# Frequency Spectrum sharing in the band (87-108 MHz)

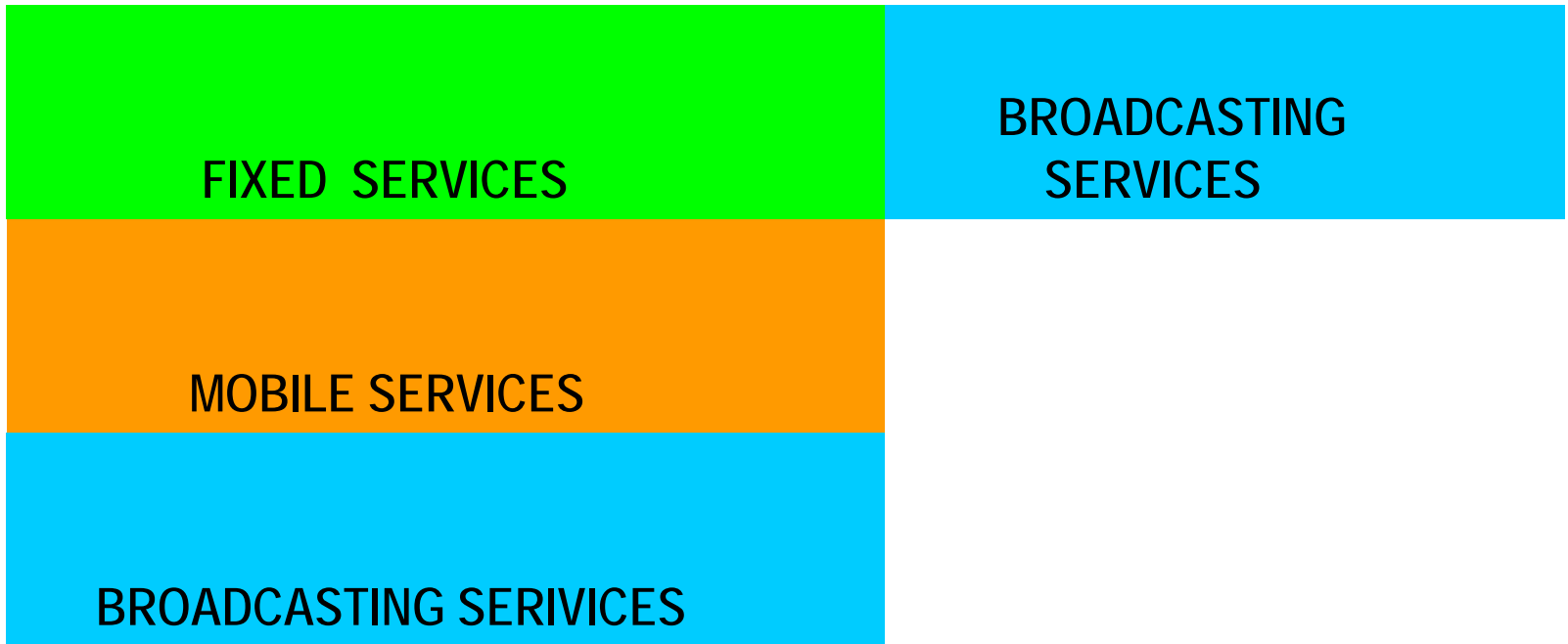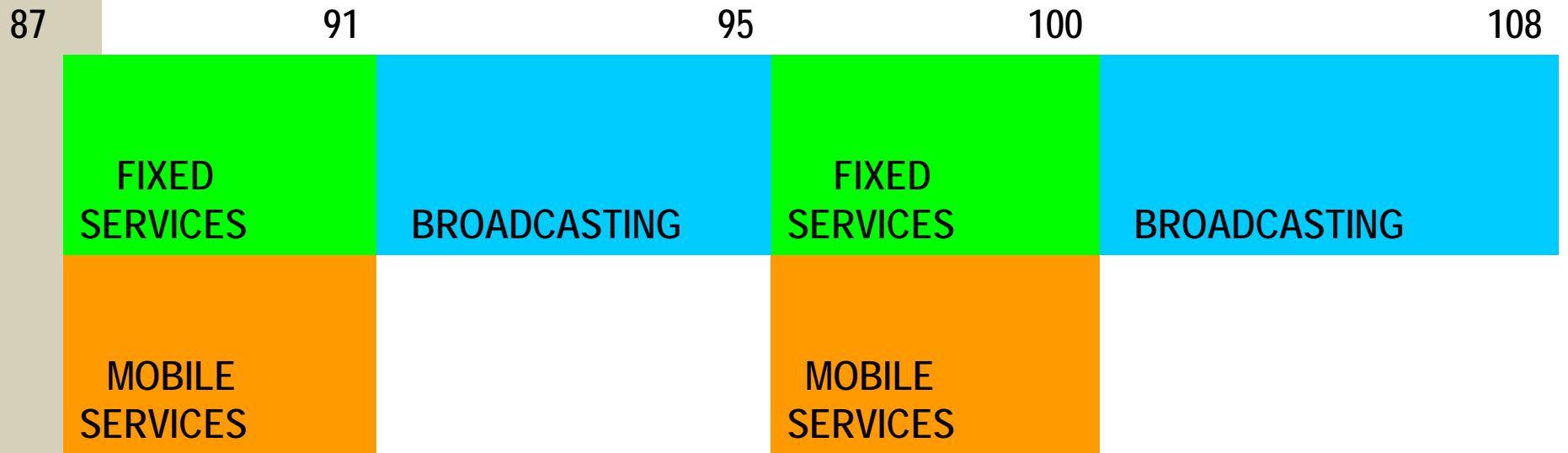| 87.0 | 100.0 | 100.8 |
|------|-------|-------|

| FIXED SERVICES | BROADCASTING SERVICES |
|----------------|----------------------|
| MOBILE SERVICES | |
| BROADCASTING SERIVICES | |

# Spectrum available for Broadcasting services in the band 87-108 MHz

| 87 | 91 | 95 | 100 | 108 |
|----|----|----|-----|-----|

| FIXED SERVICES | BROADCASTING | FIXED SERVICES | BROADCASTING |
|----------------|--------------|----------------|--------------|
| MOBILE SERVICES | | MOBILE SERVICES | |

# Utilisation of available spectrum for broadcasting

| 91 | | 95 | | 100 | | 104 | | 108 |

**BROADCASTING**

**BROADCASTING**

PRIVATE FM B/C

PRASAR
BHARATI
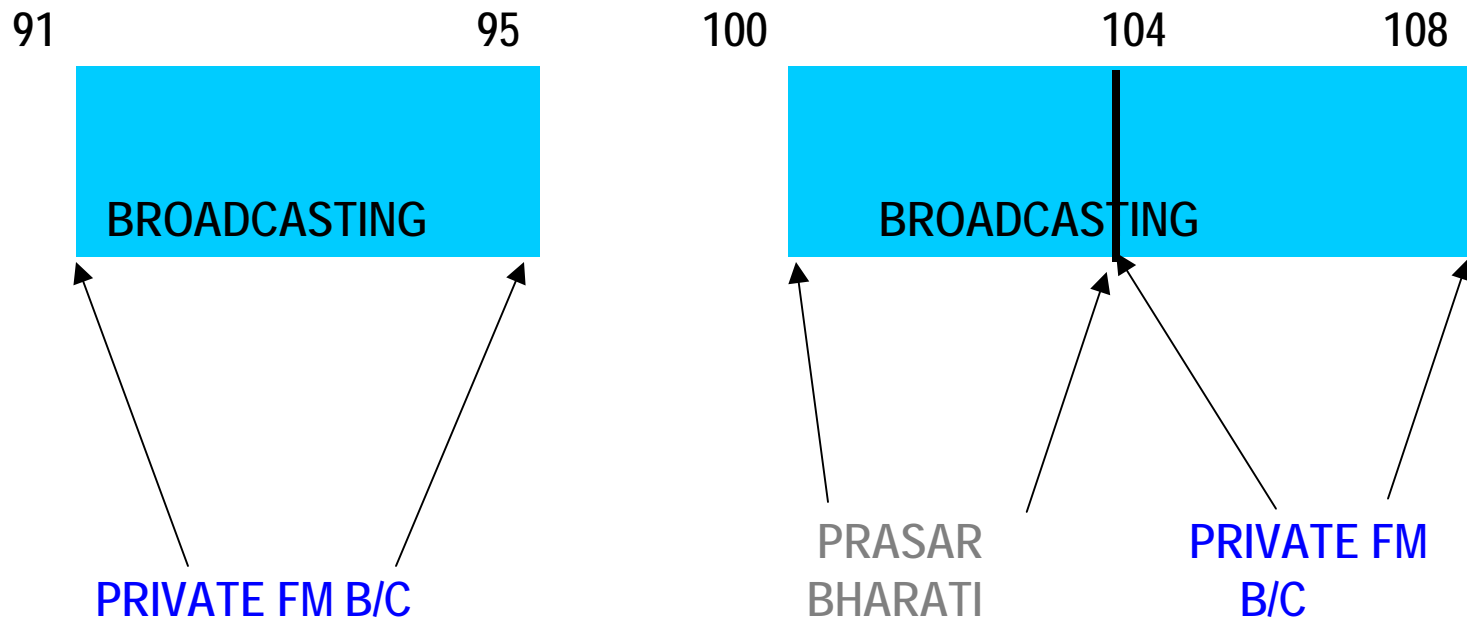
PRIVATE FM
B/C

# Details of Private FM Broadcasting under Phase I

NUMBER OF CITIES  COVERED :          12

NUMBER OF BROADCASTERS:          8

NUMBER OF LICENCES GRANTED:          21

NUMBER OF  FREQUENCY  SPOTS :          10

# Details of Cities covered in Phase II

- TYPE  A +          4
- TYPE  A            9
- TYPE  B           17
- TYPE  C           47
- TYPE  D           10

    TOTAL          87

# Details of Private operators and licencses in Phase I and Phase II

- Number of operators          40
- Number of licences           280 +21

  Prasar Bharati  assignments   520

# Details of Operators in Phase I

1. MUSIC BROADCAST PVT LTD
2. ENTERTAINMENT NETWORK INDIA LTD
3. RADIO MID DAY WEST INDIA LTD
4. RADIO TODAY BROADCAST  LTD
5. UDAYA ATV LTD
6. SUN TV LTD
7. INDIA FM PVT LTD
8. HITZ FM RADIO INDIA PVT LTD

# Details of Operators in Phase II

15.      KUSHAL GLOBAL (2)
16.      MALAR PUBLICATIONS PVT. LTD.(7)
17.      MUSIC BROADCAST PVT. LTD.(17)
18.      MUTHOOT FINANCE PVT. LTD.(1)
19.      NEUTRAL PUBLISHING HOUSE LTD.(2)
20.      NOBLE BROADCASTING CORPN. (1)
21.      PAN INDIA NETWORK (11)
22.      PCM  CEMENT CONCRETE PVT. LTD.(2)
23.      POSITIV RADIO PVT. LTD.(4)
24.      PURVY BROADCAST PVT. LTD.(1)
25.      PUDHARI PUBLICATIONS PVT. LTD(1)
26.      RANEKA  FINCOM PVT. LTD.(1)

Note:  The numbers in the bracket indicates the total number of licenses

# Details of Operators in Phase II

1.     ADLABS FILMS LTD.(45)
2.     ANANDA OFFSET PVT. LTD.(1)
3.     ASIANET COMMUNICATIONS LTD.(2)
4.     BAG Infotainment (10)
5.     CLEAR MEDIA INDIA PVT. LTD.(1)
6.     CHINAR CIRCUITS PVT. LTD (2).
7.     CENTURY COMMUNICATION LTD.(8)
8.     EASTERN MEDIA LTD.(2)
9.     ENTERTAINMENT NETWORK (I) LTD.(25)
10.    HT MUSIC & ENTERTAINMENT CO. (4)
11.    INDIGO MASS COMMUNICATION(2)
12.    GWALIOR FARMS PVT. LTD.(1)
13.    ITM SOFTWARE & E"TAINMENT(1)
14.    KAL RADIO PVT. LTD.(18)

Note: The numbers in the bracket indicates the total number of licenses

# Details of Operators in Phase II

27.       RAJASTHAN PATRIKA PVT. LTD.(4)
28.       RADIO TODAY B/C PVT. LTD (7).
29.       RADIO MID-DAY WEST PVT. LTD.(6)
30.       SHRI PURAN MULTIMEDIA LTD.(8)
31.       SINGLA PROPERTIES(1)
32.       SOUTH ASIA FM  LTD.(23)
33.       SYNERGY MEDIA ENTERTN. LTD. (17)
34.       SYNTECH INFORMATICS PVT. LT
35.       THE MALAYALA MANORAMA CO. (4)
36.       THE MATHRUBHUMI PRINTING (4)

- **Note:  The numbers in the bracket indicates the total number of licenses**

# Engineering considerations for Community Radio broadcasting

- Assigned emission  bandwidth   180 KHz
- Max. Power  assigned                 50Watts( 100 W eirp)
- Max. antenna height                   30 metres
- Expected coverage                      4-6 KMs
    ( in urban environment)
    ( in rural environment)              6-15 KMs

# Community Radio Stations in India
## ( as on 31st July, 2007)

| | |
|---|---|
| Number of community radio stations allotted frequency | 125 |
| Number of stations brought into use | 25 |
| Number of stations could not be be cleared due to spectrum non-availability | 12 |

# Limitations in spectrum management for community radio broadcasting

- Limited frequency spots earmarked due to non availability of spectrum

- Option for H-24 operation

- Poor selective quality of receivers which does not permit less adjacent channel spacing

- Many stations within the city/town

# Restrictions relating to frequency assignment as per Ministry of I&B Guidelines

- In the event of more than one applicant for a single frequency at a given place the successful applicant will be selected by a Committee based on the basis of standing in the community, commitment, etc.,

- An applicant/organisation shall not be granted more than one permission for community radio operations

# Procedure for WPC's Operating licence.

- After obtaining permission for establishing community radio, from the Ministry of I&B, apply to WPC for necessary frequency clearance.

- Apply for frequency clearance in the appropriate format enclosing a copy of above document.

- Apply simultaneously for the SACFA clearance.

- After SACFA, go for the GOPA ( Grant of Permission Agreement) with the Ministry of I&B.

- Also, after SACFA clearance, apply for Wireless Operating Licence (WOL) along with a copy of SACFA clearance, copy of LOI issued by Ministry of Communications &IT, copy of invoice of equipment procured, copy of GOPA and requisite payment as indicated in the letter of agreement in principle.

# Growth of Community Radio
## (only frequency earmarking)
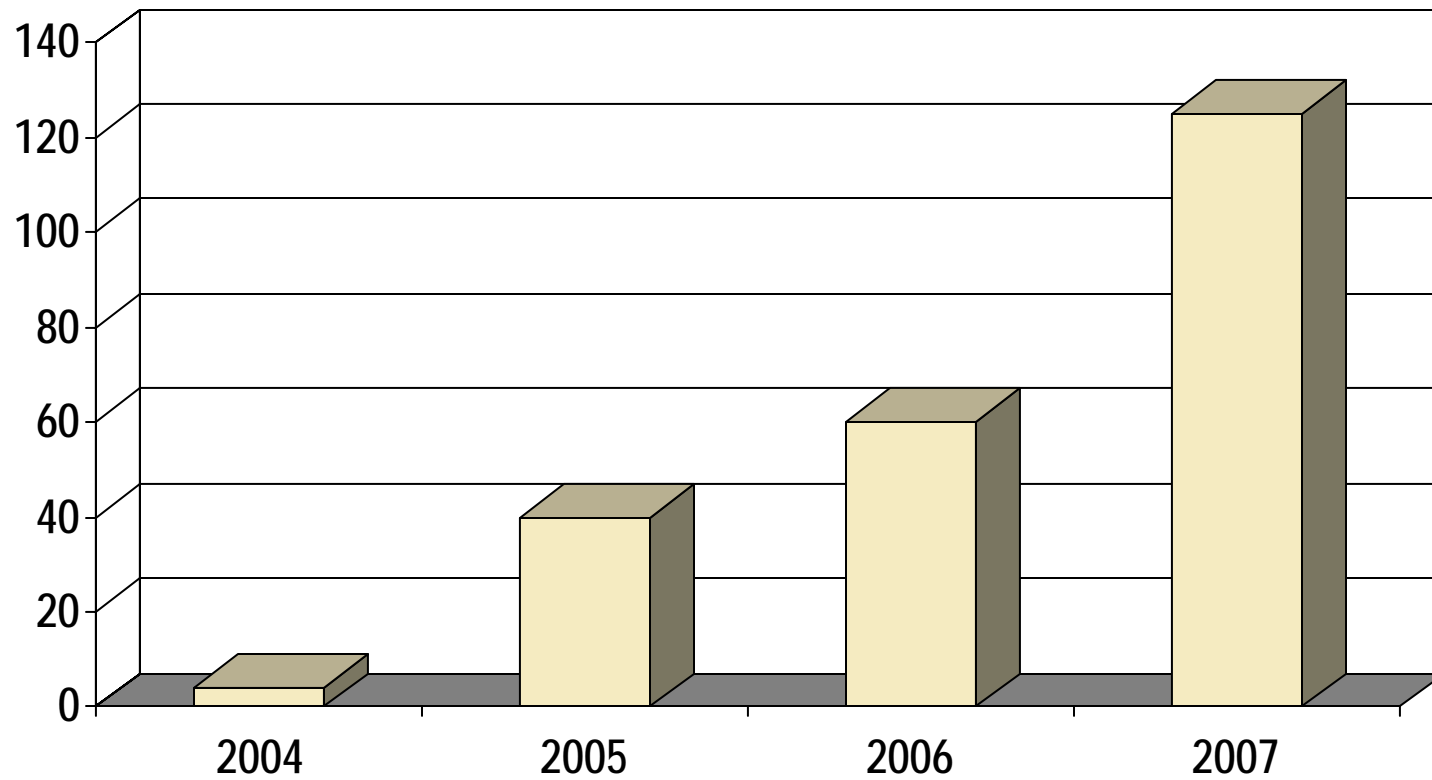
# A comparison between Wimax and Community Radio (similarities)

- Knowledge dissemination
- Learning
- Information exchange
- Entertainment
- Society development
- Education
- Point to multipoint distribution

# A comparison between Wimax and Community Radio (dissimilarities)

| Community Radio | Wimax technology |
|---|---|
| It is a broadcast meant for all (broadcast service) | Although it is in broadcast mode, reception is possible only through subscription |
| Cheaper receivers | Comparatively costly hardware |
| Own language, immediate reach | Language restriction, minimum understanding level required |
| Maximum information as per need of the hour | Information is to be searched based on the requirement |
| Addressed for the particular society, knowledge level no bar | Common addressing, but required Information is to be searched |
| No abrupt technological changes | Abrupt technological changes anticipated |
| Low spectrum requirements | Higher spectrum requirements |

# SACFA APPLICATIONS FILING PROCEDURE

**HOME**
**ABOUT WPC**
**LICENSE**
**SACFA**
EXAMINATION
**NFAP**
**NEW TECHNOLOGY GROUP**
**PROFORMAS**
**MISCELLANEOUS**
**RULES AND REGULATIONS**
**ARCHIVE**
**HELP DEMO (New)**
**CONTACT US**

**User ID**

**Password**

**Register**
**Change Password**
**Home Page**

# SACFA APPLICTIONS FILING PROCEDURE CONTD.,

Logout

**Inbox Links**

**User Home**

**Check SACFA Appl Status**

**Check SACFA Member Status**

**View SACFA Application Details**

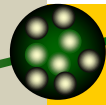**Normal User Activities**

**Fill-in Applicant Details**

**Fill-in License Application Online**

**Modify License Application**

**Fill-in SACFA Application On Line**

**Modify SACFA Application**

# National Accreditation Board for Testing and Calibration Laboratories( NABL)

Various activities like

- training
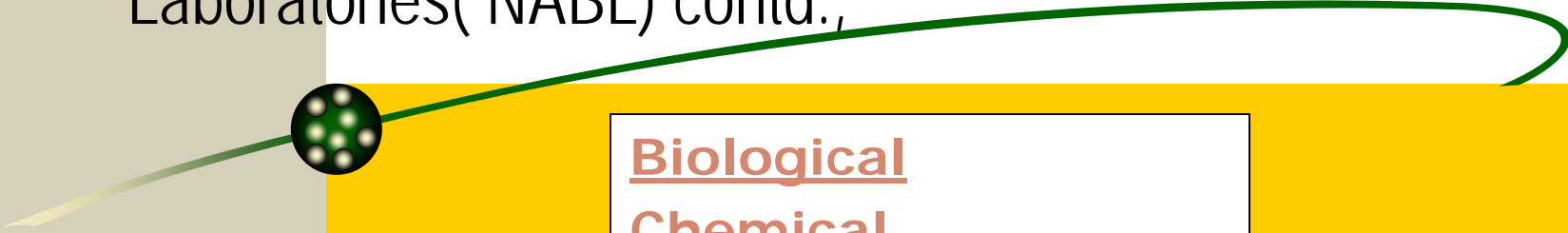- Profiency testing
- Awarness programmes
- Publications
- International recognition

Etc.,

WEB ADDRESS:   www.nabl-india.org

# National Accreditation Board for Testing and Calibration Laboratories( NABL) contd.,

**Biological**
**Chemical**
**Clinical**
**Electrical**
**Electronics**
**Fluid Flow**
**Forensic**
**Mechanical**
**Non-Destructive**
**Photometry**
**Radiological**
**Thermal**