

Government of India
Ministry of Communications & IT
Department of Telecommunication
Wireless Planning & Co-ordination (WPC) Wing

Sanchar Bhavan,
20, Ashoka Road,
New Delhi-110 001

No. P-11014/34/2009-PP (I)

Date: 22nd March, 2012

ORDER

Subject: Royalty charges for Assignments of Frequencies to 'Captive Users' (users being charged on formula basis) including all Government Users, involving **Single Channel** Operations for Fixed/ Land/ Land Mobile Stations/ terrestrial Broadcasting.

In pursuance of Power conferred by section 4 of the Indian Telegraph Act, 1885(13 of 1885) and in supersession of this Ministry's Orders No. R-11014/26/2002-LR dated 06.05.2003 and No. R-11014/4/87-LR dated 09.12.1987, the Central Government has decided the following Royalty charges for Assignments of Frequencies to 'Captive Users' (users being charged on formula basis) including all Government Users, involving **Single Channel** Operations for Fixed/ Land/ Land Mobile Stations/ Broadcasting:-

2. *Annual Royalty per Carrier (in Rs.) = M x W*; and the following rules apply:

- i. The Basic Royalty (M) given below is for one carrier frequency in a Basic Link (simplex) of 2 Fixed/ Land/ Land Mobile stations (1 station for terrestrial Broadcasting).
- ii. The Minimum Channel bandwidth for charging purpose is 12.5 kHz.
- iii. Duplex circuits and Semi-duplex circuits shall be charged at twice the rate of simplex (single central frequency) circuits.
- iv. For multi-frequency circuits, even if operating in simplex mode, the Basic Royalty shall be charged for each frequency separately.
- v. For each additional station beyond the Basic Link (i.e. 2 stations), operating on the same carrier frequency, additional royalty will be charged @ 25% of that payable for the Basic Link of that frequency.
- vi. For the purpose of charging Royalty, the bandwidth factor W shall be computed in terms of a Unit Channel Width of 12.5 KHz (equivalent voice channel):

$$W = \frac{\text{Actual Channel Bandwidth in kHz}}{12.5}, \text{ rounded to next higher integer.}$$

- vii. For all carrier frequencies, the chargeable bandwidth shall include the Guard Bands required to be provided as per ITU.
- viii. The following Table-A is applicable only for Single Channel Bandwidths up to 375 KHz, inclusive of guard-band.

Table A-for the 'M' Factor

Distance Cat.	"Maximum Distance (KM) Over Which the F/L/LM Network would operate"	Royalty (in Rs.) for 24-hour operation of the Basic Link (M) per Carrier	Royalty (in Rs.) for 12-hour operation of the Basic Link, adjusted for inflation.	Per Carrier Royalty for each additional station beyond the Basic Pair (Rs.) working in the same frequency
		<i>M</i>	<i>m1</i>	<i>m2</i>
I	<= 2	1500	N/A	25%
II	<= 5	3000	N/A	25%
III	> 5 <= 25	6000	N/A	25%
IV	> 25 <= 60	12000	N/A	25%
V	> 60 <= 120	22500	N/A	25%
VI	> 120 <= 500	37500	25000	25%
VII	> 500	50000	33330	25%

ix. In addition to above, the explanatory "Notes" on the applicability of royalty charges, are as following:

- A *simplex* operation is a method in which transmission is made possible alternately in each direction of a communication channel, e.g. by manual control.
- A *duplex* operation is a method in which transmission is possible simultaneously in both directions of a telecommunication channel.
- A *semi-duplex* operation is a method which is simplex operation at one end of the circuit and duplex operation at the other.
- To determine the "Maximum Distance" slab applicable to a case, the 'maximum power rating/ assigned' of the transmission equipment be considered, and expressly recorded in the assignment instrument Decision Letter, Agreement-in-Principle, or Wireless Operating License (DL/ AIP/ WOL).
- The *duration* of a radio frequency assignment will normally be one or two years. If an applicant desires, and frequencies are available, the duration of assignment may be fixed as three or four or five years.
- Before issuing any DL/ AIP/ WOL, full amounts of Royalty shall be submitted by the applicant in advance for the entire duration of the DL/ AIP/ WOL.
- For all assignments of frequencies, all applicants or users shall pay the applicable Royalty, License Fee, etc. **at the rates and terms in force from time to time, all previously paid amounts being adjusted on pro-rata basis.**
- Frequencies will normally be assigned, and hence charged, on 24-hour basis, unless indicated otherwise.

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Royalty Charges for Single channel

- x. The most highly demanded VHF/UHF bands of 146-174 MHz and 338-470 MHz the rates of Annual Royalty given above be increased by 15% and 10% *respectively* in the Municipal/ state areas of Mumbai, Delhi, Tamil Nadu, Karnataka and Andhra Pradesh. The enhanced charges shall become applicable to any wireless circuit whose even one station falls within these Service Areas.
3. For Charging of "Licence fee and other fees, Surcharge/ late fee and Charging Methodologies for Royalty / licence fees, Order No. No. P-11014/34/2009-PP (IV) dated 22nd March, 2012 shall be applicable
4. This issues with the concurrence of the Wireless Finance Division, vide this Dy. No.482/Sr.DDG(WPF), dated 19/3/12.
5. This Order shall come into force from 1st April 2012.


(Viresh Goel)

Deputy Wireless Advisor
to the Government of India

Copy to:

1. All concerned
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3. Wireless Monitoring Organisation
4. Director, IT DoT for uploading on DoT website
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No. P-11014/34/2009-PP (II)

Date: 22nd March, 2012

ORDER

Subject: Royalty charges for Assignments of Frequencies to 'Captive Users' (users being charged on formula basis) including all Government Users, involving **Multi Channel Operations for Fixed/ Land/ Land Mobile Stations.**

In pursuance of Power conferred by section 4 of the Indian Telegraph Act, 1885(13 of 1885) and in supersession of this Ministry's Orders No. R-11014/26/2002-LR dated 06.05.2003, No. R-11014/26/2002-LR dated 01.04.2003, No. R-11014/4/87-LR (pt.) dated 20.07.1995 and No. R-11014/4/87-LR dated 09.12.1987, the Central Government has decided the following Royalty charges for Assignments of Frequencies to 'Captive Users' (users being charged on formula basis) including all Government Users, involving **Multi Channel Operations for Fixed/ Land/ Land Mobile Stations:-**

2. *Annual Royalty* is calculated as per the following formula and rules:

$$\text{Annual Royalty (in Rupees)} = \sum_{i=1}^n M_i \times W, \text{ where } n = \text{no. of carriers.}$$

- i. The Basic Royalty (M) given below is for *one* carrier frequency in a *Basic Link* (simplex) of 2 Fixed/ Land/ Land Mobile stations (1 station for broadcasting).
- ii. Duplex circuits (with two central frequencies) and Semi-duplex circuits shall be charged at twice the rate of simplex (single central frequency) circuits.
- iii. For multi-frequency circuits, even if operating in simplex mode, the Basic Royalty shall be charged for each frequency separately.
- iv. For the purpose of charging Royalty under Table-B, the *Bandwidth Factor W* shall be as per *Table-C*, given below.
- v. For all carrier frequencies, the chargeable bandwidth shall include the *Guard Bands* required to be provided as per *ITUs*.
- vi. The rates of Royalty apply to the specified *polarization(s)* of the assigned frequencies.
- vii. In addition to above, the explanatory "Notes" on the applicability of royalty charges, are as following:
 - To determine the "Maximum Distance" slab applicable to a case, the 'maximum power rating/ assigned' of the transmission equipment be considered, and expressly recorded in the assignment instrument Decision Letter, Agreement-in-Principle, or Wireless Operating License (DL/ AIP/ WOL).

Royalty Charges for Multi-channel

- The *duration* of a radio frequency assignment will normally be one or two years. If an applicant desires, and frequencies are available, the duration of assignment may be fixed as three or four or five years.
- Before issuing any DL/ AIP/ WOL, full amounts of Royalty shall be submitted by the applicant in advance for the entire duration of the DL/ AIP/ WOL.
- For all assignments of frequencies, all applicants or users shall pay the applicable Royalty, License Fee, etc. at the rates and terms in force from time to time, all previously paid amounts being adjusted on pro-rata basis.

Table-B For The 'M' Factor

Distance Cat.	"Maximum Distance (KM) Over Which the F/L/LM Network would operate"	Royalty Charges (in Rs.) for of the Basic Link.
		<i>M</i>
I	<= 2	1500
II	<= 5	3000
III	> 5 <= 25	6000
IV	> 25 <= 60	12000
V	> 60 <= 120	22500
VI	> 120 <= 500	37500
VII	> 500	50000

Table-C for The 'W' Factor

Slabs of Adjacent Channel Separation (BW), in MHz	Values of W
Up to and including 2	30
More than 2 but <= 3.5	40
More than 3.5 but <= 7	60
More than 7 but <= 14	90
More than 14 but <= 28	120
> 28	$120+30 \times (\text{Excess bandwidth to } 28 \text{ MHz} / 7)^{\circ}$

@: That is, in steps of 7 MHz or part thereof.

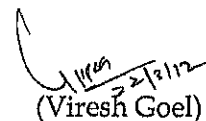
viii. Any "single channel service" that uses a channel bandwidth in excess of 375 KHz shall be covered by Charging Table-C above, where the Bandwidth Factor "W" is used from the lowest value of 30 onwards.

3. For Charging of "Licence fee and other fees, Surcharge/ late fee and Charging Methodologies for Royalty / licence fees, Order No. No. P-11014/34/2009-PP (IV) dated 22nd March, 2012 shall be applicable

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Royalty Charges for Multi-channel

4. This issues with the concurrence of the Wireless Finance Division, vide this Dy. No.482/Sr.DDG(WPF), dated 19/3/12.
5. This Order shall come into force from 1st April 2012.


(Viresh Goel)

Deputy Wireless Advisor
to the Government of India

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No. P-11014/34/2009-PP (III)

Date: 22nd March, 2012

ORDER

Subject: Royalty charges for Assignments of Frequencies to 'Captive Users' (users being charged on formula basis) including all Government Users, involving Satellite based systems.

In pursuance of Power conferred by section 4 of the Indian Telegraph Act, 1885(13 of 1885) and in supersession of this Ministry's Orders order no. J-19011/1/98-SAT, dated 14/09/1998, and No. R-11014/26/2002-LR, Dated 06/05/2003, the Central Government has decided the following Royalty charges for Assignments of Frequencies to 'Captive Users' (users being charged on formula basis) including all Government Users, involving all Satellite based systems (i. Broadcasting: Radio, Television, DSNG etc; and ii. Other networks; ILD, INMARSAT, NLD, Teleport, VSAT etc):-

2. *The Standard Annual Royalty Factor shall be Rs.35000 per Frequency.* It shall be applied to the total licensed bandwidth of each frequency of any type of satellite-based Radio-communication network (including ILD, NLD, Teleport, DSNG, DTH, VSAT, INMARSAT and Satellite Radio), together with the relevant Bandwidth Factor (B_s) given in Table D below, to arrive at the amount of Annual Royalty per Frequency, R, payable for an Uplink or a Downlink as per the following formula:

$$\text{Royalty, R (in Rs.)} = 35000 \times B_s$$

Table D: Bandwidth Factor (B_s) for Satellite Communications

Bandwidth Assigned to a Frequency (W.KHz)	Bandwidth Factor, B _s , for an uplink		Bandwidth Factor B _s for a downlink	
	Broadcast	Others	Broadcast	Others
Up to and including 100 KHz	0.25	0.20	NIL	0.20
More than 100 KHz and Up to and including 250 KHz	0.60	0.50	NIL	0.50
More than 250 KHz and upto 500 kHz	1.25 @	1.00 @	NIL	1.00@
For every 500 kHz or part thereof	1.25 @	1.00 @	NIL	1.00@

[@ for every 500 kHz or part thereof]

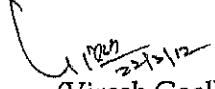
3. In addition to above, the explanatory "Notes" on the applicability of royalty charges, are as follows:

- i. As a principle, charges for radio spectrum be levied for both uplinks and downlinks, as the nature of the resource remains the same. Charging will however only be in respect of the frequencies transmitted from or into Indian Territory.

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Royalty Charges, Satellite based systems

- ii. The DSNG, SNG etc., be levied royalty charges for radio frequencies used on both Uplinks and Downlinks, because these are dedicated links that cannot be equated with broadcasting service.
 - iii. For DSNG's, in case the same frequency carrier is used by the user (assignee of RF) from different OB vans belonging to him, additional royalty @ 25% of the basic royalty be charged from him, however if the additional OB vans are located within the same premises additional royalty @ 25% of the basic royalty will not be charged.
 - iv. For Temporary Unlinking, a minimum royalty equivalent to that for one month be charged.
4. For Charging of "Licence fee and other fees, Surcharge/ late fee and Charging Methodologies for Royalty / licence fees, Order No. No. P-11014/34/2009-PP (IV) dated 22nd March, 2012 shall be applicable.
5. This issues with the concurrence of the Wireless Finance Division, vide thir Dy. No.482/Sr.DDG(WPF), dated 19/3/12.
6. This Order shall come into force from 1st April 2012.


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Sanchar Bhavan,
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No. P-11014/34/2009-PP (IV)

Date: 22nd March, 2012

ORDER

Subject: Licence fee and other fees, Surcharge/ late fee and Charging Methodologies for Royalty / licence fees for 'Captive Users' (users being charged on formula basis) including all Government Users.

In pursuance of Power conferred by section 4 of the Indian Telegraph Act, 1885(13 of 1885) and in supersession of this Ministry's Orders No. R-11014/28/2004-LR dated 23.03.2005, and No. R-11014/4/87-LR dated 20.07.1995 the Central Government has decided the following rates of Licensee fees, and other fees, Surcharge/ late fee and Charging Methodologies for Royalty / licence fees for different types of Assignments of Frequencies to 'Captive Users' (users being charged on formula basis) including all Government Users. :-

2. License Fees

Sl. No.	Type of License	Annual License Fee, Rs.	Remarks
i.	Fixed/ Land Station	500	Per station
ii.	Land Mobile Station	250	Per station
iii.	Captive paging (Hub)	2000	Per Hub
iv.	Maritime Mobile Station (fishing trawlers)	500	Per trawler
v.	Maritime Mobile Station (Ships)	5000	Per ship
vi.	Aero-mobile Station	5000	Per aircraft
vii.	USR (short range)	250	Per station
viii.	Fixed station of Microwave links/ Radar Station/NLD station/BTS	1000	Per station
ix.	CMRTS fixed station	500	Per fixed station
x.	CMRTS Mobile Station	250	Per mobile station; vehicle mounted or hand-held
xi.	Fixed station in Satellite Network, e.g., DTH/ Teleport/ DSNG/ NLD/ ILD/ DCP/ IP-II	1000	Per Fixed Station
xii.	Captive V-SAT	500	Per Hub or Terminal
xiii.	INMARSAT	250	For Mobile terminal
xiv.	INMARSAT	500	For Fixed terminal

NOTE: License Fee for standby sets shall also be charged at the same rates.

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3. Fees for issuing duplicate copies and License Modification

Sl. No.	Type	Fee in Rupees
i.	Duplicate copy of License (Without Schedule)	500
ii.	Duplicate copy of Schedule(s) of a License	500
iii.	Duplicate copy of Renewal Certificate	250
iv.	License Modification	1000

4. Charging Methodologies for Royalty / licence fees:

- i. No radio frequency be assigned, reserved, or blocked through a Decision Letter, Agreement-in-Principle, or any other instrument of like nature unless the applicant pays, in advance, all applicable license fees and royalty charges for the full duration of authorization/ assignment of the radio frequency, or minimum of one year, whichever is less.
- ii. Upon successful processing of an application requesting for an assignment of radio frequency (RF), the applicant be informed about the License Fees and Royalty required to be deposited by him. These shall be calculated for the full period of the requested assignment. Where the period is greater than one year, the wireless user/ applicant has to pay the license fee and royalty in annual installments in advance every year.
- iii. Immediately thereafter, but in no case later than thirty (30) days from the date of issue of the said letter, the applicant shall pay the charges for issue of License/ DL/ AIP, if otherwise permissible. If, on the other hand, the payment is not received within this period of 30 days, the application will be treated as *cancelled* and the frequencies shall be freed for being assigned to others. If the same applicant wants to subsequently pursue the application, he shall be required to submit a *fresh* application.
- iv. The amounts due for different periods may be determined as follows.

License Period	License Fee payable	Royalty payable from the date of DL/ AIP/ WOL, as the case may be	Method of payment
One month or less	At specified flat rate.	Annual royalty divided by 12.	Full license fee & royalty to be paid in advance at the time of issue of DL/ AIP/ license.
More than one month but up to one year	At specified flat rate.	On pro-rata basis. However, part of a month shall be taken as one month.	-- do --
More than one year	At specified flat rate.	On pro-rata basis. However, part of a month shall be taken as one month.	Pay the L/fee plus Royalty for the entire duration in advance at issue of DL/ AIP/ license, OR pay it in annual advance instalments.

- v. In case the licensee defaults on one of the annual installment payments, all the remaining installments shall become immediately payable.

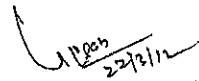
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- vi. A Licensee shall be responsible to apply for the renewal of his/ her existing frequency authorization or wireless operating license (WOL), within a period of thirty (30) days *before* the expiry of the said WOL/AIP/DL.
- vii. **Surrender of a License/ AIP/ DL:** Spectrum charges are payable minimum for one month and thus on surrender of licenses the Royalty charges in excess of one month can be adjusted. However, any monetary refund can only be made if the payments have been received for more than one year and surrender results the Royalty charges in excess of 1 year. The word "surrender" in this paragraph shall mean surrender of a complete License/ AIP/ DL with all its frequency assignments.

5. **Surcharge/Late Fee for Late Renewal of Wireless Station Licenses:** Surcharge/ Late fee for delayed renewal of various licenses shall be levied on the total amount due (i.e. license fee *plus* royalty charges) @ 2% per month or part thereof, subject to the minimum of Rs. 250/- per license. In case the delay is more than one year the said late fee shall be applied in an *annually compounded* manner.

6. This issues with the concurrence of the Wireless Finance Division, vide this Dy. No.482/Sr.DDG(WPF), dated 19/3/12.

7. This Order shall come into force from 1st April 2012.


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