

**A PROJECT REPORT ON PROBLEM FACED BY FISHERMAN
DURING RAINY SEASON**

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In Partial fulfilment of the requirements for the degree of
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Under the guidance of
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CERTIFICATE

This is to certify that Shreyas H Devadiga bearing USN 4AL22BA100 is a bonafide student of Master of Business Administration course of the Institute, affiliated to Visvesvaraya Technological University, Belgaum. Project report on “A Project Report on Problem faced by fisherman during rainy season in Udupi district “is prepared by her under the guidance of Dr Vishnu Prasanna K N in partial fulfillment of the requirements for the award of the degree of Master of Business Administration of Visvesvaraya Technological University, Belagavi Karnataka

Signature of the Guide

Signature of HOD

DECLARATION

I Shreyas H Devadiga, hereby declare that the project report entitled “A Project Report on Problem faced by fisherman during rainy season in Udupi district” prepared by me under the guidance Dr Vishnu Prasanna K N, Professor, PG Department of Business Studies, Alva’s Institute of Engineering & Technology.

I also declare that this Project work is towards the partial fulfillment of the university Regulations for the award of degree of Master of Business Administration by Visvesvaraya Technological University, Belgaum. I have undergone this societal project for a period of two weeks. I further declare that this Project is based on the original study undertaken by me and has not been submitted for the award of any degree/diploma from any other University / Institution.

Place:

Signature of the Student

Date:

ACKNOWLEDGEMENT

I would like to express my special thanks to Dr. Vishnu Prasanna K N, Professor of PG Department of Business Administration, AIET for his guidance, support, and encouragement throughout the process of completing this Societal Project on problem Faced by fisherman in Udupi, who gave me the golden opportunity to do this Societal Project on problem faced by fisherman during rainy season which also helped me in doing a lot of Research and I came to know about so many new things.

I am really thankful to them. Secondly, I would also like to thank my friends who helped me a lot in finishing this project within the limited time. I am making this project not only for marks but to also increase my knowledge.

Place:

Signature of the Student

Date:

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1.Introduction

During the rainy season, fishermen face several challenges that can significantly impact their livelihoods and overall fishing activities. One of the main problems faced by fishermen during the rainy season is adverse weather conditions. Heavy rainfall and storms can make it unsafe for fishermen to venture out to sea. Strong winds and rough waves pose a significant risk to their safety, making it difficult to navigate and operate their boats effectively. Due to changes in water temperature and increased freshwater runoff from rivers, fish tend to migrate or move to deeper waters, making it harder for fishermen to locate and catch them.

Overall, the combination of adverse weather conditions, changes in fish behavior, reduced visibility, scarcity of bait, and increased post-harvest losses make the rainy season a challenging period for fishermen, particularly those engaged in small-scale fishing operations. Adapting to these challenges often requires resilience, experience, and the ability to employ alternative fishing strategies or seek alternative livelihood options during this period.

Due to adverse weather conditions, fishermen may have to postpone or halt their fishing activities altogether. This interruption can have significant financial implications, as their income is dependent on a successful catch. It also affects the supply of fish to local markets, potentially leading to price fluctuations and reduced availability for consumers.

Rainy weather often leads to rough sea conditions with high waves, strong currents, and reduced visibility. These hazardous conditions increase the risk of accidents and capsizing of fishing vessels. Fishermen must exercise caution and make informed decisions about when it is safe to go out to sea.

Overall, the rainy season poses several obstacles for fishermen, impacting their safety, catch, equipment, and overall livelihoods. Overcoming these challenges requires careful planning, adaptation to changing conditions, and adherence to safety guidelines to ensure the well-being of fishermen and the sustainability of their fishing practices.

Continuous exposure to rainwater can deteriorate fishing equipment, such as nets, lines, and traps. The excess moisture can weaken the materials, leading to reduced efficiency and potential damage. Repairing or replacing these gears can be costly and time-consuming for fishermen. The rainy season is characterized by unpredictable weather patterns, including sudden storms, strong winds, and heavy rainfall. These conditions can make it dangerous for

fishermen to venture out to sea, as they risk being caught in rough waters or severe weather events

Problems faced by fisherman during rainy season

As I conducted survey in my hometown Udupi. As I conducted survey in my hometown on cattle farming in Udupi, with an estimated 79% of the population engaged in this occupation. It is important to note that the survey covered a limited sample size, and there are more households in Udupi that were not included in the study. However, the survey results indicate that cattle farming is a prominent livelihood in the area, contributing to the local economy and social dynamics. The project highlights the need to address the specific challenges faced by cattle farmers in Udupi to enhance the sustainability and productivity of their farming practices. Further research and engagement with a larger number of households would provide a more comprehensive understanding of the cattle farming community in Udupi and facilitate the development of targeted interventions and support systems.

SCOPE

Weather-related challenges Fishermen encounter unpredictable weather conditions characterized by heavy rainfall, storms, and strong winds. These weather events can disrupt fishing activities, jeopardize the safety of fishermen, and lead to accidents or vessel damage.

Changes in fish availability the rainy season often brings about changes in water temperature, turbidity, and salinity, leading to alterations in fish habitats. Fish tend to disperse or move to deeper waters, making it difficult for fishermen to locate and catch them. This decrease in fish availability can have significant economic implications for fishermen.

Continuous exposure to rainwater can degrade fishing equipment, such as Damage to fishing equipment nets, lines, and traps. Moisture weakens the materials, reducing their efficiency and lifespan. Repairing or replacing damaged gear becomes necessary, adding to the financial burden of fishermen.

Navigation difficulties rainy weather affects navigation, making it challenging for fishermen to navigate their boats or vessels accurately. Reduced visibility, lack of landmarks, and

distorted depth perception can result in navigational errors and increase the chances of getting lost at sea.

Disrupted fishing operations adverse weather conditions often force fishermen to postpone or halt their fishing activities. This interruption affects their income and livelihoods, as they heavily rely on successful catches for financial sustenance. It can also impact the supply of fish to local markets, leading to market fluctuations and reduced availability for consumers.

Safety hazards at sea the arrival of heavy rains leads to rough sea conditions, including high waves, strong currents, and reduced visibility. These hazardous circumstances increase the risk of accidents, capsizing of fishing vessels, and loss of lives. Safety precautions and careful decision-making become crucial for fishermen.

Keeping the above issues in view, an exploratory study on “Problem of cattle farming in Udupi “was conducted in Udupi area with an objective of understanding the societal perceptions on the above problem.

2.Research methodology

The current study is descriptive analytical study conducted from 26 June, 2023. The primary data was collected through a questionnaire. The data of questionnaire is collected from 30 respondents by using personal interview method. In addition, this collected data lead this research study to the problems faced by fisher man during rainy season

3.Analysis and interpretation

The study on “Problem faced by fisher man during rainy season in Udupi “was conducted in the Udupi area is analysed and interpreted in this chapter

1.Engagement of respondent in fisherman

The study reveals that the majority of respondents have been engaged in fishing activities for 10-20 years, indicating a significant presence of experienced individuals in the industry. Additionally, there are respondents representing both newer entrants and more seasoned fisherman (20-30 and 30-40 years), suggesting a diverse range of experience levels within the fishing community.

In my opinion the challenges faced by fishermen during the rainy season, the diverse range of experience levels within the fishing community highlights the need for a multifaceted approach to address their concerns. While experienced individuals bring valuable knowledge, newer entrants may have fresh perspectives and ideas. To improve their livelihoods during the rainy season, interventions should focus on combining traditional wisdom with modern techniques, offering skill development programs, and establishing support networks that foster knowledge-sharing among fishermen. Empowering this diverse community will create a resilient fishing industry capable of navigating the seasonal fluctuations and enhancing their overall well-being.

2. Challenges faced during fishing activities during rainy season.

During fishing activities in the rainy season, fishermen face challenges such as unpredictable weather conditions, reduced fish availability, safety hazards, equipment damage, navigation difficulties, postponed or disrupted fishing operations, income instability, market fluctuations, and limited fishing opportunities. These challenges can affect their safety, catchability, equipment, income, and overall productivity. Fishermen need to plan carefully, adapt to changing conditions, and prioritize safety measures to overcome these challenges during the rainy season

In my opinion the challenges faced by fishermen during the rainy season, it is crucial to recognize the vulnerability of these fishing communities and the need for targeted support. Policymakers and stakeholders should collaborate to implement measures that mitigate the impact of adverse weather conditions, such as providing weather forecasts and early warning systems. Investment in improved infrastructure and safety equipment can enhance fishermen's resilience and reduce accidents at sea. Moreover, creating financial safety nets, training programs on sustainable fishing practices, and facilitating access to alternative income sources can empower fishermen to navigate the uncertainties of the rainy season and secure their livelihoods in the long term.

3. Diseases or health issues of fisherman.

Fishermen face a range of health issues and diseases including musculoskeletal injuries, drowning and water-related accidents, hypothermia and heat-related illnesses, skin conditions, respiratory problems, infections and wounds, noise-induced hearing loss, mental

health issues, waterborne diseases, and food poisoning. These health issues arise due to the physical nature of their work, exposure to harsh environments, and contact with fish and seafood. It is crucial for fishermen to prioritize safety measures, practice good hygiene, and seek medical attention when necessary to protect their health and well-being.

In my opinion this project addressing the challenges faced by fishermen during the rainy season, it is essential to emphasize the critical role of health and well-being within the fishing community. Policymakers should allocate resources to provide access to healthcare facilities, regular health check-ups, and health education programs specifically tailored to fishermen's needs. Training on safety protocols, the use of personal protective equipment, and water hygiene can significantly reduce health risks. Collaborative efforts between government agencies, NGOs, and fishing communities can raise awareness about mental health issues and provide necessary support. Prioritizing the health of fishermen is not only a moral imperative but also a prerequisite for sustaining the fishing industry and ensuring the overall welfare of these hardworking individuals.

4. Overfishing

Overfishing occurs when fish are harvested at a rate that exceeds their reproductive capacity, leading to a decline in fish populations. This can result in reduced catches, financial losses, and disruption of marine ecosystems.

In my opinion fishermen during the rainy season, it is crucial to address the issue of overfishing as a significant threat to their livelihoods and the marine environment. Overfishing not only depletes fish populations but also hinders their ability to recover, negatively impacting fishermen's catches and income. Sustainable fishing practices, such as implementing fishing quotas, promoting responsible fishing techniques, and establishing marine protected areas, are essential to safeguard fish stocks and ensure the long-term viability of the fishing industry. By prioritizing sustainable practices and conservation efforts, fishermen can secure their livelihoods and contribute to the preservation of marine ecosystems for future generations.

5. Climate Change

Climate change affects the marine environment, leading to shifts in ocean temperatures, altered currents, and changing weather patterns. These changes can impact fish migration patterns, reproductive cycles, and overall fish populations, making it harder for fishermen to find and catch fish.

In my opinion the challenges faced by fishermen during the rainy season, addressing the effects of climate change is crucial for sustainable fishing practices. Policymakers, scientists, and fishing communities must collaborate to adapt to these changing conditions.

Implementing climate-resilient strategies, such as diversifying fishing practices, using more efficient gear, and embracing sustainable aquaculture, can help mitigate the impact of climate change on fish populations.

6. Pollution and Habitat Destruction

Pollution from industrial and agricultural activities, as well as marine debris, can contaminate fishing grounds and destroy marine habitats. This pollution can harm fish populations, reduce catch quality, and damage fishing equipment.

In my opinion Policymakers and industries should prioritize environmental protection measures, implement strict waste management protocols, and promote sustainable practices to reduce pollution. Safeguarding fishing grounds and marine habitats is essential for preserving fish populations, ensuring catch quality, and protecting fishing equipment.

7. Illegal, Unreported, and Unregulated (IUU) Fishing

IUU fishing refers to fishing activities that are conducted in violation of national or international laws. It undermines efforts to manage fish stocks sustainably and creates unfair competition for legitimate fishermen. IUU fishing can deplete fish populations, destabilize local economies, and threaten the livelihoods of legal fishermen.

In my opinion Collaborative efforts among nations and regional organizations are vital to combatting this issue effectively. Supporting the implementation of traceability systems and promoting sustainable fishing practices can also deter illegal fishing and ensure the long-term health of fish stocks. By combating IUU fishing, we protect the livelihoods of legitimate

fishermen, preserve marine ecosystems, and foster a fair and sustainable fishing industry that benefits both present and future generations.

8. Lack of Access to Capital and Technology

Many small-scale fishermen struggle to access the financial resources and advanced technology needed to improve their fishing practices. Limited access to capital for boat maintenance, equipment upgrades, and modern fishing methods can hinder their ability to compete in the market and increase efficiency.

In my opinion focusing on the challenges faced by fishermen during the rainy season, it is evident that addressing the issue of limited financial resources and technology access is crucial for the sustainable development of small-scale fishing communities. Policymakers, NGOs, and financial institutions should collaborate to provide accessible and affordable credit facilities, grants, or microfinance options to empower fishermen to invest in boat upgrades, equipment modernization, and training on efficient and sustainable fishing practices. Additionally, promoting technology transfer and knowledge-sharing initiatives can bridge the gap between traditional fishing methods and modern advancements, enhancing fishermen's productivity, market competitiveness, and overall well-being during the rainy season and beyond.

9. Conflicts with other Stakeholders

Fishermen often face conflicts with other stakeholders, such as coastal developers, tourism operators, and conservationists, over the use of marine resources. These conflicts can lead to reduced access to fishing grounds, restrictions on fishing activities, and disputes over resource management.

In my opinion this project on the challenges faced by fishermen during the rainy season, it is evident that addressing market-related issues is vital. Policymakers and relevant stakeholders should work towards improving market access, providing training in marketing skills, and facilitating collective bargaining power for fishermen. Supporting local fish markets and promoting sustainable seafood consumption can enhance fishermen's income stability and

ensure a fair and thriving fishing industry despite fluctuations in market demand and price volatility.

10. Market Challenges

Fluctuations in market demand, price volatility, and competition from imported seafood can pose significant challenges for fishermen. Poor market access, limited bargaining power, and lack of marketing skills can further exacerbate these issues, making it difficult for fishermen to earn a fair income from their catches.

In my opinion that addressing market-related issues is crucial. Policymakers should prioritize initiatives that enhance market access, provide training in marketing skills, and empower fishermen with better bargaining power. Encouraging local consumption of seafood and supporting sustainable fishing practices can help alleviate the impact of market fluctuations, price volatility, and competition, ensuring a more equitable income for fishermen.

11. Occupational Hazards and Safety Concerns

Fishing is a dangerous occupation, and fishermen are exposed to various occupational hazards, including adverse weather conditions, vessel accidents, and physical strain. Lack of proper safety measures, inadequate training, and limited access to healthcare can further endanger the lives and well-being of fishermen.

In my opinion addressing market-related issues is essential for the sustainable development of fishing communities. Policymakers should take proactive measures to enhance market access for fishermen, facilitating direct links with local consumers, restaurants, and seafood distributors. Providing training in marketing skills and business management can empower fishermen to effectively promote their catches and negotiate fair prices. Moreover, supporting sustainable fishing practices through regulations and incentives can ensure long-term fish stock viability, reducing the impact of market fluctuations and competition from imported seafood. Encouraging local consumption of seafood fosters community resilience, while a fair income enhances the well-being of fishermen and sustains their livelihoods during the rainy season and beyond.

Addressing these challenges requires a combination of sustainable fisheries management, conservation efforts, improved access to resources and technology, stronger regulations, and support for the socio-economic well-being of fishermen and their communities.

Overall observation

The study reveals that the majority of respondents have been engaged in fisherman for 10-20 years, indicating a significant presence of experienced individuals in the industry fishing in the rainy season, fishermen experience changes in weather conditions and fish behaviour. The heavy rainfall leads to rough seas and challenging weather, prompting fishermen to adjust their fishing schedules for safety. The runoff from land carries nutrients into the water, stimulating the growth of algae and plankton, which attracts fish to specific areas. However, adverse weather conditions and increased competition may decrease fishing activities. Fishermen may need to adapt their gear and techniques to target fish that are more active or concentrated in certain locations. The rainy season also provides a period for maintenance and repairs of fishing equipment. Overall, fishermen closely observe these changes and make necessary adjustments to optimize their fishing efforts and ensure their safety during this period.

During the rainy season, fishermen face various challenges and make observations to adapt their fishing activities. The heavy rainfall brings rough seas, strong winds, and difficult weather conditions, which necessitate caution and adjustments to fishing schedules to ensure safety. Additionally, the runoff from the land carries sediments, nutrients, and organic matter into the water, altering its temperature, salinity, and clarity. This can lead to changes in fish behaviour and distribution. Some fish species may migrate to different areas or depths in response to the altered conditions, prompting fishermen to modify their fishing techniques and seek out new locations. They may also notice increased competition from other fishermen targeting the same fish populations attracted by the nutrient influx. As a result, fishermen may reduce their fishing efforts during intense rainfall or adapt their gear to optimize catches. Furthermore, the rainy season provides an opportunity for maintenance and repairs of fishing equipment, ensuring that everything is in working order for the upcoming fishing season when weather conditions improve. Overall, fishermen closely observe these

changes and make necessary adjustments to maximize their catch potential, maintain their safety, and sustain their livelihoods during the rainy season.

Findings

This survey project on the problems of fisherman in rainy season in Udupi has yielded several important findings. These findings provide insights into the specific challenges faced by fisherman in the research area and contribute to the understanding of the overall situation. The key findings include:

1.Nutrient-rich Areas: The runoff from the land during rainy periods carries nutrients into the water, creating favourable conditions for the growth of algae and plankton. These areas of increased productivity can attract smaller fish, which in turn can attract larger predatory fish. Fishermen can search for signs of increased baitfish activity, such as feeding birds or jumping fish, to locate potential fishing spots.

2.Nearshore and Estuarine Areas: Rainwater runoff often accumulates near the coast and in estuaries, creating a mix of fresh and saltwater. These transitional zones can become prime fishing grounds during the rainy season, as fish seek refuge, feed, or spawn in these nutrient-rich and sheltered areas. Fishermen can focus their efforts near river mouths, mangrove forests, or areas where freshwater and saltwater mix to increase their chances of finding fish.

3.Structure and Cover: Fish tend to seek shelter during inclement weather, including rainy conditions. Structures such as rocky outcrops, reefs, submerged vegetation, and underwater formations provide hiding places for fish. Fishermen can target these areas as fish may seek refuge or gather to feed on smaller organisms seeking shelter.

These findings shed light on the specific challenges and practices in fishing in Udupi enabling a deeper understanding of the issues faced by fisherman in the area. They provide a foundation for developing targeted interventions, strategies, and support systems to address these challenges and improve the overall sustainability and productivity of fishing activities operations.

4.Summary and Conclusions

This research project on the problems of fishing in rainy season Udupi sheds light on various challenges faced by fisherman in the research area. fishermen face several challenges during the rainy season that can impact their fishing activities and livelihoods. Adverse weather conditions, including rough seas, strong winds, and poor visibility, pose risks to their safety and limit their ability to venture out to sea. Changes in fish behaviour and distribution due to altered water conditions require fishermen to adapt their techniques and search for fish in different locations. Increased competition from other fishermen targeting the same fish populations attracted by nutrient-rich runoff can further complicate matters. However, there are also opportunities during the rainy season, such as targeting nutrient-rich areas, nearshore and estuarine zones, and utilizing structures and cover where fish seek shelter. By leveraging local knowledge, adapting fishing strategies, and carefully observing the changing conditions, fishermen can navigate these challenges and maximize their chances of success during the rainy season. Additionally, addressing broader issues such as proper safety measures, access to capital and technology, and sustainable fisheries management can help alleviate the overall problems faced by fishermen throughout the year, including during the rainy season.

In conclusion, the rainy season presents a unique set of challenges for fishermen, but with careful navigation and adaptation, they can overcome these obstacles. The unpredictable weather, rough seas, and reduced visibility demand caution and adjustments to fishing schedules to ensure the safety of fishermen. Changes in fish behaviour and distribution require flexibility in fishing techniques and exploration of new locations. Although increased competition may pose a challenge, fishermen can leverage the nutrient-rich runoff to their advantage by targeting areas with higher productivity and fish activity. Seeking out nearshore and estuarine zones, as well as utilizing structures and cover, can increase the likelihood of finding fish seeking shelter or foraging opportunities. By tapping into local knowledge, continuously adapting strategies, and maintaining a keen observation of changing conditions, fishermen can optimize their fishing efforts during the rainy season.

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6.QUESTIONNAIRE

- 1.**Are you a Fisherman or someone closely associated with fishing activities?
- 2.** In your experience, what are the major challenges that fishermen face during the rainy season?
- 3.**How does heavy rainfall affect fishing operations and the overall catch during this season?
- 4.** Are there specific safety concerns for fishermen, such as rough sea conditions or increased risk of accidents, during the rainy season?
- 5.** Have you observed any changes in the rainy season patterns or weather conditions over the years that have affected fishing activities?
- 6.** How does the rainy season impact the livelihoods of fishermen and their families?
- 7.** Are there any challenges in obtaining financial support or insurance coverage for fishermen and their equipment during the rainy season?
- 8.** Do fishermen face any health risks or concerns related to exposure to rain, humidity, or waterborne diseases during the rainy season?
- 9.** Are there any specific challenges related to maintaining or repairing equipment during rainy weather?
- 10.** processing or storage of the catch, during the rainy season?
- 11.** Are there any support systems or government initiatives in place to assist fishermen during the rainy season?
- 12.** How many years of experience do you have as a fisherman?

