2020) estimations depict a fall of 20–30 per cent in international tourist arrivals. These figures too are based on present circumstances and are likely to increase or decrease in future. Millions of people associated with industry are likely to lose their jobs. In India, the travel and tourism industry is flourishing and is contributing sizably to the economy.

The FICCI-Yes Bank report titled 'India Inbound Tourism: Unlocking the Opportunities' described India as a tourism powerhouse and the largest market in South Asia. Tourism in India accounted for 9.2 per cent of GDP and had generated US\$247.3 billion in 2018, with the creation of 26.7 million jobs. Currently, it is the 8th largest country in terms of contribution to GDP (Jagan Mohan, 2020). According to the report, by 2029, the sector is expected to provide employment to nearly 53 million people. Foreign Tourist Arrivals (FTAs) crossed 10 million in 2017. However, the coronavirus pandemic has

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restricted international mobility and the revenues generated by this sector will take a major toll on the GDP growth rate. It may bring a downfall of 0.45 per cent in the growth rate of GDP.

The aviation sector in India currently contributes US\$72 billion to India's GDP. Foreign tourist arrival has been down in the first quarter. The lockdown will have a significant impact on arrivals in the second quarter. If we estimate a conservative 25 per cent decline in the contribution of the aviation sector, it will amount to 18 billion. Railways contributed US\$27.13 billion in 2019 to GDP. A 21-day lockdown period will bring down the revenue by US\$1.56 billion. The Indian retail industry was worth US\$790 billion in FY 2019. It accounts for over 10 per cent of the country's GDP and around 8 per cent of employment. In the past few years, online retail has seen a very rapid growth and the market projections had indicated a 30 per cent growth in online retail in 2020 (National Investment Promotion and Facilitation Agency, 2020). A month-long shutdown for retail will affect the Quarter 2 revenues. In the retail sector, the suppressed demand has a tendency to revive very fast and this will enable the sector to recover the losses once the lockdown is lifted. Online retail was operational in some parts of the country during the lockdown period and this will help in offsetting some of the losses for the industry.

#### Impact on GDP Growth Rate:

While the COVID-19 pandemic is constantly growing and showing little signs of containment as of 15 April 2020, its adverse impact on economic growth of the country will probably be very serious. The UN warned that the coronavirus pandemic is expected to have a significant adverse impact on global economy, and most significantly, GDP growth of India for the present economy is projected to decline to 4.8 per cent (United Nation 2020). Similarly, the UN 'Economic and Social Survey of Asia and the

Pacific (ESCAP) 2020 reported that COVID-19 would have extensive socio-economic consequences in the region with inundate activities across borders in the areas of tourism, trade and financial linkages (United Nations, 2020).

Economic Survey 2019-2020 had provided advance estimates for growth in real GDP during 2019-2020 at 5.0 per cent, as depicted in Table 1, as compared to the growth rate of 6.8 per cent in 2018-2019. The nominal GDP is estimated at 1 204,400 billion in 2019-2020 with a growth of 7.5 per cent over the provisional estimates of GDP (190,100 billion) for 2018-2019. (Economic Survey, 2020, p. 100) On 28 February 2020, the National Statistical Office announced revised estimates of GDP growth, from 8 per cent to 7.1 per cent in the first quarter, from 7 per cent to 6.2 per cent in the second quarter and from 6.6 per cent to 5.6 per cent in the third quarter. Goldman Sachs estimated the growth rate of GDP at 1.6 per cent, declining by 400 basis points because of 21-day lockdown (Goldman Sachs, 2020). In case of a quick retraction of COVID-19 pandemic across the globe by mid-May, KPMG India estimated India's GDP growth in the range of 5.3 per cent to 5.7 per cent. In second scenario where India controls the virus spread but there is a significant global recession, the growth may be between 4 per cent and 4.5 per cent. KPMG India in its report estimated India's GDP growth rate falling below 3 per cent if the virus spreads further in India and lockdown sees an extension (KPMG, 2020). Motilal Oswal research suggests that a single day of complete lockdown could shave off 14-19 basis points from annual growth (Oswal, 2020). Barclays reported the cumulative shutdown cost to be around US\$120 billion, or 4 per cent of GDP (Barclays, 2020). Mr Yashwant Sinha, former Finance Minister of India, estimated the cost of 21-day countrywide lockdown at 1 percentage point of GDP. The global recession and uncertainties of future

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might make a 2 percentage point decline in growth rate (for 2020–2021) possible.

## Table No: 1 Growth of GVA and GDP at Constant Prices (2011—2012) Percentage

	Justice Chie	201100	100 mg Tog	dermanage from Change be growth rate as 2020-22 excelled thicmes by a managed if
most of their most	11.5	8.6	1.5	4.5
Aminor of Street	(3)	9.8	17	4.0
HIRE	1.4	63	- 23	744
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AND THE STATE OF T	1.0	7	- 54	-16
Company	3.80	Attend	-12	-16
N/A/AC	61	73	8.9	-81
Transfer Person States Westerper of word State Settlement	74	3.21	1.0	14.
Principal series and	Alt .	12.	14	4
Apper administration delicate per miles result as	71.9	84	8.6	-63
Orte Sanctions	+2	141	1.	14.6
				1.1575

Source: National Statistic Office. Year 2020 Notes: RE—Revised estimates. PE—provisional estimates and AE—advanced estimates.

#### Impact of COVID-19 Pandemic on Migratory Labour:

The International Labour Organization in its report describes the coronavirus pandemic as 'the worst global crisis since World War II'. About 400 million people (76.2% of the total workforce) working in the informal economy in India are at a risk of falling deeper into poverty due to catastrophic consequences of the virus. As half of the world is in lockdown, it is going to be a loss of 195 million full-time jobs or 6.7 per cent of working hours globally. Many are in low-paid, low-skilled jobs where sudden loss of income is catastrophic (International Labour Organisation, 2020).

Seasonal migration of labour for work is a pervasive reality in rural India. A migration of millions of people happens from rural areas to industries, urban markets and farms. Major migration corridors in India are from UP and Bihar, to Punjab, Haryana, Maharashtra and Gujarat. Newer corridors from Odisha, West Bengal and North East to Karnataka and Andhra Pradesh, from Rajasthan to Gujarat, from MP to Gujarat and Maharashtra and from Tamil Nadu

to Kerala are also being created. These migrant workers are employed in the construction sector (40 million), domestic work (20 million), textile (11 million), brick kiln work (10 million), transportation, mining and agriculture (IIPS, 2001). During lockdown, 92.5 per cent of labourers have lost 1 to 4 weeks of work. A survey done by Jan Sahas, of 3196 migrant workers across northern and central India, between 27 March and 29 March, reveals that 80 per cent of migrant workers feared that they will run out of food before lockdown ends on 14 April and will not get their job back thereafter (Figure 1). The survey revealed that 55 per cent of migrant workers get a daily wage between 1 200 and 1 400, and 39 per cent of the workers get it between 1 400 and 1 600, which is below minimum wage rate. Only 4 per cent of the workers get 1 600 and above, which is close to minimum wage rate. They work in exploitative conditions, are often under debt and have little savings of their own. About 49.2 per cent of these workers in the survey said that they did not have ration and 39.4 per cent said that they had ration which would last about 2 weeks.

# Table No: 2.The impact of corona virus lockdown on India's migrant population

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Not also to pay for education	524

The survey further explains that about 99.2 per cent of these workers have Aadhaar card, 86.7 per cent have a bank account or Jan Dhan documents, 61.7 per cent have ration cards and 23.7 per cent have Below Poverty Line (BPL) cards. Although government has announced a relief package of 1,700 billion, many of them might find it difficult to avail the benefits. These workers expected the government to provide for

monthly ration and monthly financial support (Jan Saahas Survey, 2020). The crisis witnessed a horrifying mass exodus of such floating population of migrants on foot amidst the countrywide lockdown. Their worries primarily emanating from loss of job and absence of a social safety net. Despite assurance from the government, they continued to walk back to their homes. It is a saga of inequality, poverty and social exclusion of vulnerable populations struggling to overcome this sudden crisis.

The Supreme Court sought a status report from the Centre on the measures taken to prevent the mass exodus of migratory labourers to their villages. A sudden displacement of workers due to coronavirus will have far-reaching effects on the Indian economy. Some of these workers may not return to work in the industrial towns of Gurugram, Surat and Mumbai. They may seek employment in their marginal farms or in the nearby areas. The consequences of behaviour changes forced by lockdown will put pressure on MSMEs and farm sector, as labour will not be available soon after lockdown. If not properly addressed through policy, the social crisis created by the COVID-19 pandemic may also increase inequality, exclusion, discrimination and global unemployment in the medium and long term.

#### Implications on Capital Markets, Global Oil Market and its Impact on India:

Coronavirus fears have sent shock waves across global financial markets. Indian capital markets are envisaging a funds flow to Western capital markets, owing to rate cuts and fall in the stock markets the world over. As per the NSDL data, Foreign Portfolio Investors (FPIs) have withdrawn huge amounts from India—1 247.76 billion from equity markets and 1 140.50 billion from debt markets in a short span of 13 days, that is, from 1 to 13 of March 2020. There will be a lot of volatility in the capital markets in the next 6 months, owing to rapid flow of capital from one market to another in the world.

A historic drop in demand for oil has dropped the crude oil prices to an 18 year low of US\$22 per barrel, in March from US\$65 per barrel in January. Some estimates have pegged a saving of US\$7-8 billion for India for every US\$5 a barrel fall in crude oil prices. A fall in crude oil prices may cut India's current account deficit, which was 1.55 of GDP in 2019-2020 (Economic Survey, 2020). But the capital outflows from India may exceed the potential saving in the current account deficit. INR to USD average exchange rate has been 170.4 per US dollar, but it is already quoting near the psychological barrier of 175 per US dollar. If capital outflows from India continue, rupee (INR) may depreciate further in the coming days.

#### Policy and programme implications: Fiscal and Monetary Measures:

Coronavirus pandemic demands coordinated fiscal and monetary policy measures to deal with it. The fiscal measures include paying the healthcare bill raised by the pandemic. Providing for masks, gloves, testing kits, personal protection equipment, ventilators, ICU beds, quarantine wards, medicines and other equipment would mean a huge increase in healthcare spending. Public spending on healthcare in India is 1.1 per cent of GDP. It is likely to increase in the current fiscal year. The government has declared a relief package of 1 1,700 billion, it will be used to make cash transfers to the poor and vulnerable sections of the society. The sectors that are affected the most, that is, MSMEs and the farms, will be supported by another relief package which will be announced soon. Tourism and those sectors which are integrated with global supply chains will require support. Tax revenues will also drop due to recession. Fiscal receipts could drop by at least 2 per cent of GDP. All these fiscal measures will increase fiscal deficit by 1-1.5 per cent, which is currently at 3.2 per cent, as predicted by economists.

The crisis emerging from the coronavirus

spread will pull down investment and consumption demand. Conventionally, the demand side components of GDP account for 72.1 per cent consumption, out of which government consumption is barely 11.9 per cent as depicted in Table 2. An anxiety-induced reluctance to spend is the main threat to economic growth rate. The government will have to increase the spending in order to boost demand. Support to different sectors will have to be given as a measure to boost investment demand. Repo Rate has been reduced by 75 basis points, as part of a loose monetary policy. The federal reserve had cut its interest rate by 1 percentage point and decided to keep it in the range of 0-0.25 per cent in the USA. Monetary policy is less effective in dealing with a pandemic because the problem is not liquidity alone. The disruption of economic activity and the uncertainty of future bring down the investment sentiment. An anxiety-induced frugality among firms and investors wipes out the investment demand.

Which government consumption is barely 11.9 percent and as depicted table. No. 2 aroxiety included.

#### Conclusion:

The spiraling and pervasive COVID-19 pandemic has distorted the world's thriving economy in unpredictable and ambiguous terms. But it significantly indicated that the current downturn seems primarily different from recessions of the past which had jolted the country's economic order. Whereas the nations, conglomerates, corporations and multinationals continue to understand the magnitude of the pandemic, it is undoubtedly the need of the hour to prepare for a future that is sustainable, structurally more viable for living and working.

While the unprecedented situation has caused a great damage to the economy, especially during periods of lockdown, the nation will have to work its way through it, by introduction of fiscal measures. As the national government envisions, protection of both lives and livelihood is required. The economic activity must begin gradually after screening of the labour force. Strict preventive measures should be implemented by the industry in order to safeguard the health of the workers. While policy and reforms should be doled out by the government adequately to salvage the economy, the industry, civil societies and communities have an equal role in maintaining the equilibrium. The norms of social distancing, avoiding or cancelling gatherings, and use of masks and sanitizers should be the way of life till we are able to eradicate the virus. During this time, the economy is juxtaposed with social behaviour of humankind, so the responsibility of bringing back economic action is not of government alone.

The risk of a global recession due to COVID-19 in 2020 and 2021 would be extremely high, as it has been observed globally that the shutdown of all economic activities—production, consumption and trade—to control the spread of COVID-19 is imminent. The nature of shutdown is unique in case of COVID-19 due to a supply shock, a demand shock and a market shock. The recovery in economy depends on the timings and magnitude of government support as well as the level of corporate debt and how the companies and markets cope with lower demand. Government assistance to those most in need (largely constituted of unorganized sector, migrants and marginalized communities) is a critical measure to save many lives.

However, every crisis brings about a unique opportunity to rethink on the path undertaken for the development of a human being, community and society. The COVID-19 pandemic has a clear message for the Indian economy to adopt sustainable developmental models, which are based on self-reliance, inclusive frameworks and are environment friendly.

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#### AGRICULTURAL PRODUCTIVITY OF RABI MAIZE IN KOLHAPUR DISTRICT: MAHARASHTRA

Mrs.Panchshila N. Ghumbre

Aurangabad

#### 28,033,033

Introduction:

Now a day's explosively increasing population is one of the foremost challenge facing the world in general and underdeveloped and developed countries in particular. This resulted in food shortage worldwide. Inadequate production of food grain is one of the most important reasons behind food scarcity. Thus there is need to increase the agricultural production especially food grains. There are several ways to enhance the production such as advanced technologies, high yielding varieties of crops, multi crop farming etc. But these techniques further have constraint of physical and climatic conditions, socio-economic constraint, traditional methods of farming etc. due to these constraints regional imbalance in food crop production is seen all over the world. Therefore better planning developmental activities in agricultural practices are required which will help to increase crop productivity in real sense.

The agricultural productivity is considered as very complex and multidimensional concept. However, number of scholars has invented several techniques to compute efficiency in the level of agricultural productivity. Kendall (1939) has suggested a method of determining agricultural efficiency which is based on output per unit area and put forth a



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A Study of Human Resources Management Practices and its Impact on Employees job Satisfaction in Private Sector Banks: A Case Study of Yes Bank.

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ABSTRACT: In recent days of exceedingly business atmosphere organizations, they have and facing strong tasks in form of achievement and optimization of human resource. Being valuable and scarce abilities, human resources as a source of sustainable competitive advantage. The success of any organization depends on several factors and standards, but the most serious factor that affects the organization achievement and activities is its employee. Human resources play a significant role in performing an advanced and high-quality of facilities and products. This study is an attempt to determine and analyse the influence of human resource management practices on job satisfaction of banking employees in private sector. In this study, the assessment regression model identified that the HRM practices like Performance, Training, Team Work, Appraisal, and compensation has significant impact on job satisfaction. By another way, Employee Participation has no significant impact on job satisfaction of the employees of Yes bank.

Keywords: Human Resource, Training, Job Satisfaction, Achievement, Employee Participation.

#### INTRODUCTION

In recent days in an exceedingly unstable business atmosphere organization are facing strong tasks in form of achievement and optimization of human resources. Being valuable and scarce abilities, human resources are considered as a source of sustainable competitive advantage. The success of an organization depends upon several factors but the most critical factor that affects the organization's performance is its employee. Human resources play a significant role in the Performance of an innovative and high-quality product/ facility. If the employees of an organization are satisfied with their works, the organization can complete its goals very directly. In any organization, HRM practices concentrations on optimum consumption and management of their human resource effectively in order to accomplish maximum output. Managing people is concerned with determining approaches and strategies to find alternatives for how to achieve organizational goals. Khan (2010) revealed that in an energetic business atmosphere, there's a requirement of an approach to realize better performance, to originate and implement HRM practices. To a considerable and insubstantial extent, the organizations got to advance in such practices to urge a competitive benefit.

The management of human resources plays an important role in achieving the goals of the company and retaining the competitive edge. HRM procedures apply to institutional activities to control the personnel pool and ensure that resources are used to accomplish administrative aims (Schuler & Jackson 1987). Human resource management practices are that the management of individuals within the interior environment of organizations, comprises the activities, policies, and practices involved in planning, obtaining, developing, utilizing, evaluating, maintaining, and retaining the appropriate numbers and skill mix of employees to achieve the institution's objectives (Appelbaum 2001). Presently

organizations are competing through implementing the unique HRM practices and thanks to the globalization organizations adopt the foremost up-to-date HRM practices so as to accomplish the organizational goals. Best HRM practices are advantageous for both employee and employer; it plays a crucial role in constructive growth of the organization.

Job satisfaction is an attitude which is an outcome of harmonizing and summation of various precise likes and dislikes experiences with the work. Job satisfaction for an employee is that the level of satisfaction consistent with job. Job satisfaction may be a crucial indicator of how employees feel about their job and describes what proportion they're contented together with his or her job. The satisfaction level of employees also related to increase output of the organization. Job satisfaction of an employee is important to the success of a corporation. In a corporation a high rate of employee contentedness is directly associated with a lower employee turnover. Thus, keeping employees' satisfaction in their jobs with their careers should be a foremost priority for each organization. Bogdanova et al (2008) stated that HRM practices attempt to develop and

allocate human capital within the absolute best ways so as to realize long-term goals; they supply them with many benefits and good environments that might boost employee's motivation, job satisfaction, and increase their performance. Gürbüz (2009) remarked that so as to sustain within the market human resource management (HRM) practices and job satisfaction of employees have many significant benefits for organization.

#### OBJECTIVES OF STUDY

The objectives of the study is:

To determine and analyze the impact of human resource management practices on job satisfaction of banking employees in private sector.

#### REVIEW OF LITERATURE

Researchers, scholars and politicians investigated many studies over various times in order to analyze the relationship between HRM activities and work satisfaction. Many researches have shown that the main drivers of employee success are HRM behaviors and work satisfaction. The paper aims to examine the relationship between HRM activities and the satisfaction of bank employees in the private sector. Different researchers and scholars have addressed many HRM activities. In Katou (2008) conducted a study on the effect of HRM practices on Greek manufacturing organizational efficiency. The findings showed the correlation between HRM practice (resourcing and growth, rewards and benefits, participation and work design) and organization's results (skills, artitudes, behaviour) and business strategies (cost, quality, innovation). The study concluded that HRM activities are connected with corporate strategies that influence corporate performance with HRM results. Iqbal et al (2011) The study was conducted to compare public and private university HRM activities in Pakistan to managers. The research showed that in public and private colleges there was a major gap in HRM activities. HRM practiced better in public universities than in private universities, including career description, training & growth, pay, teamwork and employee engagement. Study also found that performance evaluation activities in private universities are higher than universities in the public sector. Zulfqar et al (2011) examined the relationship and essence of the relationship between HRM (compensation, appraisal of the results and promotion) and workers perceived performance in Pakistan's banking sector. Results from the study showed a positive and important link between employee expectations of success and HRM practice. Further empirical findings show that performance management and promotion

practices are relevant, but compensation practices are not substantial. A similar research was carried out on bank employees Majumder (2012) advantage an insight into present HRM practices and their effect on the satisfactory work of the employees in the private banking sector in Bangladesh. These include recruitment and selector structures, compensation packages, safety at work, job growth, training and development, management style, job design, and accountability, and incentives and motivation, and the work environment. The study found that the majority of the workers were not happy with the incentives and incentive package, Career growth, education and advancement, management style, work creation and tasks. Rehman and Hussain (2013)

Examined the partnership between the organization's HRM activities on the purpose of the corporation to remain and operate effectively.

The study showed that HRM is an individual fit, employee protection, communication and training and growth activity that contributes significantly to keeping with the organization's intentions. In addition, strong, positive connections between HRM and employee retention have been identified and these activities strengthen the retention capabilities of employees in companies. Lamba and Choudhary (2013) found that HRM activities offer an advantage to the engagement of employees towards a global strategic organizational objective. The study concluded that HRM activities such as training & growth, reimbursement, and well-being have a major impact on corporate engagement and are related to high-level organizational success that help to retain skilled workers. The effect of university lecturers' work satisfaction on their contribution to academic activities was examined at Awang et al (2010). It also specifically analyzed factors that lead to satisfaction in the workplace, namely promotion, remuneration, job climate. workloads, colleague relationships, management approach. The study showed that promotions, workload, and relationships with colleagues have a profound impact on lecturers' job satisfaction. Above all, this study confirms the essential connection between job fulfillment and employee engagement.

Universities of Pakistan's public sector Malik et al (2010)
The effect on perceived organizational involvement of
teacher satisfaction with job dimensions have been
investigated. The results of the study showed that work-towork satisfaction, supervisory efficiency, and salary
satisfaction had a big positive impact on faculty members'
organizational engagement. The study revealed that teachers

are highly organized and happy about their tasks, supervision, pay, colleagues, and promotional opportunities. Padala (2010) conducted a study to define different employee satisfaction and corporate engagement criteria. The study shows that the intensity of employee involvement in their company is positive. The employee happiness and the organization's dedication are negated both by their age, schooling, nature, a period of service, and profits. Employees with very active engagement in the union have more jobs and are more organizationally happy. Olusegun (2013) researched the impact of work satisfaction on turnover intentions among university employees in Southwest Nigeria. The study concluded that there was a significant linear combined impact of work satisfaction and sales intentions. Between work satisfaction and the desire to sell there were important ties. The research also found that the turnover of library employees by their employer was not considerably different.

Shikha (2010) analyzed HRM practices by Indian business bank employees in order to explore HRM practices which are a source of competitive and sustainable advantages. In the report, the company should prioritize long-term dedication to human capital instead of investing resources in training and development. Hock (2011) conducted a study to study the influence of human resources practices on the satisfaction of foreign employees in the PCSB group of businesses in Malaysia and gain a better understanding of this situation. The results of the study showed that only compensation for the independent variable influenced the satisfaction of foreign employees. The findings also showed that employees who only have primary education are happier with their employment. In order to find out how HRM practice influences work satisfaction, organizational engagement, and impact on the motivation to leave the project, Martin (2011) conducted an investigation. Recruitment & recruitment, incentive & rewards, training & development, and monitoring & appraisal included HRM activities. Research has found an important connection between the perception and purpose of abandonment of human capital, which can be mediated by organizational engagement and satisfaction at work.

Khan et al (2012) have examined the relationship between work satisfaction and HR practices in university lecturers in three different sectors of Pakistan's universities (public, private, and semi govt). The study found that teachers from* male universities are more satisfied with their work, but teachers from female universities are more satisfied with the HR practices. The university teachers in the public sector are more satisfied and have formed a direct correlation between experience and job satisfaction. The total relationship between HR activities and work satisfaction is positive. The relationship between HR practices (supervisor's effect, decision-making participation, and compensation policy) and employee satisfaction among Pakistan's manufacturing and service employees were evaluated by Iqbal et al. (2013). Results from the study showed a strong positive impact on job satisfaction on the supervisor's position. Participation in decision making has a less positive impact on employee satisfaction than an optimistic factor in business success.

#### RESEARCH METHODOLOGY

This research aims to investigate and evaluate the impact on the employment satisfaction of private sector banking employees of human resources management practices. In this study Yes Banks is taken as a case study by a leader of the private sector. Executives, middle managers, and yesbank managers are included in the sample units. 45 participants were interested in the research to collect knowledge on HRM activities. However, because bank employees' busy schedules and their participation in various operations have limited the number of respondents to 40. The appropriate interview method is used and the researcher shall fill out a structured schedule.

#### Methodology:

Two approaches have been used for the recent analysis. The first is the HRM practice scale Qureshi and Ramay (2006), consisting of 25 statements on preparation, teamwork, performance evaluation, compensation and staff involvement. The second form consists of 20 statements on the Singh (2001) work satisfaction scale. These instruments are found to be accurate and valid within appropriate criteria.

#### Model Specification:

for analyzing the impact of human resource management practices on job satisfaction the multiple linear regression models have applied by using SPSS. The regression model is depicted as:

$$JS_{ij} = \beta_0 + \beta_1 (T) + \beta_2 (P) + \beta_3 (TW) + \beta_4 (EP) + \beta_5 (C) + e_{ii}$$

In the above equation  $\beta_0$  is constant and  $\beta_i$  are the regression coefficient of the explanatory variables, while  $e_n$  is the residual error of regression.

#### Dependent and Independent Variables:

The dependent variable is the Job Satisfaction (JS) of bank employees in the regression model. The independent variables used in model are Training (T), Performance Appraisal (P), Team work (TW), Employee Participation* (EP) and Compensation (C).

#### Hypotheses:

For examining the impact of HRM practices on Job Satisfaction the following null hypotheses have framed.

H₀₁: Training has no significant impact on job satisfaction.

H_{i0}: Performance Appraisal has no significant impact on job satisfaction.

H₀₇: Team work has no significant impact on job satisfaction.

Hoa: Eemployees' Participation has no significant impact on job satisfaction.

H_{int}: Compensation has no significant impact on job satisfaction.

# II. DATA ANALYSIS AND INTERPRETATION Table (1) Showing the Mean Value and Standard Deviation of HRM practices and Job Satisfaction.

	s. No.	in	Max	Mean	d. Deviation
Performance	40	00	4,00	4.01	0.79
Training	40	DO .	5.00	5,00	0.45
Employee participation	40	00	3.00	2.45	0.45
Teamwork	40	po	5.00	3.80	1.18
ompensation	40	00	.00	4.47	0,35
Total HRM				4,55	
ob Satisfaction	40	00	.00	5.34	0.40

The training practices provide satisfaction to all the respondents between "small extents" to "very great extent". On an average the respondents are satisfied to a large extent from the training practices provided by the organization. The performance appraisal system provides satisfaction to all the respondents between "moderate extents" to "very great extent". On an average the respondents are satisfied to a large extent from the performance appraisal system provided by the organization. Respondents are satisfied to a small extent with the training practices and Employee participation practices offered by the Bank. The most important factor compensation showed that respondents are satisfied "to a large extent" with the salary packages and other remunerations benefits. The average value (3.55) showed that the employees are satisfied to large extent with the HRM practices offered by the Bank. The mean value of Job satisfaction showed that the employees are satisfied to a large extent.

#### Findings of Regression Model

In order to determine the existence of multicollinearity problem, the simple correlation matrix among independent variables is analyzed and presented in the table (1). Cooper and Schindler (2003) argued that a multicollinearity problem exists when correlation scores are 0.8 or greater. Table (2) Showing the Correlation between HRM and Job Satisfaction

	JS	T	P	TW	EP	C
	) Setisfaction	Trateing	Performance Approisal	on Work	Employee Participation	pentatio =
JS	1.00					
P.	0.271*	1.000		-		
Т	0.087	0.045	1.000			
w	0.754*	0.086	0.411*	.000		
EP	-0.177	0.177	-0.203	0.217	1.000	
C	0.066	0.023	0.037	).135	0.355*	000

From the table 1 it can be concluded that none of the HRM practices variables have no high correlation or presence of multicollinearity, which is above the standard rule of thumb 80%. The results from correlation analysis indicate that job satisfaction of employees is negatively correlated with employee participation and other HRM practices like training, performance appraisal, team work and compensation are positively correlated with job satisfaction. Regression Analysis Results

Table III Showing the Multiple Regressions

splanatory Variables	MATANT	T	P	TW	EP	C
Variables		raining	formance ppraisal	eum Work	mployee Ticipation	mpensation
W	0* (0.351)	3* (0.011)	-0.162 (0.074)	190* (0.000)	90* (0.048)	0.008)
(syalues :	0.964	2.631	-1.982	8.242	-2.047	2.826
R ²	3.713				Adj. R ²	9.674
F-Tost	6.21	_			Durbin Wats	on 2.214

Coefficient effect  $(\beta_i)$  is a predictor of each variable related to HRM practices. The regression analysis results reveal the following observations.

The adjusted value of R2 highlights that 67.7% variability in

the job satisfaction of employees can be explained by HRM practices (independent variables).

- The Durban Watson test value 2.244 indicates the absence of no serial correlation among the variables.
- An F-Test value is 18.22 and p-values less than 5% for the data variables indicates the very well fit of regression model. In other words, the null hypothesis (Ho: There is no effect of given explanatory variables on dependent variables) is rejected.
- The regression results highlight that performance appraisal has no significant effect on job satisfaction at 5% level of significance.
- The regression coefficients of the other independent variables of HRM practices are statistically significant at 5% significance level and they have significant influence on job satisfaction of the employees of YES Bank.

As shown in the above table the results of regression analysis can also be depicted in the regression equation form based on regression coefficients.

 $P_n = 0.720 + 0.153T - 0.182P + 0.890TW - 0.090 EP + 0.403C$ 

Based on the above equation it can be inferred that]. Performance Appraisal (P) has negative and insignificant influence on Job Satisfaction (JS), whereas Employee Participation (EP) has negative but significant influence on 2. Job Satisfaction (JS). The  $\beta_1$  is 15.3%, t-value is 2.641 which is less than p-value at 5% level of significance. Thus,  $H_{01}$  is rejected. It means Training has significant influence on Job Satisfaction in YES Bank.

The β2 coefficient shows -18.2% influence of Performance3. Appraisal (P) on Job satisfaction. But these results are not statistically significant at 5% significance level. The t-value is -1.994, which is more than p-value at 5% level of significance. Thus, H₀₂ is accepted and it is inferred that the Performance Appraisal has no significant influence on Job satisfaction.

In the HRM practices Team Work (TW) shows positive5, correlation with Job Satisfaction. The β₂ shows 89% influence on the Job Satisfaction, t-value is 82.59 and p-value is less at 5% significance level hence H₆₅ is rejected. The regression results reveal that Employee Participation6, (EP) has negative and significant influence on Job Satisfaction. The β₄ coefficient shows 9% influence on the Job Satisfaction, t-value is -2.047 and p-value is less at 5% significance level. Hence H₀₄ is rejected. Thus, it is 7, observed that in case of YES Bank e Employee Participation

has significant impact on the Job Satisfaction. The regression coefficient β₅ which measures compensation has 40% influences on Job Satisfaction of sample employees. The t-value is 2.826 and p-value is less at 5% significance level. Hence H05 is rejected

#### CONCLUSION AND SUGGESTION:

The current research is an attempt to evaluate and examine the effect on job satisfaction of private sector banking Yes Bank on human resource management workers in practices. In the recent research, the estimates of the regression model showed that the HRM practice has a substantial effect on job satisfaction, such as efficiency, training, evaluation, compensation, team work. In other words, the presence of workers has no important effect on the job satisfaction of Yes banks employees. The study suggests that Yes Bank should implement new policies to boost employee engagement at senior and middle management levels. Other activities such as preparation, evaluation of results, teamwork and compensation must be sustained and adjusted so that a high degree of employee satisfaction can be reached.

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