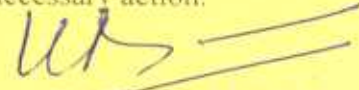


## AIP SUPPLEMENT

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		15 JANUARY 2008

File No: AAI/NAD/09-09/03/AIP-SUPP (Part-AIS)

Following supplement is issued for information, guidance and necessary action.



**K. RAMALINGAM**  
**CHAIRMAN**

**AIRPORTS AUTHORITY OF INDIA**

[W.E.F. 0803280001]

**SUB: COMMISSIONING OF NEW BANGALORE INTERNATIONAL AIRPORT –  
 REALIGNMENT OF ATS ROUTES.**

VOR DME at Bangalore (BIA) has been installed at 131223.39N 0774351.25E for new Bangalore International Airport. Following ATS Routes have been realigned as per the details below:

Route Designator (RNP Type) Name of Significant Points Coordinates	Track- Magnetic/Geo VOR Radial Distance COP	Upper Limit Lower Limit MFA Airspace Classification	Lateral Limits	Direction of Cruising Levels		Remarks Controlling Unit Frequency
				Odd	Even	
<b>W42 (BANGALORE - TIRUCHIRAPALLI)</b>						
▲ BANGALORE VOR (BIA) 131223.39N 0774351.25E	161.341 158NM	F460/F070 6600Ft Class D		↑	↓	1. Minimum 10 Min. longitudinal separation applicable 2. Aircraft shall contact HAL ATC before entering VOR181A & C on 127.7MHz, 122.7MHz. 3. Bangalore APP 121.25MHz, 127.75MHz. 4. Tiruchirapalli APP 118.3MHz, 119.7MHz
▲ TIRUCHIRAPALLI VOR (TTR) 104544.7N 0784248.2E						
<b>W43 [South Bound] (BANGALORE - THIRUVANANTHAPURAM)</b>						
▲ BANGALORE VOR (BIA) 131223.39N 0774351.25E	189 69NM	F460/F115 7800Ft Class D	20NM		↓	1. Minimum 10 Min. longitudinal separation applicable 2. Aircraft shall contact HAL ATC

▲ APGUN 120339.94N 0773457.76E	209 69NM	F460/F115 7800Ft Class D			↓	before entering VOR181 A & C on 127.7MHz, 122.7MHz. 3. Bangalore APP 121.25MHz, 127.75MHz. 4. Coimbatore APP 122.3MHz 5. Trivandrum ACC 125.95MHz 6. Route Bi directional between CCB and TVM VOR.
▲ COIMBATORE VOR (CCB) 110201.6N 0770253.0E	186/006 154NM	F460/F150 10900Ft Class D		↑	↓	
▲ THIRUVANANTHAPURAM VOR (TVM) 082829.3N 0765529.0E				↑	↓	

#### W43 [North Bound] (THIRUVANANTHAPURAM - BANGALORE)

▲ THIRUVANANTHAPURAM VOR (TVM) 082829.3N 0765529.0E	006/186 154NM	F460/F150 10900Ft Class D			↓	↑	1. Minimum 10 Min. longitudinal separation applicable 2. Aircraft shall contact HAL ATC before entering VOR181 B & C on 127.7MHz, 122.7MHz 3. Bangalore APP 121.25MHz, 127.75MHz. 4. Coimbatore APP 122.3MHz 5. Trivandrum ACC 125.95MHz 6. Route Bi directional between CCB and TVM VOR.
▲ COIMBATORE VOR (CCB) 110201.6N 0770253.0E	014 68NM	F460/F115 7800Ft Class D			↓	↑	
▲ UGABA 120859.14N 0771729.41E	025 68NM	F460/F115 7800Ft Class D	20NM		↓		
▲ BANGALORE VOR (BIA) 131223.39N 0774351.25E					↓		

#### W47 [North Bound] (BANGALORE - VISHAKAPATNAM)

▲ BANGALORE VOR (BIA) 131223.39N 0774351.25E	048 71NM	F460/F110 6200Ft Class D	20NM		↓		1. Minimum 10 Min. longitudinal separation applicable. 2. Outside CTA & CTR, Class 'E' airspace. 3. Bangalore APP 121.25MHz, 127.75MHz 4. Kolkata ACC 132.45MHz 5. Chennai ACC 118.9MHz, 125.3MHz.
▲ ANIRO 140209.8N 0783630.2E	042 73NM	F460/F110 5300Ft Class D			↓		
▲ BODEL 145830.5N 0792511.8E	042 122NM	F460/F110 5100Ft Class D			↓		
▲ VIJAYWADA VOR (BBZ) 163118.3N 0804733.7E	066/246 86NM	F460/F110 3300Ft Class D	20NM		↓		
▲ BITEM (VOMF/VECF FIR) 170916.0N 0820759.5E	066/246 71NM	F460/F110 4100Ft Class D			↓	↑	
▲ VISHAKAPATNAM VOR (VVZ) 174003.9N 0831510.0E					↓	↑	

#### W47 [South Bound] (VISHAKAPATNAM - BANGALORE)

▲ VISHAKAPATNAM VOR (VVZ) 174003.9N 0831510.0E	246/066 71NM	F460/F110 4100Ft Class D	20NM	↑	↓	1. Minimum 10 Min. longitudinal separation applicable. 2. Outside CTA & CTR, Class 'E' airspace. 3. Bangalore APP 121.25MHz, 127.75MHz 4. Kolkata ACC 132.45MHz
▲ BITEM (VOMF/VECF FIR) 170916.0N 0820759.5E	246/066 86NM	F460/F110 3300Ft Class D		↑	↓	
▲ VIJAYWADA VOR (BBZ) 163118.3N 0804733.7E	238 151NM	F460/F110 4200Ft Class D			↓	
▲ VABDI 150551.18N 0783801.51E	207 125NM	F460/F110 6000Ft Class D			↓	
▲ BANGALORE VOR (BIA) 131223.39N 0774351.25E					↓	

### W56 [South Bound] (MUMBAI - BANGALORE)

▲ MUMBAI VOR (BBB) 190507.4N 0725231.3E	153 150NM	F460/F100 6300Ft Class D	20NM		↓	1. Mumbai ACC 125.35MHz, 132.7MHz, 120.5MHz 2. Bangalore APP 121.25MHz, 127.75MHz 3. Mangalore ACC 127.55MHz, 128.7MHz
▲ EPKOS 165307.9N 0740713.2E	157 68NM	F460/F100 4800Ft Class D			↓	
▲ BELGAUM VOR (BBM) 155122.2N 0743701.0E	136 74NM				↓	
▲ IBEPA (VABF/VOMF FIR) 150004.4N 0753241.6E	137 51NM	F460/F100 4400Ft Class D			↓	
▲ UNSAL 142404.6N 0760956.3E	130 116NM	F460/F210 6000Ft Class D			↓	
▲ BANGALORE VOR (BIA) 131223.39N 0774351.25E						

### W56 [North Bound] (BANGALORE - MUMBAI)

▲ BANGALORE VOR (BIA) 131223.39N 0774351.25E	338 91NM	F460/F105 6800Ft Class D	20NM		↓	1. Bangalore APP 121.25MHz, 127.75MHz 2. Between Bellary VOR (BBI) and Mumbai VOR (BBB), deviation to the right and descent below FL250 prior to 55D from Mumbai VOR (BBB) may be approved by Mumbai ATC in coordination with Pune ATC. 3. Mumbai ACC 125.35MHz, 132.7MHz, 120.5MHz 4. Chennai ACC
▲ OPAMO 143534.6N 0770525.9E	343 36NM				↓	
▲ BELLARY VOR (BBI) 150954.4N 0765250.0E	318 73NM			F460/F250 6100Ft Class D		

▲ MINIT (VABF/VOMF FIR) 160246.1N 0755956.4E	320 45NM	F460/F250 6200Ft Class D			↓	118.9MHz, 125.3MHz
▲ AGELA 163624.0N 0752757.0E	317 121NM					
▲ AVKOR 180203.5N 0735757.3E	317 89NM					
▲ MUMBAI VOR (BBB) 190507.4N 0725231.3E						
<b>W57 [North Bound] (BANGALORE - HYDERABAD)</b>						
▲ BANGALORE VOR (BIA) 131223.39N 0774351.25E	012 77NM	F460/F100 6400Ft Class D	20NM		↓	1. Minimum 10 Min. longitudinal separation applicable
▲ LATID 142834.6N 0775655.5E	011 54NM					
▲ VIRAM 152134.4N 0780555.4E	011 114NM	F460/F100 7500Ft Class D			↓	2. Bangalore APP 121.25MHz, 127.75MHz
▲ HYDERABAD VOR (HIA) 171340.11N 0782420.88E						
<b>W57 [South Bound] (HYDERABAD - BANGALORE)</b>						
▲ HYDERABAD VOR (HIA) 171340.11N 0782420.88E	176 128NM	F460/F100 6000Ft Class D	20NM		↓	1. Minimum 10 Min. longitudinal separation applicable
▲ VABDI 150551.18N 0783801.51E	207 125NM					
▲ BANGALORE VOR (BIA) 131223.39N 0774351.25E					↓	2. Hyderabad ACC 128.35MHz, 120.95MHz
<b>W70 (BANGALORE - SRI SATYA SAI)</b>						
▲ BANGALORE VOR (BIA) 131223.39N 0774351.25E	006/186 57NM	F460/F150 6500Ft Class D	20NM		↑	1. Outside CTA & CTR, Class 'E' airspace
▲ SRI SATYA SAI NDB (SAI) 140859.7N 0774704.6E						
2. Bangalore APP 121.25MHz, 127.75MHz						
3. Minimum 10 Min. longitudinal separation applicable.						
4. Chennai ACC 118.9MHz, 125.3MHz						

**W81 (BANGALORE - IGAMA)**

▲ BANGALORE VOR (BIA) 131223.39N 0774351.25E	268/087 165NM	F460/F210 7800Ft Class E	20NM	↑	↓	1. Minimum 10 Min. longitudinal separation applicable 2. Bangalore APP 121.25MHz, 127.75MHz. 3. Mangalore ACC 127.55MHz, 128.7MHz.
▲ MANGALORE VOR (MML) 125740.6N 0745517.9E	287/107 176NM	F460/F100 3800Ft Class E				
▲ IGAMA 134104.8N 0715958.2E						

**W101 [East Bound] (GOA - BANGALORE)**

▲ GOA VOR (GGO) 152247.3N 0734845.4E	115 149NM	F460/F080 5000Ft Class E	20NM	↓	↓	1. Outside CTR and CTA, Class 'E' airspace. 2. Minimum 10 Min. longitudinal separation applicable 3. Goa APP 119.7MHz 4. Bangalore APP 121.25MHz, 127.75MHz. 5. Mangalore ACC 127.55MHz, 128.7MHz.
▲ UNSAL 142404.6N 0760956.3E	130 116NM	F460/F210 6000Ft Class E				
▲ BANGALORE VOR (BIA) 131223.39N 0774351.25E						

**W101 [West Bound] (BANGALORE - GOA)**

▲ BANGALORE VOR (BIA) 131223.39N 0774351.25E	294 137NM	F460/F210 6100Ft Class E	20NM	↓	↓	1. Outside CTR and CTA, Class 'E' airspace. 2. Minimum 10 Min. longitudinal separation applicable. 3. Goa APP 119.7MHz 4. Bangalore APP 121.25MHz, 127.75MHz. 5. Mangalore ACC 127.55MHz, 128.7MHz.
▲ GUNAS 140204.7N 0753256.6E	311 129NM	F460/F080 5000Ft Class E				
▲ GOA VOR (GGO) 152247.3N 0734845.4E						

**W116 (BANGALORE - CHENNAI)**

▲ BANGALORE VOR (BIA) 131223.39N 0774351.25E	111 45NM	F460/F110 6000Ft Class D	20NM	↓	↓	1. Minimum 10 Min. longitudinal separation applicable. 2. Chennai ACC 118.9MHz, 125.3MHz 3. Bangalore APP 121.25MHz, 127.75MHz.
▲ TEBAM 125758.1N 0782751.3E	091 100NM					
▲ CHENNAI VOR (MMV) 125936.1N 0801014.5E						

### W117 (CHENNAI - BANGALORE)

▲ CHENNAI VOR (MMV) 125936.1N 0801014.5E	286 75NM	F460/F110 6000Ft Class D	20NM	↓	1. Minimum 10 Min. longitudinal separation applicable. 2. Chennai ACC 118.9MHz, 125.3MHz 3. Bangalore APP 121.25MHz, 127.75MHz
▲ XIVIL 131739.68N 0785504.01E	268 70NM				
▲ BANGALORE VOR (BIA) 131223.39N 0774351.25E					

### W118 [South Bound] (BANGALORE - COCHIN INTERNATIONAL)

▲ BANGALORE VOR (BIA) 131223.39N 0774351.25E	189 69NM	F460/F110 7800Ft Class D	20NM	↓	1. Minimum 10 Min. longitudinal separation applicable 2. Bangalore APP 121.25MHz, 127.75MHz 3. Aircraft shall contact HAL ATC before entering VOR181 A & C on 127.7MHz, 122.7MHz 4. Coimbatore APP 122.3MHz 5. Cochin Intl. APP 119.75MHz 6. Trivandrum ACC 125.95MHz, 120.9MHz 7. Route Bi directional between CCB and CIA VOR.
▲ APGUN 120339.94N 0773457.76E	209 69NM	F460/F110 7800Ft Class D			
▲ COIMBATORE VOR (CCB) 110201.6N 0770253.0E	220/040 66NM	F460/F110 6900Ft Class D			
▲ COCHIN INTERNATIONAL VOR (CIA) 100901.8N 0762221.3E					

### W118 [North Bound] (COCHIN INTERNATIONAL - BANGALORE)

▲ COCHIN INTERNATIONAL VOR (CIA) 100901.8N 0762221.3E	040/220 66NM	F460/F110 6900Ft Class D	20NM	↓	↑	1. Minimum 10 Min. longitudinal separation applicable. 2. Bangalore APP 121.25MHz, 127.75MHz 3. Aircraft shall contact HAL ATC before entering VOR181 B & C on 127.7MHz, 122.7MHz 4. Coimbatore APP 122.3MHz 5. Cochin Intl. APP 119.75MHz 6. Trivandrum ACC 125.95MHz, 120.9MHz 7. Route Bi directional between CCB and CIA VOR.
▲ COIMBATORE VOR (CCB) 110201.6N 0770253.0E	014 68NM	F460/F110 7800Ft Class D		↓	↑	
▲ UGABA 120859.14N 0771729.41E	025 68NM	F460/F110 7800Ft Class D		↓		
▲ BANGALORE VOR (BIA) 131223.39N 0774351.25E				↓		

### W121 (MANGALORE - BANGALORE)

▲ MANGALORE VOR (MML) 125743.0N 0745517.9E	032/212 74NM	F200/F080 6100Ft Class D	20NM	↓	↑	1. Outside CTR and CTA, Class 'E' airspace 2. Minimum 10 Min. longitudinal
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