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WUA: Way of Water Management

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Abstract:

Water scarcity constitutes a major problem in Maharashtra. It is a very scarce resource in the north east area of the Sangli district. The size of the irrigated area has rapidly increased in recent decades but it is necessary to supervise and make audit of use of water. Even it is responsibility of government it is very essential to make awareness about the use of water among this area by their cooperative style or collective management. In this paper, the research analyse the WUA strategy of water management with some evidences. Current situation and prospects of WUA in Sanglidistrict and its need.

Key Words: water, Association, Management, Optimal

Introduction:

Since 1985 Ministry Of Water Resources has been inspiring farmers to participate in water distribution and management for its optimum use. The concept of participation of farmers in management of the irrigation system has been accepted as a policy of the Government of India and it has been included in the national water policy - 1987. The last few decades have seen dramatic change in the demand for water in India due to demographic trends and diversity of socio-economic processes. In another side it is found that supplies have also grown manifold, to keep rapidity with the demand through exploitation of surface wateras well as groundwater. Agricultural production and productivity mostly depends of continuous availability of irrigation facility. Government tried to provide water to the drought prone area through different ways but it is also necessary to use it very carefully. It is possible to make aware the beneficiaries of different irrigation projects about the optimum use of water through establishing their associations as Water Users Association (WUA).

Objectives:

To understand concepts of water management and WUA



to study importance and applications of WUA in water management

Research Methodology:

This resonen paper to the journals, articles, books, reports, websites etc. Simple satisfies of the data as per requirement. this research paper is carried out with the help of only secondary data, the information research paper is carried out with the help of only secondary data, the information research paper is carried out with the help of only secondary data, the information research paper is carried out with the help of only secondary data, the information research paper is carried out with the help of only secondary data, the information research paper is carried out with the help of only secondary data.

Water Management

that everyone has enough, and controlling water supplies and water treatment centers with is also done by the individuals at home. Good water management will involve organizing waters projects at macro level. This can be also done by local authorities like municipal corporations the best probable way. This can be done by government at major, minor and related inigating issue and appropriate strategies. The concept water management means dealing with water in management is depends on its domand and supply analysis of environment of that particular controlling organizing, etc. in order to achieve defined specific objective. The survey for washing and cleaning etc. It is one of the basic needs of agriculture production and alog-Water management is concerning with many aspects of human liveslike drinking water, water required equipments and logistics relating to water so that they work in the best possible w_{ap} . gram panelyats. It can be done by group of individuals as an organized or unorganized form h resource for the socio economic development of the region and nation. with that it is required for the industrial development. It indicates that this is a very significant the word management refers to the functions of management such as planning directly

Water Users Association(WUA):

of WUA. Government of Maharashtra has passed MMISF act 2005 (Maharashtra Management of Irrigation Systems has passed MMISF act 2005 (Maharashtra Management of Irrigation Systems has passed MMISF act 2005 (Maharashtra Management of Irrigation Systems has passed MMISF act 2005). GOM, in 1976 through Maharashtra Irrigation act, promoted registration of WUA under GOM in 1976 through wer imigation project or part of it to WUA for water management to promote participation of end user farmers in irrigation water management. This was through reform in water management in order to improve perceived gaps in irrigation performance This bottom-up organisational form of water governance aims to lead to integrated and sustainable their economic, technical and human resources for the use and maintenance of a defined watershal of Irrigation Systems by Farmers) for giving legal status to WUA?s. As on today 5026 WUAare Maharashtra) took imitative in formation of WUA and started conducting training for formation independence and formation of state, Government of Maharashtra (GOM) has taken large efforts Maharashtra is known as leading state in formation of WUA (Water User Association). After from a higher political level to the actual users of water resources for agricultural production and technical experts, WUA forms a conceptual and institutional tool to transfer water management members can range from small-scale to large commercial farmers. For policy-makers, planters including irrigation for areas like agriculture, production of livestock and fisheries also. WUA Water User Associations (WUAs) are self-governed organisations of farmers who pool

> Management of Irrigation Systems by the Farmers Act, 2005 (MMISE). population with co-operative societies themselves. WUAs were registered by the groups of the water user's co-operative Maharashtra Co-operative Societies Act. 1960 in No. (PDI). Water Adamagement, operation and maintenances of the distribution system is done by the brigation persons to operative societies themselves. WUAs were resistant to The value supplied to these beneficiaries' societies on volumetric basis by the Irrigation (PIM). Water is supplied to these beneficiaries' societies on volumetric basis by the Irrigation (PIM). Maharashtra Government has passed special Act for formation of WUA vir. Maharashtra Actual Maharashtra Christation Systems by the Farmers Act. 2005 MARION. the water user existing Maharashtra Co-operative Societies Act, 1960 till 2005. After 2005, and in covernment has passed special Act for formation of write. The Maharashtra state has a long experience of Participatory Irrigation Management

Role and Functions of WUA: A source used to manage, distribute, and conserve water jointly by the members of the Association

water or a water resource To resolve conflicts between the associations of the members related to the joint use of

Collect water user fees on behalf of the association

purpose, such as in an environmental and conservation area, or a groundwater controlled To represent the special interests and values arising from the use of water for a public

Exchange information and ideas on water resource use

Monitor water availability

diversification, marketing, finance, and savings. Provide technical assistance in areas such as soil, water, and crop management, livelihood

Discuss potential projects and developments (including climate change) that may affect

aware the users for careful use of this water resource and helps to develop cooperative approach for its optimum use which can help to plan the cropping pattern, livestock production as well as Through these above role and important functions WUA can arrange the water resource

Waghad Experience- Success story:

canal control water for irrigation. The two irrigation canals in this dam, right bank and left bank storage capacity of the dam is 72.20 M. Cum (2550 MCFT). Two canals are constructed on this water many Government of India, emphasizing the need for collective efforts by farmers for Association (WUA) of tail end farmers of the canal under a circular issued by Ministry of Water a small proportion of its actual irrigation potential and in the mid 80's dam was irrigating only about 20.25 tr while oam with masonry spillway. The maximum height of the dam wall is 47 m. and the total live Paper about The farmers made an agreement with the government on Rs. 100 stamp Association of them to come together and fight for their water quota. They formed a Water User and make::. Mr. BapuUpadhye of SamajParivartan Kendra organised the local farmers received. while total irrigable command area is 6750 Hectare. After its completion the dam could irrigate paper about assured water allotment. Since it is an 8 month system, the farmers are assured of Waghad dam was constructed in Dindori taluka of Nasik district in 1984-85. It is an earthen

शिवाकी वर्षिक २०१९/९५

Krushna Kalva, Krushna MhaishalBhag, Krushna lakariBhag, Mhaswad Kalwa, Morana, Sankh, Kalva, Krushna Kalva, Krushna Kojana, Warana Project etc. are contributed by Thembu Upasa Sinchan Yojana, Warana Project etc. are contributed by Thembu Upasa Sinchan Yojana, Warana Project etc. Kalva, Krusmur, Morana, Warana Project etc. are contributing more in the adi, Thembu Upasa Sinchan Yojana, Warana Project etc. are contributing more in the e of the district.

water in kharif and Rabi only. WUA decided that farmers will get water twice or thrice in Kharif water in kharif and Kabi beason. After this, if some water is available in the dam, then it will be and four times in Rabi season. After this, if some water is available in the dam, then it will be and four times in Kabi scapeur it will be used for summer crops. This had led to establish the faith among the farmers and soon the used for summer crops. used for summer crops. The associations, Banganga, Yogeshwar and Mahatma Phule in the farmers formed three water user associations, Banganga, the farmers' mobilization and management the farmers' mobilization and management of the farmers' mobilization and mobilization and management of the farmers' mobilization and mobilizati farmers formed unicowates required the farmers' mobilization and formed tail end villages. SamajParivartan Kendra continued the farmers' mobilization and formed 24 NUAS In bour canate federated and on 1st November, 2003 management of Wagad Dam Soon after, all WUAs were federated and on 1st November, 15000 forman Soon affer, all works meeting the WUAs Federation. At present 15000 farmers are member of 24 dam was transferred to the WUAs Federation. wilds in both canals and brought the whole command area of dam under WUAs network WUAs and are irrigating 10000 hectare land.

The most important achievement of the project is the implementation of Management of to come together and manage their irrigation sources through WUAs. It was recognition of the fact that farmers themselves can manage their water resources and was a positive step towards Participatory Irrigation Management. Waghad project team, along with other compatible organisations has actively campaigned for bringing this Act in Maharashtra. The live successful example of Waghad Project also played very crucial role in passing the above said Act in the Irrigation Systems by the Farmers Act, 2005, in Maharashtra. This Act has equipped the farmers

coordination between various institutions involving in irrigation management. This innovative participatory water management model of Waghad project can be replicated in different part of about one-third water supplied for irrigation apart from increasing productivity. This water has been used for additional area under irrigation. Waghad project has developed good rapport and judicious, timely and assured water to farming community that results into innovative and sustainable irrigation management transfer. The project level associations of Waghad saved The Cluster of Water Users Associations of Waghad project are supplying equitable. the country and also in the world

Water Management in Sangli:

annual rainfall is about 500 mm. The vegetal cover too varies from the typical monsoon forest in the western parts to scrub and poor grass in the eastern parts. It indicates that there is need to is trying to increase the coverage area of irrigation throughout the district. Number of WUA and Solapur district to the north, Vijapur district to the east, Kolhapur and belgum to the south and Ramagiri district to the west. The district is located in the river basins of mainly the Warna and Krishna river. The climate ranges from the rainiest in the Chandoli (Shirala) region, which has an average annual all of over 4000mm to the driest in Atpadi and Jath tehsils where the average divert availability of surface water resource from western part to eastern. Irrigation department Sangli district is located in the western part of Maharashtra. It is bounded by Satara, their functions will helps to utilize irrigated water at its optimum level.

There are 284 villeges in the district comes under the drought prone condition and its area is 444916 hector and its percentage to the total area of district is 51.90 %. The total number of all type of one properties of the total number of all types of one properties of the total number of all types of one properties of the total number of all types of one properties of the total number of all types of the total number of the total numbe and it covers 128238 hector land under cultivation. Arphal Storage, Bassappawadi, Dodnala, type of operational irrigation projects are 1052 (67 by irrigation department + 985 local level)

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शिवाकी वार्षिक २०१९/९७

Notes * Figures in the bracket indicates area under cultivation in hector * Figures in the bracket indicate some * Figures in the bracket indicate some * Figures in the bracket indicate (Source: * Figures in the bracket indicate June 2018, Irrigation Department, Government of Maharashtra.)

Conclusion :

tusion:
The imbalance between the demand and supply of water resource is occurs year by year b The imbalance between the due to socio-economic issues and natural environment. Agriculture sector is backbone of the nural economy. Strategie plans of the water management will make the positive change in number of the strategie plans of the water management will make the positive change in number of the strategie plans of the water management will make the positive change in number of the strategie plans of the water management will make the positive change in number of the strategie plans of the water management will make the positive change in number of the strategie plans of the water management will make the positive change in number of the water management will make the positive change in number of the water management will make the positive change in number of the water management will make the positive change in number of the water management will make the positive change in number of the water management will make the positive change in number of the water management will make the positive change in number of the water management will be successful to the water m thrat economy, offstegre production and ultimately status of development. Irrigation department is successfully trying to cover land under cultivation through different types of irrigation project. WUA is a good way through with it is possible to use water resource for irrigation at its best level. In Sangli district there is need to promote farmers for WUA and through which it is possible to increase production and productivity of agriculture sector. It will also helps to increase cooperative behaviour among the farmers.

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