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ANALYZING THE CAUSES AND IMPLICATIONS OF HOT WATER UNAVAILABILITY: A TECHNICAL REPORT

SUMMARY:

This technical report explores the issues arising from the absence of hot water availability in the Ramappa hostel (1.8k) at NIT Warangal. It presents findings from a survey conducted among 21 students, focusing on the importance of hot water for both drinking and bathing purposes within hostel facilities. It includes data obtained through discussions

with the warden and a survey conducted among students as a part of this study

This survey summarizes the timings required by the students for hot water for bathing and also drinking. Our findings reveal that the root causes for the absence of heaters in hostels primarily include: 1) inadequate high-power supply required for operating multiple geysers, 2) maintenance challenges associated with managing numerous geysers/water heaters, and 3) budgetary constraints faced by the management." Also this report suggests potential solution to resolve the issue.

INTRODUCTION:

During winters especially in between the months of October to January due to cold weather students hesitate to take a cold shower which leads to health and hygiene issues which causes infections and spreading of allergies causing sickness which ends up in disturbing academic routine. Not only hot water used for bathing but also hot water for drinking benefits in improving metabolism and digestion.

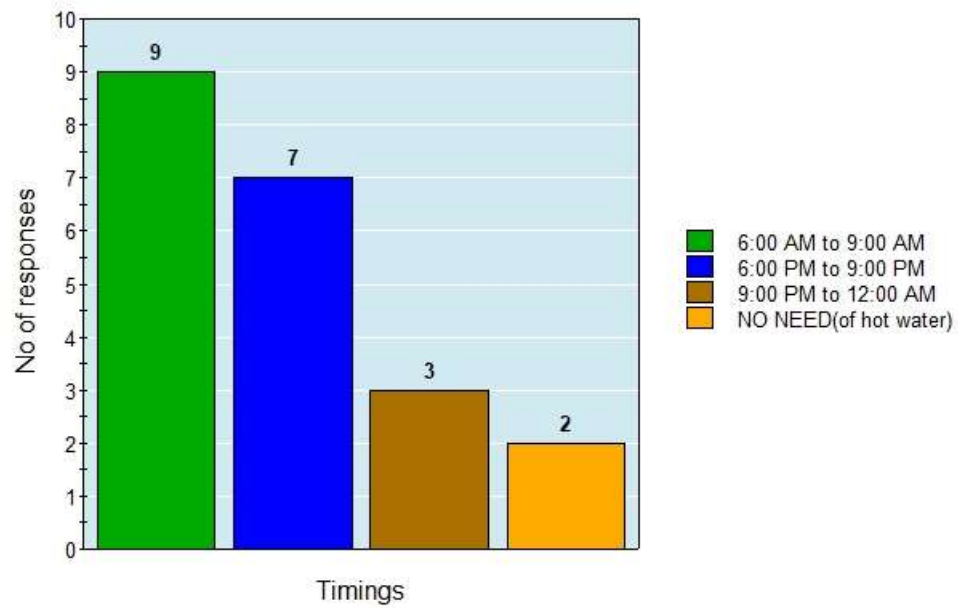
METHODOLOGY:

- Gathered information from chief warden and 21 students.
- Identified the necessity and timings of requirement of hot water.

ANALYSIS:

- **Reasons for Hot Water Unavailability:** The survey indicates that the primary reasons for the lack of hot water availability in the hostel are insufficient power supply, budget constraints, and maintenance issues. This suggests that addressing these factors could potentially improve the situation.
- **Hot Water Usage Habits:** The majority of respondents (14 out of 21) reported taking hot water showers daily at home, indicating a high level of reliance on hot water for personal hygiene. This underscores the importance of hot water availability in hostel facilities.
- **Perceived Necessity of Hot Water in Hostel:** The survey results reveal that the vast majority of respondents (12 out of 21) rated the necessity of hot water availability in hostels as extremely high (rated 5 on a scale of 1-5). This underscores the significant demand for hot water among students living in hostel accommodations.
- **Preferred Timings for Hot Water:** The survey findings show that the highest demand for hot water for bathing occurs in the morning, with 17 out of 21 respondents indicating this time frame(6AM-9AM). This highlights the importance of ensuring hot water availability during peak usage hours to meet the needs of the majority of students.

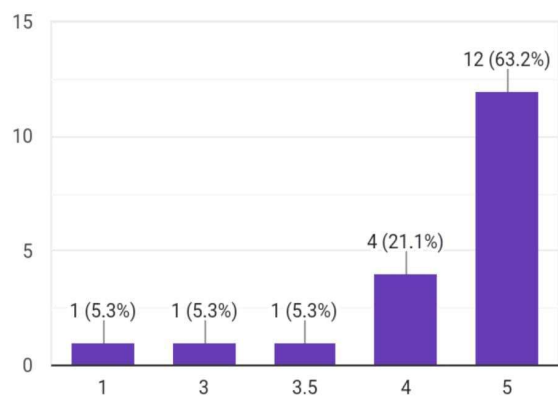
Between what timings do students require hot water



Necessity of availability of hot water in hostel.
Rate in 1-5 scale

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19 responses



RECOMMENDATIONS:

- Installing limited number of geysers per floor for bathing purpose.
- Providing water heaters for hot water drinking purpose.
- Arranging a student as a representative for maintenance of geysers and heaters.



CONCLUSION:

In conclusion, we've found that hot water availability is a significant concern at the Ramappa hostel (1.8k) in NIT Warangal. Issues like power shortages, budget limits, and maintenance problems are causing this.

To fix these issues, we suggest improving infrastructure, allocating more funds, and implementing better maintenance procedures. We also recommend

managing peak usage times, involving students, and regularly monitoring the situation.

Implementing these recommendations is crucial to ensure students have consistent access to hot water, improving their overall living conditions. It's essential for the management to prioritize these actions to support student well-being and satisfaction effectively.