|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Distance (miles)** | **Number of Transporters** | **Narayanan et al’s System** | | **Our Proposed System Cost per Product** | | **Cost Reduction (%)** |
| **USD** | **Gas Units** | **USD** | **Gas Units** |
| 50-100 | 1 | 0.022 | 3200000 | 0.02 | 2900000 | 9.1% |
| 100-250 | 2 | 0.029 | 4150000 | 0.026 | 3800000 | 10.35% |
| 250-500 | 3 | 0.037 | 5310000 | 0.033 | 4832000 | 10.8% |
| 500-750 | 4 | 0.045 | 6530000 | 0.041 | 5950000 | 8.8% |
| 750-1000 | 5 | 0.052 | 7600000 | 0.047 | 6790000 | 9.6% |

TABLE 5

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