|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Distance (miles)** | **Number of Transporters** | **Narayanan et al’s System** | | **Our Proposed System Cost per Product** | | **Cost Reduction (%)** |
| **USD** | **Gas Units** | **USD** | **Gas Units** | **(2)** |
| 50-100 | 1 | 0.99 | 9100000 | 0.93 | 8500000 | 6% |
| 100-250 | 2 | 1.31 | 12000000 | 1.22 | 11170000 | 6.87% |
| 250-500 | 3 | 1.74 | 15950000 | 1.62 | 14830000 | 6.89% |
| 500-750 | 4 | 2.12 | 19400000 | 1.98 | 18100000 | 6.66% |
| 750-1000 | 5 | 2.49 | 22830000 | 2.34 | 21450000 | 6.02% |

TABLE 5

Cost analysis considering distance in miles, gas units, and cost reductions