



30 Cm Webbing Sling	4
36KN Carabiners	10
36KN Single Pulley	2
36KN Double Pulley	4
36KN Paw	2
10m Polyester Rope	1
15m Polyester Rope	2
23 KN Swivel	1

### **Justification**

FOL 1 switching position:

I moved FOL 1 from the left side to the right side because FP1 is closer to the right side of the truss. This change makes it easier and safer to control the aerial performer directly above because the operator can see the FP1 much clearer and can react quicker if any accidents were to happen during performance. Moving FP1 to the right can also reduce the amount of lag and friction from the rope due to the shorter distance between FP1 to the end of the truss on the right rather than the left.

Reason for picking hemp fly system:

A hemp fly system was chosen for this setup because it allows the operator to control the movement of the FP1 from a distance away, this makes it so that the audience would not be able to see both the operator and the majority of the equipment since it will be hidden out of sight, keeping the audience's attention on the performer rather than anything else. It also gives the stage a cleaner and more aesthetically pleasing look.

Reason for 8:1 in fly system:

A safety ratio of 8:1 is used to keep aerial performers as safe as possible when they are performing in the air. Due to the system being controlled by one person, it's important to take note on how much weight the operator can handle for an average person, especially when they must repeatedly work the line. Since the performer would weigh about 50kg in estimate, an 8:1 ratio makes it easier to lift and lower the performer safely and steadily than using lower ratios like 4:1 or 6:1. This keeps the performer safe and makes sure the fly operation goes smoothly during the show as well as lessening the amount of effort the operator would need to exert.

Reason for using a swivel:

A swivel is important in aerial setups because it absorbs twisting forces, especially in aerial performances. Adding it into the system can help the performer turn easily, making their movements smoother and more controlled. Most importantly, it stops the rope and riggings from getting twisted, which can lead to them getting damaged over time.