Number of vertices $n = 5$.
Adjacencies of Graph

1. vertex 1 adjacent to 3 4 5
2. vertex 2 adjacent to 3 4 5
3. vertex 3 adjacent to 1 2
4. vertex 4 adjacent to 1 2
5. vertex 5 adjacent to 1 2

Size of automorphism group of the graph=12
Full group: $|Aut(polytope)| = 4608$
Restricted group: $|Aut(G) \times switch| = 192$
Number of orbits for the full group : 1
List of orbits of facets for the full group: Total number of orbits = 1 Total number of facets = 36

1. Inequality 1 with incidence 8 and stabilizer of size 128. Orbit size is 36 nature: edge inequality e=[1, 5]

(1,3) : 0	(1,4) : 0	(1,5) : 1	(2,3) : 0	(2,4) : 0	(2,5) : 0

Number of orbits for the restricted group : 2
List of orbits of facets for the restricted group: Total number of orbits = 2 Total number of facets = 36

1. Inequality 1 with incidence 8 and stabilizer of size 16. Orbit size is 12 nature: edge inequality e=[1, 5]

(1,3) : 0	(1,4) : 0	(1,5) : 1	(2,3) : 0	(2,4) : 0	(2,5) : 0

2. Inequality 2 with incidence 8 and stabilizer of size 8. Orbit size is 24 nature: 4-cycle inequality, C=[2, 5, 1, 4] F=[2, 5]

(1,3) : 0	(1,4) : 1	(1,5) : 1	(2,3) : 0	(2,4) : 1	(2,5) : -1