

Government of India
Ministry of Communications
Department of Telecommunications
Wireless Planning & Coordination (WPC) Wing
6th floor, Sanchar Bhawan,
20, Ashoka Road, New Delhi – 110001.

No.: L-14006/01/2021-NTG (Part)

Date: 02.12.2021

To,

The Secretary
Telecom Regulatory Authority of India
Mahanagar Doorsanchar Bhawan
Jawahar Lal Nehru Marg (Old Minto Road)
New Delhi-110002.

Subject: Forwarding of MIB transmitters in 526-582 MHz band.

Reference: (1) DoT letter No. L-14006/01/2021-NTG dated 13.09.2021 and 23.09.2021.
(2) TRAI letter No. C-15/2/(1)/2021-NSL-II dated 27.09.2021.
(3) DoT letter of even no. dated 27.11.2021.

Sir,

In response to TRAI's above-referred letter dated 27.09.2021, DoT had provided clarifications/ information vide letter dated 02.11.2021, wherein it was *inter alia* informed that details regarding transmitters of Ministry of Information & Broadcasting (MIB) in 526-582 MHz band have been sought from respective user departments. Subsequently, vide our above-referred letter dated 27.11.2021, it was informed that details of transmitters from MIB will be communicated shortly.

2. MIB vide letter (No. 2/31/2020-BP&L/BD) dated 29.11.2021 have provided details of terrestrial TV broadcasting transmitters in 526-582 MHz band, protection criteria required and other related information. The letter of MIB is attached as Annexure.

This issues with the approval of Member (T).

Encl: As above.

AVNEESH KUMAR (Avneesh Kumar)
SH Assistant Wireless Adviser
KUMAR to the Government of India
Digitally signed by AVNEESH KUMAR
Date: 2021.12.02 12:14:15 +05'30'

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File No.T-2/401(9)/2020-Tech(e-File)

Comments/information pertaining to Prasar Bharati(DD) wrt JWA, WPC letter dated 02.11.2021 regarding Protection to MIB transmitters in the frequency bands 526-582 MHzband

- i. At present frequency band 526-582MHz is being used by Prasar Bharati (DD) for providing Terrestrial TV Broadcasting. Many Analogue, Digital Ready and Digital Terrestrial TV Transmitters are operating in the band. The old outlived Analogue Terrestrial TV (ATT) Transmitters are already being rationalized/phased out for migration towards digital.
- ii. Details of transmitter locations in the 526-582 MHz band(existing/upcoming/approved) , with site coordinates (latitude-longitude), etc are provided in Annexure.
- iii. As regards keep out distance required to be maintained between TV Transmitters and IMT, it is submitted that results of studies conducted by ITU for sharing and compatibility studies are available as **REPORTITU-RBT.2337-1** {Sharing and compatibility studies between digital terrestrial television broadcasting and terrestrial mobile broadband applications, including IMT in the frequency band 470-694/698MHz}[<https://www.itu.int/pub/R-REP-BT.2337>]. As per the inferences drawn in the analysis, separation distances between MS (IMT) base-stations and DTTB receivers/transmitters are several tens of kms.
- iv. In order to ensure protection to the TV Transmitter services, the keep out distances are required to be kept as secondary coverage Zone of the Transmitters which usually depends on Antenna/Tower Height, Transmitter Power and frequency band of operation etc. Suggestive keep out distance in kilometers is indicated location wise. Exact keep out distance however may vary as per actual site study reports.

Annexure

Locations where TV Transmitters (existing/upcoming/approved) in 526-582 MHz need to be protected

Sr. No.	State	Tx. Location	Latitude	Longitude	Suggestive keep out distance from IMT (in Kms.)
1	ANDHRA PRADESH	TIRUPATI	13° 41'5.9 "	79° 19'41.8"	120
2	ANDHRA PRADESH	VIJAYWADA	16°37'16.8"	80°31'44.8"	120
3	ARUNACHAL PRADESH	ITANAGAR	27°05'29"	93°37'48"	120
4	ASSAM	GUWAHATI	26N0913.200	091E4605.700	120
5	ASSAM	NORTH LAKHIMPUR	27°14'16"	94°06'20"	50
6	BIHAR	LAKHISARAI	25°10'33"	86°05'37"	50
7	BIHAR	MOTIHARI	26°38'60"	84°55'12"	50
8	BIHAR	MUZAFFARPUR	26.13°	85.37°	120
9	BIHAR	SIKANDRA	24°57'41"	86°02'04"	50
10	CHHATISGARH	JAGDALPUR	19:02:34 N	81:55:53 E	120
11	DELHI (UT)	PITAMPURA DELHI	28N4151.000	077E0905.040	150
12	GUJARAT	AHMEDABAD	23N0250.630	072E3130.480	120
13	GUJARAT	BHAVNAGAR	21:45:47 N	72:09:33 E	60
14	GUJARAT	RAJKOT	22:16:34 N	70:50:05 E	120
15	GUJARAT	SURAT	21:06:43 N	72:48:52 E	120
16	GUJARAT	VADODARA	22:17:31N	73:17:23E	120
17	HARYANA	HISAR	29.07N	75.44E	120
18	HIMCHAL PRADESH	KASAULI	30 53 52	76 78 21	120
19	HIMCHAL PRADESH	SHIMLA	31° 6 ft. 13 inch	77 ° 9 ft. 4 inch	120
20	JAMMU & KASHMIR	JAMMU	32 46 32	74 47 29	120
21	JAMMU & KASHMIR	KATHUA	N3223.1031	E 7530.7785	90
22	JAMMU & KASHMIR	NAUSHERA	33°06' North	74° 18' East	150
23	JAMMU & KASHMIR	Patnitop	33N0600.000	075E1745.000	120
24	JAMMU & KASHMIR	Rajouri	33N2243.000	074E2035.000	90
25	JAMMU & KASHMIR	Uri (Green Ridge)	34N0322.000	074E0538.000	120
26	JHARKHAND	Bokaro	23°41'00"	86°10'00"	60
27	JHARKHAND	DUMKA	24°15'40"	87°14'45"	60
28	JHARKHAND	GIRIDIH	24°11'15"	86°18'23"	60
29	JHARKHAND	JAMSHEDPUR	22.5'	86'13"	120
30	JHARKHAND	LOHARDAGA	23°27'024"	84°42'47.1"	50
31	KARNATAKA	DHARWAD	15°27'28"	74°59'47"	120
32	KARNATAKA	KOLAR GOLD FIELD	12° 57' 10.9"	78° 15' 29.5"	60
33	KARNATAKA	MYSURU	12° 16'25.5"	76°40'31.8"	120
34	KARNATAKA	SHIVAMOGGA {SHIMOGA}	13°54'58.5"	75°35'44.58"	120
35	KARNATAKA	VIJAYAPUR	16° 49' 37.5"	75° 43' 9.3"	60
36	KERALA	KOCHI	10°00'40.1"	76°20'28.9"	120
37	KERALA	KOZHIKODE	11°16'56.8"	75°50'25.3"	120
38	KERALA	SHORANUR	10° 46' 59"	76° 16' 50"	60
39	KERALA	THIRUVANANTHAPURAM	08N3325.900	076E5746.200	120
40	LADAKH	Himbotingla	34N3459.000	076E1631.000	120
41	MADHYA PRADESH	DATIA	25:39:19 N	78:27:21 E	70
42	MADHYA PRADESH	GWALIOR	26:12:50 N	78:10:04 E	120
43	MADHYA PRADESH	KURWAI	24:07:17 N	78:02:38 E	70
44	MAHARASHTRA	AMBAJOGAI	18:44:55 N	76:26:26 E	120
45	MAHARASHTRA	HINGANGHAT	21:30:00 N	78:45:30 E	60
46	MAHARASHTRA	KANKAULI	16:15:56 N	73:42:54 E	60
47	MAHARASHTRA	NAGPUR	21:10:01 N	79:03:10 E	120
48	MAHARASHTRA	PUNE	18:21:55 N	73:45:16 E	120
49	MAHARASHTRA	YAVATMAL	20:15:30 N	78:15:00 E	75
50	MANIPUR	CHURACHANDPUR	24°20'23"	93°42'20"	120
51	MEGHALAYA	JOWAI	25°26'00"	92°12'00"	75

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Sr. No.	State	Tx. Location	Latitude	Longitude	Suggestive keep out distance from IMT (in Kms.)
52	MEGHALAYA	SHILLONG	25°32'59"	91°54'06"	120
53	MIZORAM	LUNGLEI	22°57'12"	92°45'39"	120
54	NAGALAND	MOKOKCHUNG	26°19'06"	94°36'40"	120
55	ODISHA	BALASORE	21°30'57"	86°54'12.4"	120
56	ODISHA	CUTTACK	20N2908.300	085E5108.200	120
57	PUNJAB	AMRITSAR	31 34 3075 N	74 45 8664E	150
58	PUNJAB	JALANDHAR	31N1718.800	075E3319.500	150
59	RAJASTHAN	ALWAR	27.33N	76.37E	75
60	RAJASTHAN	ANUPGARH	N29°11.7753	E73°12.3534	60
61	RAJASTHAN	BARMER	N 25 26 6269	E 71 03 5234	120
62	RAJASTHAN	BUNDI	25 27 09	75 38 05	120
63	RAJASTHAN	JAIPUR	26.56.58	75.49.30	120
64	SIKKIM	GANGTOK	27°20'13"	88°37'16"	120
65	TAMILNADU	CHENNAI-1	13N0400.400	080E1651.000	120
66	TAMILNADU	KODAIKANAL	10°13'57"	77°29'40"	120
67	TAMILNADU	RAMESHWARAM	9°17'33.47"	79°18'32.64"	150
68	TAMILNADU	TIRUCHENDUR	8° 30' 35.94"	78° 6' 6.64"	60
69	TRIPURA	AGARTALA	23°53'00"	91°22'09"	120
70	TRIPURA	AMARPUR	23°31'21"	91°39'28"	50
71	TRIPURA	AMBASA {AMBASSA}	23°55'16"	91°51'50"	50
72	UTTAR PRADESH	AGRA	27 07 55 (N)	78 03 04 (E)	120
73	UTTAR PRADESH	ALLAHABAD	25.47 N	81.9 E	120
74	UTTAR PRADESH	BAREILLY	28 ° 18.4930 'N	79 ° 24.7017 'E	120
75	UTTAR PRADESH	KANPUR	26° 31' 25.18" N	80° 26' 29.93" E	120
76	UTTAR PRADESH	LUCKNOW	26N5224.600	080E5156.700	120
77	UTTAR PRADESH	VARANASI	25°19'48"	82°58'48"	120
78	UTTARAKHAND	MUSSOORIE	30:27:30 N	78:05:59 E	120
79	WEST BENGAL	ASANSOL	23°41'16"	86°51'51.2"	120
80	WEST BENGAL	CONTAI	21°46'74"	87°45'17"	50
81	WEST BENGAL	KRISHNANAGAR	22°53"	88°09"	120
82	WEST BENGAL	KURSEONG	26°52'53"	88°16'37"	120
83	WEST BENGAL	MALDAH	24°00'12.6"	88°08'13"	60