Number of vertices $n = 6$.
Adjacencies of Graph

1. vertex 1 adjacent to 4 5 6
2. vertex 2 adjacent to 4 5 6
3. vertex 3 adjacent to 4 5 6
4. vertex 4 adjacent to 1 2 3
5. vertex 5 adjacent to 1 2 3
6. vertex 6 adjacent to 1 2 3

Size of automorphism group of the graph=72
Full group: $|Aut(polytope)| = 2304$
Restricted group: $|Aut(G) \times switch| = 2304$
Number of orbits for the full group : 2
List of orbits of facets for the full group: Total number of orbits = 2 Total number of facets = 90

1. Inequality 1 with incidence 16 and stabilizer of size 128. Orbit size is 18 nature: edge inequality e=[1, 6]

(1,4) : 0 (3,4) : 0	(1,5) : 0 (3,5) : 0	(1,6) : 1 (3,6) : 0	(2,4) : 0	(2,5) : 0	(2,6) : 0

2. Inequality 2 with incidence 16 and stabilizer of size 32. Orbit size is 72 nature: 4-cycle inequality, C=[1, 5, 2, 6] F=[1, 5]

(1,4) : 0 (3,4) : 0	(1,5) : -1 (3,5) : 0	(1,6) : 1 (3,6) : 0	(2,4) : 0	(2,5) : 1	(2,6) : 1