



جامعة الجميع الذكية
EVERYONE'S SMART UNIVERSITY

Everyone's Smart University

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1. Introduction:-

The Risk Management in the Saline Water Conversion Corporation adopts the highest standards and best practices in the field of risk management according to a structured and proactive approach that identifies risks, assesses the degree of risks related to them, and then applies the appropriate response, which supports the corporation's achievement of its strategic objectives.

I present here a simple part of risk management for my own project in the company, and given my responsibility as a project manager and occupational safety officer, I present some of the risks that I encountered in the project, which we will face in the future due to the different weather conditions from winter to summer and the intensity of visitors (Tourists) to the ABHA region, and I reduce Administrative risks in the area, development of methodologies, tools and methods, and risk assessment in terms of severity of impact and likelihood of its occurrence.

On a scale of one to five degrees, hence the ranking. I prioritize dealing with the risks of higher values.

The scope of risk management includes all activities in the organization, for example analysis and evaluation of strategic, financial and operational risks, compliance, governance, and working with business units and country sectors to coordinate and prepare an action plan. And plans to respond to these risks, follow up on their implementation, and submit periodic reports on them to decision-makers.

There is currently an Industrial Regulatory Risk Register (for piping and flow meters) and a Manufacturing Risk Register (Manufacturing and Supply) that is updated and monitored for compliance with their treatment plans on a regular and scheduled basis. Owner Risk Management (Saline Water Conversion Corporation) carries out continuous awareness campaigns for employees and all business partners from government departments and private companies, and to promote a culture of risk management and demonstrate the benefits to the organization and individuals. both of them.

The risk management standard is very high for fifty-four sites in the project as time is not enough for most of the sites, we need to isolate water from the areas on a daily basis at work time and be other than summer days, so that there is a high density of tourists to the area from South TAIF to ABHA, and this It is the range of sites on which the project will be installed to install flow meters between the National Water Company and the Desalination Public Corporation for the governmental allocation.

Risk management is reduced by awareness of employment, manufacturing management, contractor and consultant management, owner and competent authorities, and workshops for high risks, and an accurate and intensive work plan linked to a specific time and on a specific day. The desire to operate to isolate the valves is a high risk in shutting down the supply of water to government facilities, hospitals, private companies, citizens, individuals, notables, and farms in the event of a breakage or wrong implementation by the contractor, delaying the necessary permits, or delaying the supplier in supplying pipes or devices of a specified size, which is a lot at the regional level. (1) , (2)

2. Methodology:-

A brainstorming method was used to identify risks, and from previous experiences in other projects we knew what the risks are and solutions to these risks were formed.

3. Results and Discussion

3.1 Table.1

No	Risk List Number
1.	Choose the right time to act. (Winter in a cool place).
2.	Select factories. (It does not have a customs entry date).
3.	Increase the quality of work. (It costs a lot five times the initial cost).
4.	Developing countries for devices. (Affected by Corona 19).
5.	Select the continent of Europe not detailed. (Unaccredited factory)
6.	Not qualified with the COVID-19 Authority. (Not applicable to work).
7.	ad factories. (Change cost - increase in time - project failure).
8.	Corona crisis, wars, aircraft accidents. (the death).
9.	security operations due to a new type of virus. (Cost +).
10.	barriers to language and culture. (No contact with others).
11.	you get bored, don't have fun enough. (Cost +).

Now that we have the list of hazards, we will create a risk matrix (define likelihood and The effect of each risk), which will then go to score the risk.

(Low = 0 to 2, medium =2.1 to 4, high = 4.1 to 5).

3.2 Table.2

No.	List of Risks	Probability	impact
1.	Choose the right time to act. (Winter in a cool place).	5	5
2.	Select factories. (It does not have a customs entry date).	5	5
3.	Increase the quality of work. (It costs a lot five times the initial cost).	5	5
4.	Developing countries for devices. (Affected by Corona 19).	5	3
5.	Select the continent of Europe not detailed. (Unaccredited factory)	0	0
6.	Not qualified with the COVID-19 Authority. (Not applicable to work).	0	2
7.	at factories. (Change cost - increase in time - project failure).	5	5
8.	Corona crisis, wars, aircraft accidents. (the death).	2	5
9.	security operations due to a new type of virus. (Cost +).	3	3
10.	barriers to language and culture. (No contact with others).	1	2
11.	you get bored, don't have fun enough. (Cost +).	3	5

After collecting and evaluating the risks, it time to evaluate the severity to start thinking about the response plans for each risk and try to mitigate the impact. For calculating the severity, we used Risks Matrix and Bow-Tie to find the response plan.(2)

3.2.1 Figure.1

Probability	4.1- 5	high	high	medium
	2.1- 4	high	medium	low
	0-2	medium	low	low
		4.1- 5	2.1- 4	0-2
		Impact		

3.2.2 Figure.2

No. Risk	p	I	Severity	Response plan	Mitigate Action
1.	5	5	high	An agreement with the owner by 6 months prior to the start of the winter work	Creating an alternative plan as groups and awarding five contractors to the project as subcontractors, and dividing the principal amount among five contractors
2.	5	5	high	Searching for factories that have large and professional workforce	Putting a competition to the project and dividing it into groups of manufacturers
3.	5	5	high	Choose by the best global factories and entice them with more money to specify the work in the description	Rapid communication on the part of our translators, expressing their views and accepting all details, taking into account international law and the contract between the two companies
4.	5	3	high	Moving away from countries affected by the Corona crisis and heading to other countries that have not been affected	Ongoing negotiations with taking precautionary measures to prevent infection with the Coronavirus
5.	0	0	Low	Distribution of work to more than one factory, while taking licenses and certificates to qualify for work	The work contract with the factories of the continent of Europe, and this causes internal costs and crises
6.	0	2	Low	Find alternatives or an agreement with the owner of the project	Submit proposals for alternatives to work inside Saudi Arabia
7.	5	5	high	Searching for more than one other manufacturer with the same quality in European countries	Distribution of work to more than one factory after consideration for certificates and licenses
8.	2	5	medium	Work with more than one plan for fast completion	Live with reality

9.	3	3	medium	Continuous sterilization and examination of people for injuries with a PCR examination	Providing the necessary costs, coordination, management and linking the facility with individuals with state systems
10.	1	2	Low	Attracting people from the same country to translate and facilitate operations	Acceleration of work development to accelerate project development
11.	3	5	high	Patience is required to achieve the goal and climb to the highest peaks and the success of the project is my personal success	Increase the time for work and entertainment on the Weekend with the new entertainment organizations

3.2.3 EMV:-

NO.RISK	P	I	EMV
1.	50%	35000 SR	17500 SR
2.	30%	45000 SR	13500 SR
3.	150%	600000 SR	900000 SR
4.	15%	15000 SR	2250 SR
5.	10%	20000 SR	2000 SR
6.	5%	6000000 SR	300000 SR
7.	5%	1515200 SR	75760 SR
8.	40%	2000000 SR	800000 SR
9.	10%	500000 SR	50000 SR
10.	7%	350000 SR	24500 SR
11.	25%	800000 SR	200000 SR
TOTAL		11,880,200 SR	2,385,510 SR

TOTAL EMV= **2,385,510 SR**

4. consequences

Here we have calculated the cost of EMV due to the Corona Pandemic. All the numbers that exist according to what is in the contract with the project, so that we can see that it is an almost

accurate cost as I am the director of the project and sites, but they were evaluated on the basis of experience and the reality we have now. Total potential impact on the plan **11,880,200 SR** while the Emergency cost is **2,385,510 SR**.

4.1.1 Risk register:

The general manager, the project manager, and the project committee (stakeholders) met continuity and preparations for the event from the Corona pandemic, and an additional evaluation of the basic review and recommendation of any new possibility and the appointment of the interview via Zoom. And improve the opportunity and quality of monitoring. Time considerations are one of the main options. On time, high quality and best manufacturing. All parties involved will be informed of any event directly. (1) , (2) , (3)

4.1.2 Discussion

- 4.1.2.1 In (**Figure.2**) we can see the result of reposing plan and how to mitigate the risk. It is important to note that we should be aware of all risks but shouldn't waste the time on risks with green color, it is better to focus on orange and red risks because they have higher probability and huge impact
- 4.1.2.2 In (**3.2.3 EMV**) we can see the result of the cost of risk to the budget. The highest number was manufacturing in European countries, the crisis of subcontractors, and the small number of employees in the company, so they have the highest priority. There are some risks that we should be wary of such as choosing an unknown manufacturer, poor manufacturing standard and quality.

5. References

- (1) Saline Water Conversion Corporation
- (2) RAISSYON Trading and Contracting Company, activity of flow meters
- (3) Partners (subcontractors - European manufacturers).