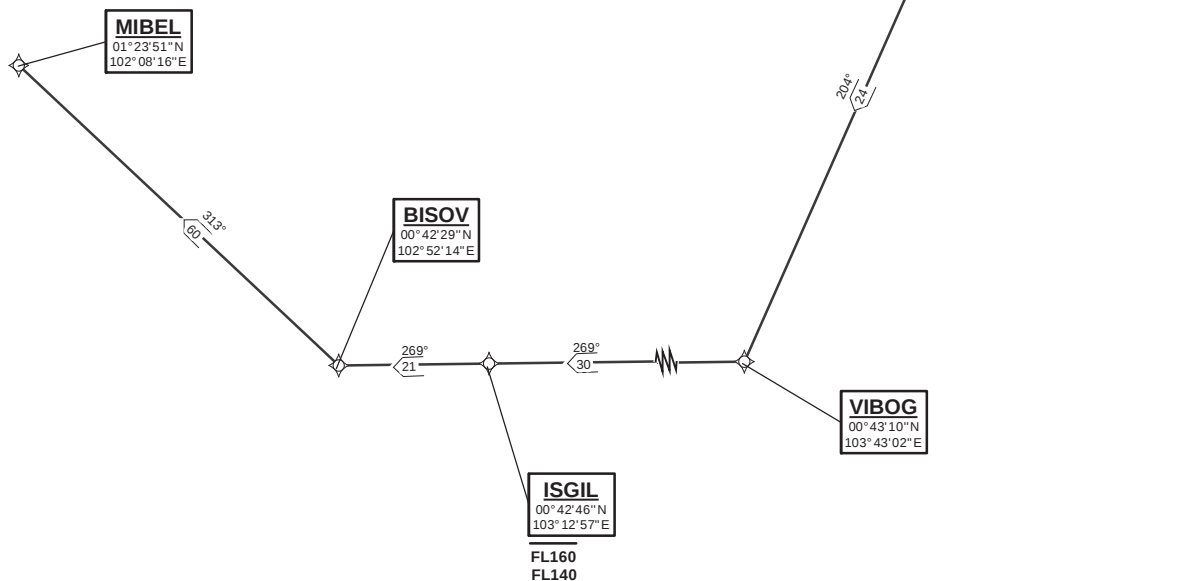


**STANDARD DEPARTURE CHART**  
**RNAV (GNSS) -**  
**INSTRUMENT (SID)**TWR 118.6 / 118.25  
APP 120.3  
124.05  
ACC 133.25TRANSITION ALTITUDE  
11 000ftD-ATIS AP ID-WSSS  
128.6**SINGAPORE/Singapore Changi**  
**RWY 20R**  
**MIBEL DEPARTURES**  
**MIBEL 1F****ELEV, ALT IN FEET**BEARINGS, TRACKS AND  
RADIALS ARE MAGNETIC  
VAR 0°23'E (2020)

DISTANCES IN NM

**GENERAL INFORMATION****INITIAL CLIMB**  
**3000FT****CAUTION: RWY 02R/20L NOT AVAILABLE FOR CIVIL USE UNTIL FURTHER ADVISED****NOTE:** RADAR REQUIRED**NOTE:** RNAV-1 NAVIGATION SPECIFICATION GNSS REQUIRED**NOTE:** ACFT UNABLE TO FLY THE SID PROFILE  
SHALL INFORM ATC PRIOR TO DEPARTURE AND  
EXPECT RADAR VECTORED IF NECESSARY**NOTE:** WHEN TAKEN OFF THE SID, AS INSTRUCTED BY ATC,  
REFER TO ENR 1.5, SECTION 3, PARAGRAPH 3.4.2  
- FOR RWY 20R MINIMUM CLIMB GRADIENT**NOTE:** REFER TO BACK PAGE FOR  
- FORMAL AND TABULAR DESCRIPTIONS  
- RADIO COM FAILURE PROCEDURES**PROCEDURE INFORMATION**SID SHALL NOT EXCEED IAS 230KTS UNTIL  
PASSING 4000FT AMSL AND NOT EXCEED  
IAS 250KTS UNTIL PASSING 10000FT AMSL.CRUISING LEVELS WILL BE ISSUED AFTER TAKE-OFF  
BY SINGAPORE RADAR.SID SHALL BE ON A MINIMUM CLIMB GRADIENT OF 6%  
UNTIL REACHING OR PASSING 2500FT, THEREAFTER 3.3%.

| GND SPEED - KNOTS | 75  | 100 | 150 | 200  | 250  | 300  |
|-------------------|-----|-----|-----|------|------|------|
| 6% V/V (fpm)      | 456 | 608 | 911 | 1215 | 1518 | 1821 |
| 3.3% V/V (fpm)    | 251 | 334 | 501 | 668  | 835  | 1003 |



NOT TO SCALE

MIBEL 1F (SID) RNAV GNSS RWY 20R - DESCRIPTIONS

Formal & Abbreviated Descriptions

| Formal Description                          | Abbreviated Description  | Path Terminator | Fly-Over required |
|---------------------------------------------|--------------------------|-----------------|-------------------|
| To LEDOX on course 203° at or above 1500ft. | LEDOX [M203; A015+] -    | CF              | N                 |
| To LETGO at or above 2500ft, turn left.     | LETGO [A025+; L] -       | TF              | N                 |
| To SAMKO at or above 4000ft, turn right.    | SAMKO [A040+; R] -       | TF              | N                 |
| To VIBOG, turn right.                       | VIBOG [R] -              | TF              | N                 |
| To ISGIL, between FL140 to FL160.           | ISGIL [FL140+; FL160-] - | TF              | N                 |
| To BISOV, turn right.                       | BISOV [R] -              | TF              | N                 |
| To MIBEL.                                   | MIBEL                    | TF              | N                 |

Tabular Descriptions

| Path Term | Waypoint Name | Fly-Over | Course °M(°T) | Distance (NM) | Turn Direction | Altitude         | Speed Limit | Navigation Spec |
|-----------|---------------|----------|---------------|---------------|----------------|------------------|-------------|-----------------|
| CF        | LEDOX         | -        | 203(203.4)    | 5.0           | -              | A015+            | -           | RNAV1           |
| TF        | LETGO         | -        | 203(203.4)    | 3.0           | L              | A025+            | -           | RNAV1           |
| TF        | SAMKO         | -        | 198(198.4)    | 9.0           | R              | A040+            | -           | RNAV1           |
| TF        | VIBOG         | -        | 204(204.4)    | 24.0          | R              | -                | -           | RNAV1           |
| TF        | ISGIL         | -        | 269(269.4)    | 30.0          | -              | FL140+<br>FL160- | -           | RNAV1           |
| TF        | BISOV         | -        | 269(269.4)    | 21.0          | R              | -                | -           | RNAV1           |
| TF        | MIBEL         | -        | 313(313.4)    | 60.0          | -              | -                | -           | RNAV1           |

Radio Communications Failure Procedure

|   |                                                                                                                                                                                                                                   |
|---|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | SET TRANSPONDER TO MODE A/C CODE 7600                                                                                                                                                                                             |
| 2 | COMMUNICATIONS FAILURE OCCURS IMMEDIATELY AFTER DEPARTURE:<br><br>PROCEED DIRECT TO SAMKO HOLDING AREA (SHA) CLIMBING TO THE LAST ASSIGNED ALTITUDE, THEREAFTER REFER TO SINGAPORE AIP ON RADIO COMMUNICATIONS FAILURE PROCEDURE. |