1. **Main parameters for levelized cost**

Currency: CNY

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No. | Item | Unit | Number | Remarks |
| ACP100 | | | | |
| 1 | Number of units | Unit | 1 |  |
| 2 | Nominal power | MW | 125 |  |
| 3 | Average annual availability hours | Hour | 8000 |  |
| 4 | Plant service power consumption rate | % | 10 |  |
| 5 | FCD | Year/Month/Date | 2019.12.30 | Tentative |
| 6 | Construction period | Month | 50 |  |
| 7 | COD | Year/Month/Date | 2024.03.01 |  |
| 8 | Operation period | Year | 60 |  |
| 9 | Discount rate | % | 7 |  |
| 10 | Capital ratio | % | 20 |  |
| 11 | Loan interest rate | % | 4.9 |  |
| 12 | Repayment period | Year | 15 |  |
| 13 | Amount of staff |  | 383 |  |
| 14 | Staff’s annual average salary | Yuan/Man·Year | 210,600 |  |
| 15 | Initial fuel cost | M.RMB | 304.25 |  |
| 16 | Annual fuel cost | M.RMB | 51.55 |  |
| 17 | Spent fuel reprocessing cost | Yuan/kWh | 0.026 |  |
| 18 | Repair and maintenance cost | % | 1.5 | Fixed assets |
| 19 | Consumable materials | Yuan/MWh | 10 |  |
| 20 | Waste management cost | Yuan/MWh | 0.5 |  |
| 21 | Decommissioning allowances | % | 10 | Fixed assets |
| 22 | Insurance premiums | % | 0.3 | Net fixed assets |
| 23 | Nuclear emergency costs | Yuan/MWh | 0.2 |  |
| 24 | Miscellaneous costs | Yuan/Man | 130,000 |  |
| Desalination water | | | | |
| 1 | Capacity | t/d | 650,000 |  |
| 2 | Average annual availability hours | Hour | 8322 |  |
| 3 | Operation period | Year | 30 |  |
| 4 | Discount rate | % | 7 |  |
| 5 | Capital cost | M.RMB | 6969 |  |
| 6 | Loan interest rate | % | 4.9 |  |
| 7 | Repayment period | Year | 15 |  |
| 8 | Chemicals cost | Yuan/t | 0.59 |  |
| 9 | Power consumption | kWh/t | 3.92 |  |
| 10 | Membrane/filter element replacement cost | Yuan/t | 0.71 |  |
| 11 | Wages & salaries | Yuan/t | 0.051 |  |
| 12 | Repair and maintenance cost | Yuan/t | 0.035 |  |

1. **Overnight costs**

If ACP100 were constructed in China in the following layouts on the same site, the estimated overnight costs of EPC contract please sees the table below:

Unit：M.RMB

|  |  |  |  |
| --- | --- | --- | --- |
| Items | One unit | Two units | Four units |
| Single-unit layout | 8064.81 | 12903.70 | 19355.55 |
| Double-units layout | — | 12097.22 | 18145.83 |

**Note:** RMB:USD=6.8:1