

# Project management for the construction of entertainment venue

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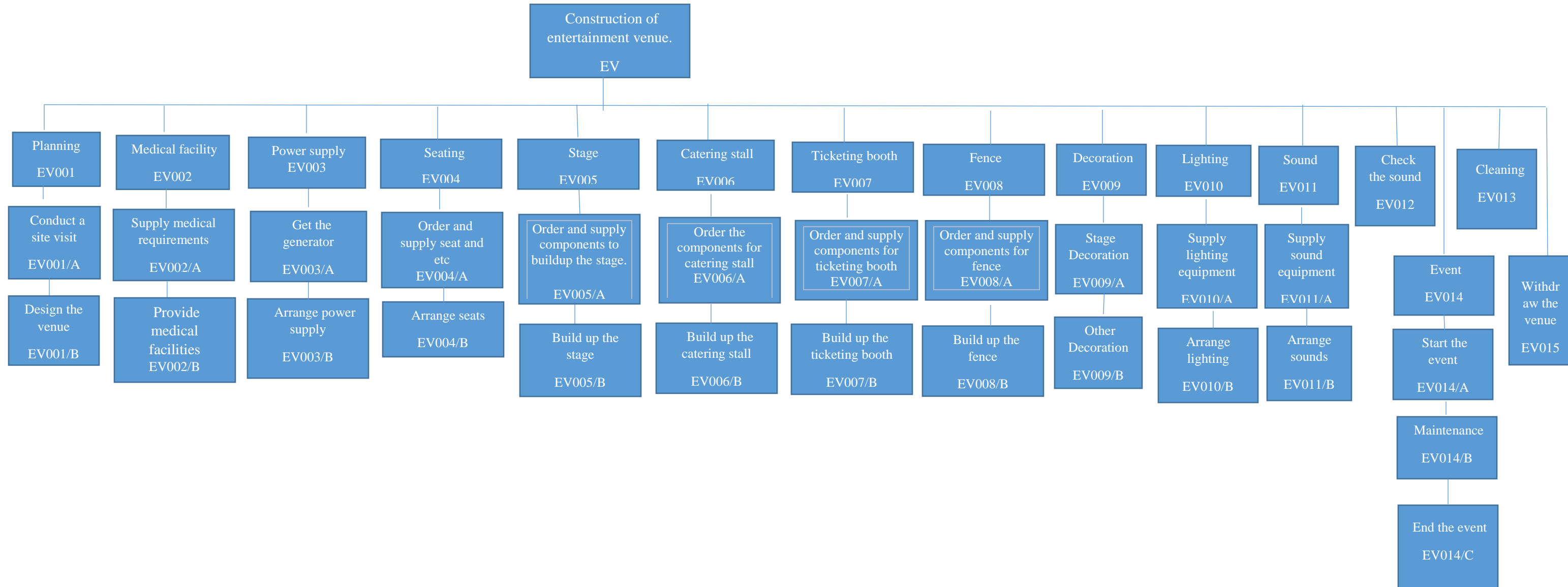
## **Introduction**

The objective of this report is to develop a project plan to construct an entertainment venue at Viharamahadevi Park. The venue will include a stage, seating for 100 people, a catering stall and a ticketing booth. The venue will be in place for 16 days from 12 – 28<sup>th</sup> July 2019. Project will start 3<sup>rd</sup> July onward. This project only consider about construction and maintenance of venue but not considering organize the event. This project plan includes Gantt chart, network diagram, cost estimate and risk analysis. Total project time of the project is 27 days and within the project period weekends are also considered as working days.

## **Work breakdown structure (WBS).**

Work Breakdown Structure (WBS) is the hierarchical decomposition of the entire project and it is used to split the overall project into different tasks. WBS help to project team to allocate resources, funds, time and responsibilities, and review the progress of each project tasks (Khohil and Chitkara, 2008). Furthermore, project team can take speed corrective actions if the WBS plan is delayed or changed.

Figure 01 – Work breakdown structure of the project.



## **Project plan**

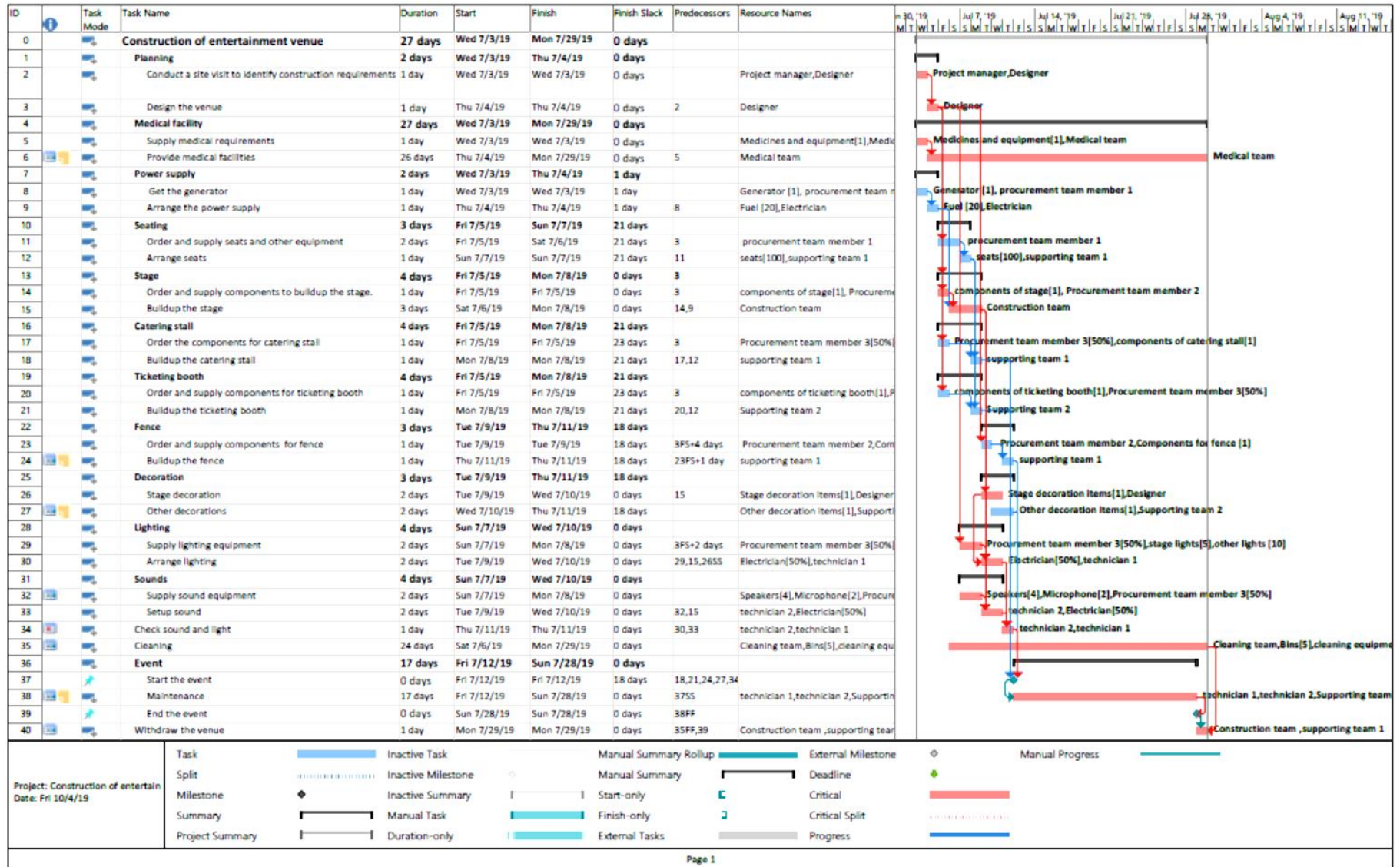
Detailed project plan has been conducted in below MS project document.



Entertainment  
venue.mpp

Gantt chart, work breakdown structure, resource usage, task usage, resource sheet any many other aspects of the project have been conducted in the project plan. Gantt chart is a type of bar chart which show the detail project schedule. Further, resources and cost can be allocated to different project tasks based on the Gantt chart via MS project. Gantt chart of the Entertainment venue project can be referred in above MS project document. Task based costs and resources are also entered in to Gantt chart.

Figure 02 – Screenshot of Gantt chart.



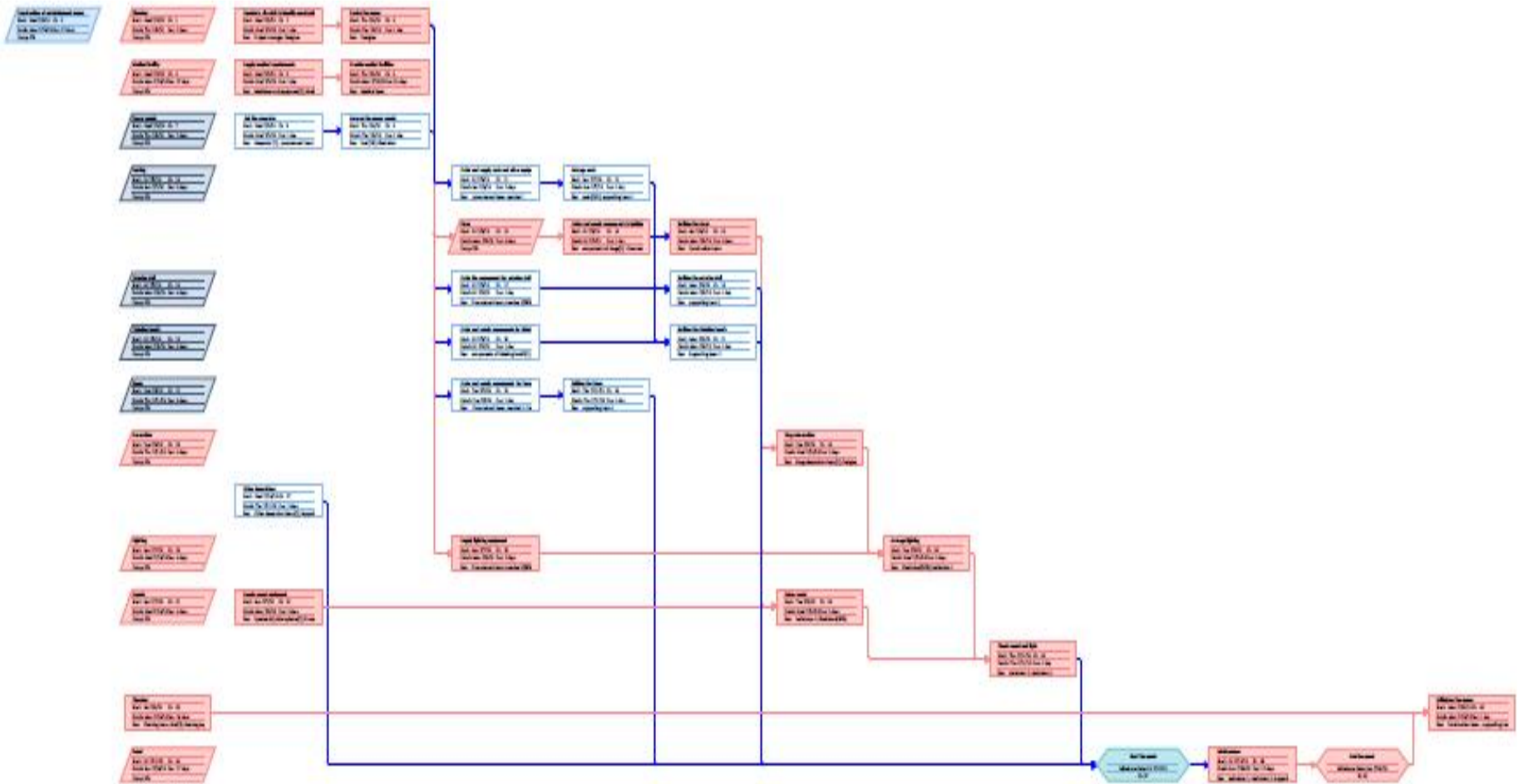
### **Network diagram.**

Network diagram is the one of commonly used project planning technique that help to complete the project within shortest possible time (Sivaganathan, 2008). Total time that need to be allocated to complete this project is 792 man hours. However, as a team, project team need to complete the project within 27 days. Therefore, Network diagram is highly important for time management. Further, it clearly illustrate the critical task that project team need to complete within the time schedule.

Screenshot of this project network diagram is attached below and clear network diagram can be referred in MS project document. Critical path of the project is shown in red in network diagram. Please refer the network diagram in below link.



Figure 02 – Screenshot of network diagram.





## Budget and cost analysis

The main objective of the cost planning process is to identify the importance cost factors and identify the potential for compromise the cost within different components of the project. For the cost analysis of this project, a bottom-up approach has been used. Bottom-up estimates of the each level in the WBS are added from each level of the project hierarchy (Maylor, 2006). Estimate cost of this project is Rs 777,650.00. Further, these calculated costs have been considered as baseline costs of the project.

Table 01 – Resource sheet

Resource Name	Type	Material Label	Initials	Group	Max. Units	Std. Rate	Ovt. Rate	Cost/Use	Accrue At	Base Calendar
Designer	Work		Designer		100%	Rs. 625.00/hr	Rs. 0.00/hr	Rs. 0.00	Start	Standard
Project manager	Work		PM		100%	Rs. 0.00/hr	Rs. 0.00/hr	Rs. 27,000.00	End	Standard
procurement team member 1	Work		Procure 1		100%	Rs. 250.00/hr	Rs. 0.00/hr	Rs. 0.00	Prorated	Standard
<b>Procurement team member 2</b>	Work		Procure 2		100%	Rs. 250.00/hr	Rs. 0.00/hr	Rs. 0.00	Prorated	Standard
Medical team	Work		Medical		100%	Rs. 250.00/hr	Rs. 0.00/hr	Rs. 0.00	Prorated	Standard
Cleaning team	Work		CT		100%	Rs. 200.00/hr	Rs. 0.00/hr	Rs. 0.00	Prorated	Standard
Medicines and equipment	Material		Medicines			Rs. 0.00		Rs. 7,000.00	Start	
Generator	Material		Generator			Rs. 50,000.00		Rs. 10,000.00	Start	
Fuel	Material	L	Fuel			Rs. 100.00		Rs. 1,000.00	Start	
Electrician	Work		Electrician		100%	Rs. 250.00/hr	Rs. 0.00/hr	Rs. 0.00	Prorated	Standard
Procurement team member 3	Work		Procure 3		100%	Rs. 250.00/hr	Rs. 0.00/hr	Rs. 0.00	Prorated	Standard
seats	Material		Seats			Rs. 300.00		Rs. 5,000.00	Start	
supporting team 1	Work		Suporting team 1		100%	Rs. 1,000.00/hr	Rs. 0.00/hr	Rs. 0.00	Prorated	Standard

components of stage	Material		Stage components			Rs. 0.00		Rs. 75,000.00	Start	
Construction team	Work		construction team		100%	Rs. 1,500.00/hr	Rs. 0.00/hr	Rs. 0.00	Prorated	Standard
components of catering stall	Material		Catering stall Components			Rs. 0.00		Rs. 25,000.00	Start	
components of ticketing booth	Material		Ticketing booth components			Rs. 0.00		Rs. 7,000.00	Start	
Supporting team 2	Work		Supporting team 2		100%	Rs. 1,000.00/hr	Rs. 0.00/hr	Rs. 0.00	Prorated	Standard
Components for fence	Material		Fence components			Rs. 0.00		Rs. 20,000.00	Start	
Stage decoration items	Material		stage deco			Rs. 0.00		Rs. 22,000.00	Start	
Other decoration items	Material		other deco			Rs. 0.00		Rs. 17,000.00	Start	
stage lights	Material		Stage lights			Rs. 7,000.00		Rs. 5,000.00	Start	
other lights	Material		other lights			Rs. 1,000.00		Rs. 0.00	Start	
technician 1	Work		tech 1		100%	Rs. 300.00/hr	Rs. 0.00/hr	Rs. 0.00	Prorated	Standard
technician 2	Work		tech 2		100%	Rs. 300.00/hr	Rs. 0.00/hr	Rs. 0.00	Prorated	Standard
Speakers	Material		speakers			Rs. 5,000.00		Rs. 0.00	Start	
Microphone	Material		Mic			Rs. 3,000.00		Rs. 0.00	Start	
Bins	Material		bins			Rs. 150.00		Rs. 0.00	Start	
cleaning equipment	Material		cleaning equipment			Rs. 100.00		Rs. 0.00	Start	

## **Cost baseline.**

Follow the below link to refer cost baseline.



cost baseline.mpp

The cost baseline refer the amount of money which is predicted to cost for the project. This is useful to identify the actual performance deviation from the expected plan.

Table 02 – cost estimate

Task Name	Total Cost
Conduct a site visit to identify construction requirements	Rs. 32,000.00
Design the venue	Rs. 5,000.00
<b>Planning</b>	<b>Rs. 37,000.00</b>
Supply medical requirements	Rs. 9,000.00
Provide medical facilities	Rs. 52,000.00
<b>Medical facility</b>	<b>Rs. 61,000.00</b>
Get the generator	Rs. 62,000.00
Arrange the power supply	Rs. 5,000.00
<b>Power supply</b>	<b>Rs. 67,000.00</b>
Order and supply seats and other equipment	Rs. 4,000.00
Arrange seats	Rs. 43,000.00
<b>Seating</b>	<b>Rs. 47,000.00</b>
Order and supply components to buildup the stage.	Rs. 77,000.00
Buildup the stage	Rs. 36,000.00
<b>Stage</b>	<b>Rs. 113,000.00</b>
Order the components for catering stall	Rs. 26,000.00
Buildup the catering stall	Rs. 8,000.00
<b>Catering stall</b>	<b>Rs. 34,000.00</b>
Order and supply components for ticketing booth	Rs. 8,000.00
Buildup the ticketing booth	Rs. 8,000.00
<b>Ticketing booth</b>	<b>Rs. 16,000.00</b>
Order and supply components for fence	Rs. 22,000.00
Buildup the fence	Rs. 8,000.00
<b>Fence</b>	<b>Rs. 30,000.00</b>
Stage decoration	Rs. 32,000.00
Other decorations	Rs. 33,000.00
<b>Decoration</b>	<b>Rs. 65,000.00</b>
Supply lighting equipment	Rs. 52,000.00
Arrange lighting	Rs. 6,800.00
<b>Lighting</b>	<b>Rs. 58,800.00</b>
Supply sound equipment	Rs. 28,000.00
Setup sound	Rs. 6,800.00
<b>Sounds</b>	<b>Rs. 34,800.00</b>
Check sound and light	Rs. 4,800.00
Cleaning	Rs. 39,650.00
Start the event	Rs. 0.00
Maintenance	Rs. 149,600.00
End the event	Rs. 0.00
<b>Event</b>	<b>Rs. 149,600.00</b>
Withdraw the venue	Rs. 20,000.00
<b>Construction of entertainment venue</b>	<b>Rs. 777,650.00</b>

## Risk analysis

Main risks of the project have been identified below and suitable risk mitigation actions are also suggested.

Table 03 – Risk assessment

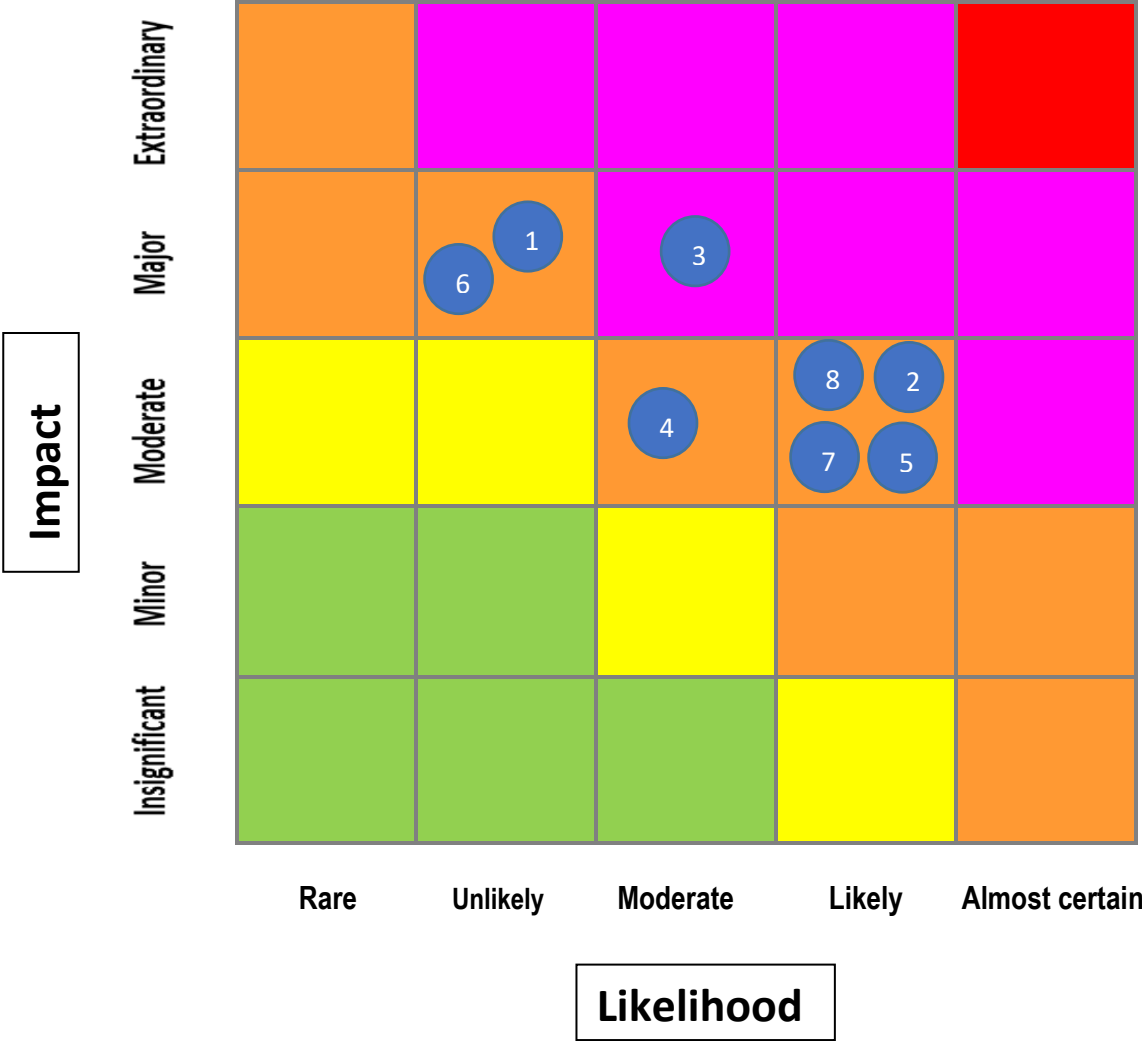
Ref. no.	Risk	Impact	Likelihood	Risk mitigating action plans
1	Security threat	Major	Unlikely	Inform the police and provide security for the event.
2	Interrupt due to bad weather	Moderate	Likely	Check the weather updates, Provide suitable covers, Clear the draining system.
3	Accidents in the work place	Major	Likely	Provide pre training for employees. Provide and use safety equipment. Ensure medical team available in all the time. Getting insurance
4	Absence of key employees	Moderate	Moderate	Hire employees from third party.
5	Delays in supply components	Moderate	Likely	Communicate with procurement team frequently. Place order on time and coordinate with suppliers.
6	Constructions is not going according to design.	Major	Unlikely	Coordinate with designer frequently.
7	Interruption due to power cut.	Moderate	Likely	Use generator.
8	Unexpected increase of equipment cost	Moderate.	Likely	Keep additional budget.

Risk register need to be updated by including all possible risks. Associated risk can be identified based on the previous experiences, different internal and external sources, key risk symptoms or performing time, cost, quality analysis (Baker and Cole, 2012). There need to be proper criteria to measure impact and likelihood. By having proper project plan, many associated risks can be mitigated.

Table 05 – risk ratings

Risk Rating	What it Means
<p style="text-align: center;"><b>E</b> Extreme</p>	<ul style="list-style-type: none"> <li>▪ Project sponsor’s attention is required.</li> <li>▪ Immediate actions need to be taken by higher management with a detailed research and management risk treatment plan.</li> </ul>
<p style="text-align: center;"><b>H</b> High</p>	<ul style="list-style-type: none"> <li>▪ Project sponsor’s attention is required.</li> <li>▪ Risk must be managed by project sponsor and project manager with a detailed risk treatment plan.</li> </ul>
<p style="text-align: center;"><b>S</b> Significant</p>	<ul style="list-style-type: none"> <li>▪ Project manager’s attention is required.</li> <li>▪ Project manager responsibility specified.</li> <li>▪ Risks should be treated using one or more of the risk treatment options</li> </ul>
<p style="text-align: center;"><b>M</b> Moderate</p>	<ul style="list-style-type: none"> <li>▪ Risks need to be treated using one or more of the risk treatment options</li> <li>▪ Risks need to be managed using specific monitoring or treatment processes.</li> </ul>
<p style="text-align: center;"><b>L</b> Low</p>	<ul style="list-style-type: none"> <li>▪ Risk is accepted with minimal treatment and can generally be managed using existing routine procedures.</li> <li>▪ Low risks need to be monitored and constantly reviewed to ensure they remain acceptable.</li> </ul>

Figure 03 – Risk matrix for the project.



## **References**

Maylor, H. (2006). *Project Management* (3<sup>rd</sup> ed.). India: Pearson Education

Sivaganathan, A. (2016). *Lecture Notes: Project Management*, Colombo: Postgraduate Institute of Management

Kohil, U., & Chitkara, K.K.(2008). *Project Management Handbook* New Delhi: Tata McGraw – Hill Publishing Company Ltd

Barker, S., & Cole, R.(2012). *Brilliant Project Management: what the best project managers know, do, and say* (3<sup>rd</sup> ed.). London: Pearson Education