现有管道生产工厂：

和管道需求地

钢厂在指定期限内能生产该钢管的最  
大数量为 个单位，钢管出厂销价 1 单位钢管为万元，如下表：

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|  | 800 | 800 | 1000 | 2000 | 2000 | 2000 | 3000 |
|  | 160 | 155 | 155 | 160 | 155 | 150 | 160 |

到所需要的每1单位钢材路费如下表：

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | A1 | A2 | A3 | A4 | A5 | A6 | A7 | A8 | A9 | A10 | A11 | A12 | A13 | A14 | A15 |
| S1 | 0 | 160 | 140 | 98.6 | 38 | 20.5 | 3.1 | 21.2 | 64.2 | 92 | 96 | 106 | 121 | 128 | 142 |
| S2 | 0 | 205 | 190 | 172 | 111 | 95.5 | 86 | 71.2 | 114 | 142 | 146 | 156 | 171 | 178 | 182 |
| S3 | 0 | 220 | 200 | 182 | 121 | 106 | 96 | 86.2 | 48.2 | 82 | 86 | 96 | 111 | 118 | 132 |
| S4 | 0 | 250 | 235 | 217 | 156 | 141 | 131 | 116 | 84.2 | 62 | 51 | 61 | 76.2 | 83 | 97 |
| S5 | 0 | 245 | 225 | 207 | 146 | 131 | 121 | 111 | 79.2 | 57 | 33 | 51 | 71.2 | 73 | 87 |
| S6 | 0 | 255 | 235 | 235 | 156 | 141 | 131 | 121 | 84.2 | 62 | 51 | 45 | 26.2 | 23 | 28 |
| S7 | 0 | 265 | 245 | 227 | 166 | 151 | 141 | 131 | 99.2 | 77 | 66 | 56 | 38.2 | 26 | 22 |

限制：

每个钢厂每次至少生产500个单位的钢材。