

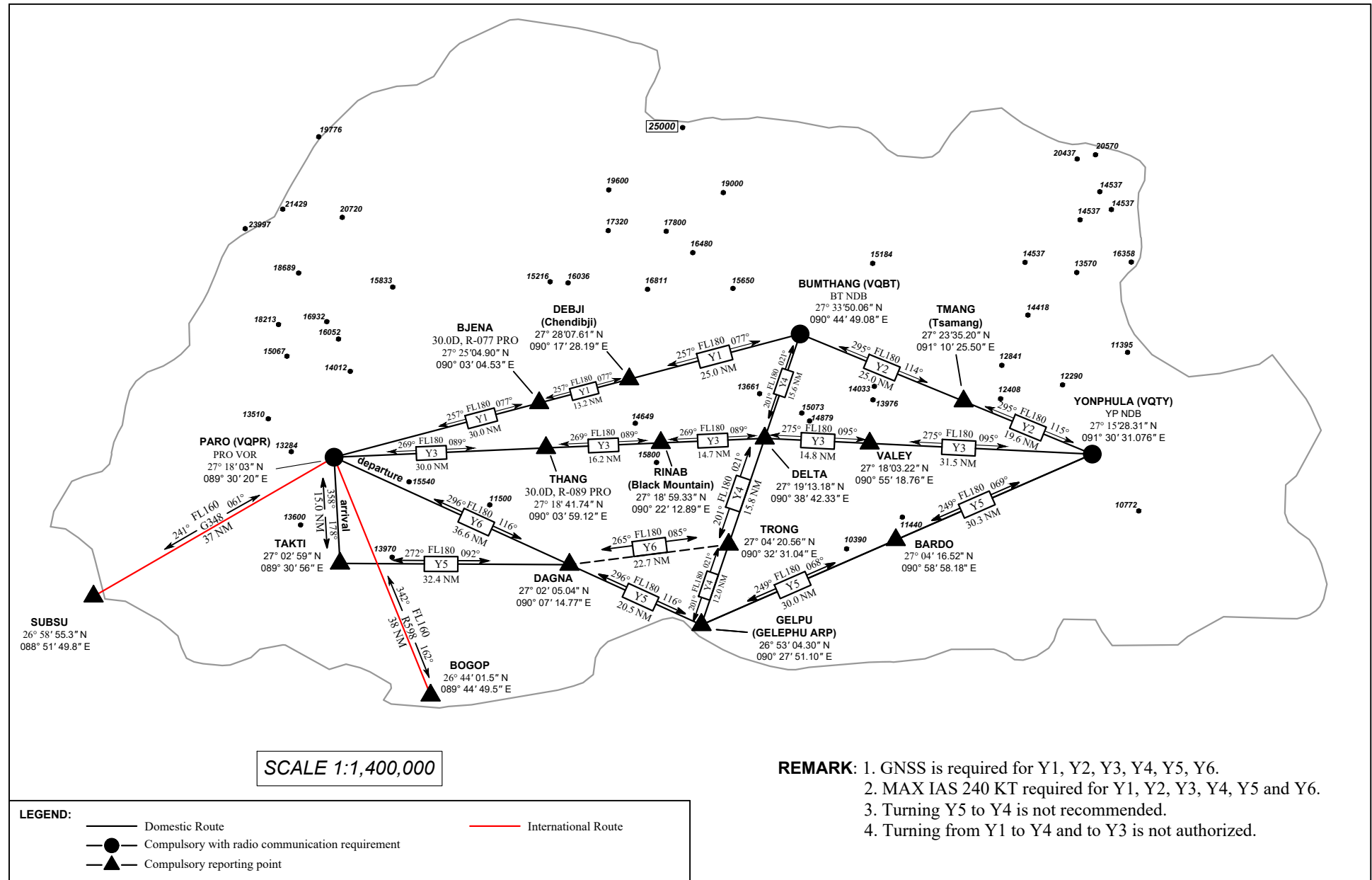
ENR 3 ATS ROUTES
ENR 3.1 AREA NAVIGATION (RNAV) ROUTE

Route designator (RNAV 5 ' ?) Name of the significant points Co-ordinates (WGS-84)	Track MAG (GEO) VOR RDL DIST (COP)	Upper limits Lower limits Minimum flight altitude Airspace classification	Lateral limits KM	Direction of Cruising levels		Remarks Controlling Unit Frequency
				odd	Even	
1	2	3	4	5		6
G348 PARO VOR (PRO) 27°18'03"N 089°30'20"E SUBSU 26°58'55.3"N 088°51'49.8E	<u>241°</u> 061° 37 NM	<u>FL 460</u> 16 000 Class F	-	↑	↓	For further information Refer AIP India
R598 PARO VOR (PRO) 27°18'03"N 089°30'20"E BOGOP 26°44'01.5"N 089°44'49.5"E	<u>162°</u> 342° 38 NM	<u>FL 460</u> 16 000 Class F	-	↑	↓	For further information Refer AIP India
Y1 ▲ PARO (VQPR) VOR (PRO) 27° 18'03.00" N 089° 30'20.00" E ▲ BJENA 27° 25'04.90" N 090° 03'04.53" E ▲ DEBJI (Chendibji) 27° 28'07.61" N 090° 17'28.19" E ▲ BUMTHANG (VQBT) NDB (BT) 27° 33'50.06" N 090° 44'49.08" E	<u>077</u> 257 30.0 NM <u>077</u> 257 13.2 NM <u>077</u> 257 25.0 NM	<u>FL 290</u> 18 000 Class F	12		↓ ↑	MAX IAS 240 KT.
Y2 ▲ BUMTHANG (VQBT) NDB (BT) 27° 33'50.06" N 090° 44'49.08" E ▲ TMANG (Tsamang) 27° 23'35.20" N 091° 10'25.50" E ▲ YONPHULA (VQTY) NDB (YP) 27° 15'28.31" N 091° 30'31.076" E	<u>114</u> 295 25.0 NM <u>115</u> 295 19.6 NM	<u>FL 290</u> 18 000 Class F	12		↓ ↑	MAX IAS 240 KT.
Y3 ▲ PARO (VQPR) VOR (PRO) 27° 18'03.00" N 089° 30'20.00" E ▲ THANG 27° 18'41.74" N 090° 03'59.12" E ▲ RINAB (Black Mountain) 27° 18'59.33" N 090° 22'12.89" E ▲ DELTA 27° 19'13.18" N 090° 38'42.33" E ▲ VALEY 27° 18'03.22" N 090° 55'18.76" E ▲ YONPHULA (VQTY) NDB (YP) 27° 15'28.31" N 091° 30'31.076" E	<u>089</u> 269 30.0 NM <u>089</u> 269 16.2 NM <u>089</u> 269 14.7 NM <u>095</u> 275 14.8 NM <u>095</u> 275 31.5 NM	<u>FL 290</u> 18 000 Class F	12		↓ ↑	MAX IAS 240 KT.

Route designator (RNAV 5 ^{1,2}) Name of the significant points Co-ordinates (WGS-84)	Track MAG (GEO) VOR RDL DIST (COP)	Upper limits Lower limits Minimum flight altitude Airspace classification	Lateral limits KM	Direction of Cruising levels		Remarks Controlling Unit Frequency
				odd	Even	
1	2	3	4	5		6
Y4 ▲ BUMTHANG (VQBT) NDB (BT) 27° 33' 50.06" N 090° 44' 49.08" E ▲ DELTA 27° 19' 13.18" N 090° 38' 42.33" E ▲ TRONG 27° 04' 20.56" N 090° 32' 31.04" E ▲ GELPU (GELEPHU ARP) 26° 53' 04.30" N 090° 27' 51.10" E	<u>021</u> 201 15.6 NM <u>021</u> 201 15.8 NM <u>021</u> 201 12.0 NM	FL 290 18 000 Class F	12	↓	↑	1. MAXIAS240KT. 2. Aircraft shall be operated within Bhutan FIR due to close proximity to India FIR.
Y5 ▲ YONPHULA (VQTY) NDB (YP) 27° 15' 28.31" N 091° 30' 31.076" E ▲ BARDO 27° 04' 16.52" N 090° 58' 58.18" E ▲ GELPU (GELEPHU ARP) 26° 53' 04.46" N 090° 27' 50.97" E ▲ DAGNA 27° 02' 05.04" N 090° 07' 14.77" E ▲ TAKTI 27° 02' 59.00" N 089° 30' 56.00" E ▲ PARO (VQPR) VOR (PRO) 27° 18' 03.00" N 089° 30' 20.00" E	<u>069</u> 249 30.3 NM <u>068</u> 249 30.0 NM <u>116</u> 296 20.5 NM <u>092</u> 272 32.4 NM <u>178</u> 358 15.0 NM	FL 290 18 000 Class F	12	↓	↑	1. MAXIAS240KT. 2. Aircraft shall be operated within Bhutan FIR due to close proximity to India FIR.
Y6 ▲ PARO (VQPR) VOR (PRO) 27° 18' 03.00" N 089° 30' 20.00" E ▲ DAGNA 27° 02' 05.04" N 090° 07' 14.77" E ▲ TRONG 27° 04' 20.56" N 090° 32' 31.04" E	<u>116</u> 296 36.6 NM <u>085</u> 265 22.7 NM	FL 290 18 000 Class F	12	↓	↑	MAX IAS 240 KT.
1. RNAV = area navigation specification. 2. RNAV 5 represents aircraft and operating requirements, including a 9.26 KM (5 NM) lateral performance.						

RNAV ROUTE CHART

BHUTAN / Bhutan FIR



SCALE 1:1,400,000

- REMARK:**
1. GNSS is required for Y1, Y2, Y3, Y4, Y5, Y6.
 2. MAX IAS 240 KT required for Y1, Y2, Y3, Y4, Y5 and Y6.
 3. Turning Y5 to Y4 is not recommended.
 4. Turning from Y1 to Y4 and to Y3 is not authorized.

LEGEND:

- Domestic Route
- International Route
- Compulsory with radio communication requirement
- ▲ Compulsory reporting point

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