**INSTRUMENT APPROACH CHART-ICAO**

**AERODROME ELEV 1367**

**HEIGHTS RELATED TO THR RWY 11 - ELEV 1367**

**ULAANBAATAR/ CHINGGIS KHAAN (ZMCK)**

**VOR Z RWY 11**

**ACFT CAT A/B, C/D**

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**DIST IN KM**

- 1652
- 2155
- 1558
- 1575
- 1841
- 1755
- 1747
- 1746
- 1749
- 1653
- 1656
- 2226
- 1997
- 2103
- 2100
- 2003
- 3000
- 2400
- 2700
- 3000

**Note:**
- **DME required**
- **Missed approach speed limited to 445km/h (240kt) IAS maximum**

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**SCALE 1:530 000**

**SER** VOR/DME (NM)

- **MAPT** 4
- **5**
- **6**
- **7**
- **8**
- **FAF**

**TRANSITION LEVEL** 3600

**TRANSITION ALTITUDE**

- **3000 (QNH ≥ 1031 hPa)**

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**MISSED APPROACH:**

Climb on HDG 111° to D6 SER, turn right, HDG 231° to intercept and proceed via RDL-186 SER to CK299 and hold at ALT 2700(1333).

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**D21 SER**

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**Note:** Circling to SOUTH side of RWY only.

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**Minimum Missed Approach Gradient 2.5%**

<table>
<thead>
<tr>
<th>CAT of ACFT</th>
<th>OCA(H)</th>
<th>MDA(H)</th>
<th>VIS FULL</th>
<th>VIS ALS</th>
<th>MDA(H)</th>
<th>VIS</th>
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<tbody>
<tr>
<td>A/B</td>
<td>1580(213)</td>
<td>1600(233)</td>
<td>22000m</td>
<td>26000m</td>
<td>1600(233)</td>
<td>26000m</td>
</tr>
<tr>
<td>C</td>
<td>1600</td>
<td>1600(233)</td>
<td>28000m</td>
<td>32000m</td>
<td>1750(383)</td>
<td>50000m</td>
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<tr>
<td>D</td>
<td>30000m</td>
<td>34000m</td>
<td>1600(433)</td>
<td>50000m</td>
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**Ground Speed**

<table>
<thead>
<tr>
<th>km/h</th>
<th>185</th>
<th>205</th>
<th>225</th>
<th>240</th>
<th>260</th>
<th>280</th>
<th>300</th>
<th>315</th>
<th>330</th>
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<tbody>
<tr>
<td>kt</td>
<td>100</td>
<td>110</td>
<td>120</td>
<td>130</td>
<td>140</td>
<td>150</td>
<td>160</td>
<td>170</td>
<td>180</td>
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**Rate of Descent**

<table>
<thead>
<tr>
<th>m/s</th>
<th>2.69</th>
<th>2.98</th>
<th>3.30</th>
<th>3.49</th>
<th>3.78</th>
<th>4.08</th>
<th>4.37</th>
<th>4.59</th>
<th>4.80</th>
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</thead>
<tbody>
<tr>
<td>ft/min</td>
<td>531</td>
<td>584</td>
<td>637</td>
<td>690</td>
<td>743</td>
<td>796</td>
<td>849</td>
<td>902</td>
<td>955</td>
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</tbody>
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**CHANGE:** New chart.