No	Questions	Comments
1	What is the level of demand of the spectrum in the traditional microwave backhaul bands [viz. 6 GHz (lower), 7 GHz, 13 GHz, 15 GHz, 18 GHz, and 21 GHz bands] for radio backhaul purposes?	
	Kindly provide a detailed response with justifications.	NA
2	For which commercial telecommunication services should the spectrum in traditional microwave backhaul bands be assigned for radio backhaul purposes? Kindly provide a detailed response with justifications.	NA
3	Which of the following methods should be used for the assignment of the spectrum in traditional microwave backhaul bands for radio backhaul purposes for various commercial telecommunication services: (a) Block-basis in LSA, (b) Point-to-point link-basis, or (c) Any other?	
	Please provide a detailed response with justifications in respect of the relevant commercial telecommunication services.	NA

No	Questions	Comments
4	In case it is decided to use different methods (block-based, linkbased, or any other) for the assignment of the spectrum in traditional microwave backhaul bands for radio backhaul purposes for different types of commercial telecommunication services, what quantum of spectrum, and in which of 6 GHz (lower), 7 GHz, 13 GHz, 15 GHz, 18 GHz, and 21 GHz bands should be earmarked for point to-point link-based assignments? Kindly provide a detailed response with justifications.	The lower 6 GHz band (5925–6425 MHz), the upper 6 GHz band (6425–7125 MHz) or parts thereof, plus the adjacent 7 GHz band (7125–7250 MHz) should not be assigned for traditional microwave radio backhaul purposes.
5	What should be the terms and conditions for the assignment of spectrum in traditional microwave backhaul bands for radio backhaul purposes of various commercial telecommunication services, such as - (a) Carrier size; (b) Carrier aggregation; (c) Validity period of the assignment; (d) Renewal mechanism; (e) Roll-out obligations; and (f) Surrender of spectrum etc.? Kindly provide a detailed response with justifications. along with the international scenario on the matter.	NA

No	Questions	Comments
6	Is there a need to prescribe ceilings on the number of carriers that can be assigned to a commercial telecommunication service provider in each frequency band [6 GHz (lower)/ 7 GHz/ 13 GHz/ 15 GHz/ 18 GHz/ 21 GHz] or in a group of frequency bands for radio backhaul purposes? Kindly provide a detailed response with justifications.	The 6 GHz (5925–7125 MHz) or 7 GHz (7125–7250 MHz) frequency ranges for traditional microwave radio backhaul purposes should not be assigned These bands represent a critical opportunity to enable high-capacity wireless connectivity through next-generation licence-exempt (WAS/RLAN) and licensed mobile broadband (IMT) services.
7	In case it is decided to prescribe ceilings on the number of carriers that can be assigned to a commercial telecommunication service provider (TSP) for each frequency band or each group of frequency bands, - (a) Should there be any criterion for the ceiling on the number of carriers that may be assigned to a TSP? If yes, what should be the criteria? (b) In case of group of frequency bands, how should the bands be grouped? (c) What should be the respective ceilings for each frequency band, or each group of frequency band(s)? (d) Should there be any provision for assignment of spectrum above the ceiling limit on a case-by-case basis? If yes, what criterion should be prescribed, based on which, additional spectrum above the ceiling limit may be assigned to a telecom service provider? Kindly provide a detailed response with justifications.	NA
8	In the new policy regime for the assignment of spectrum, whether there is a need to grant an option to telecom service providers already holding carriers in traditional microwave backhaul bands to retain the existing carriers with them? Kindly provide a detailed response with justifications.	NA

No	Questions	Comments
9		It is recommended that any national review of microwave backhaul usage in the broader 7125–8400 MHz band be postponed until after WRC-27. This approach will ensure that any changes to backhaul allocations are informed by final international regulatory decisions, enable harmonised spectrum use, and avoid premature reassignments that could limit flexibility for both IMT and UWB coexistence. A post-WRC-27 review would be best positioned to balance emerging mobile broadband needs with the preservation of innovation-enabling technologies.
10	In case it is decided to review the usage of 7 GHz and 15 GHz bands at this stage itself, what should be the policy framework for the assignment of the spectrum in 7 GHz and 15 GHz microwave backhaul bands to take care the possible outcomes of Al 1.7 of the WRC-27? Kindly provide a detailed response with justifications.	Please see response to questions 4, 6, and 9.
11	Whether there is a need to earmark certain quantum of spectrum in traditional microwave backhaul bands for the last-mile connectivity (Fixed Wireless Access) to the customer equipment of commercial telecommunication services? Please provide a detailed response with justifications.	NA

No	Questions	Comments
12	In case it is decided to earmark certain quantum of spectrum in traditional microwave backhaul bands for the last-mile connectivity (Fixed Wireless Access) to the customer equipment of commercial telecommunication services, - (a) What quantum of spectrum, and in which of 6 GHz (lower), 7 GHz, 13 GHz, 15 GHz, 18 GHz, and 21 GHz bands should be earmarked for such purposes? (b) What should be the eligibility conditions to obtain the spectrum in traditional microwave backhaul bands for such purposes? (c) What should be the terms and conditions for the assignment of spectrum in traditional microwave backhaul bands for such purposes through auction such as- (i) Block size; (ii) Minimum quantity for bidding; (iii) Spectrum cap; (iv) Validity period of the assignment; (v) Roll-out obligations; (vi) Surrender of spectrum etc.? (d) Whether flexible use i.e., both backhaul connectivity, and last mile connectivity (fixed wireless access) to the customer equipment should be permitted in the frequency ranges earmarked for such purposes? If yes, should the terms and conditions of the auction of spectrum be the same as those applicable for the "access spectrum"? Kindly provide a detailed response with justification and international practice.	Please see response to questions 4, 6, and 9.

No	Questions	Comments
13	Should a certain quantum of the spectrum in traditional microwavebackhaul bands be earmarked for fulfilling point-to-pointconnectivity requirements of captive (noncommercial/ non-TSP)users? If yes - (a) What quantum of spectrum, and in which of 6 GHz (lower), 7GHz, 13 GHz, 15 GHz, 18 GHz, and 21 GHz bands should be earmarked for such purposes? (b) What should be the terms and conditions for the assignment ofspectrum for such purposes, such as- (i) Carrier size; (ii) Carrier aggregation; (iii) Ceiling on the number of carriers; (iv) Validity period of the assignment; (v) Renewal mechanism; (vi) Criteria for the assignment of additional spectrum abovethe ceiling limit; (vii) Roll out obligations; and (viii) Surrender of the spectrum, etc.? Kindly provide a detailed response with justifications.	The lower 6 GHz band (5925–6425 MHz), the upper 6 GHz band (6425–7125 MHz) or parts thereof, plus the adjacent 7 GHz band (7125–7250 MHz) should not be assigned for traditional microwave radio backhaul purposes. Please see response to questions 4, 6, and 9.
14	In case your response to Q13 is 'no', in what manner should the point-to-point connectivity requirements of captive (noncommercial/ non-TSP) users be fulfilled? Kindly provide a detailed response with justifications.	The lower 6 GHz band (5925–6425 MHz), the upper 6 GHz band (6425–7125 MHz) or parts thereof, plus the adjacent 7 GHz band (7125–7250 MHz) should not be assigned for traditional microwave radio backhaul purposes. Please see response to questions 4, 6, and 9.
15	In case it is decided to assign the spectrum in traditional microwave backhaul bands on a point-to-point link basis to cater to point-to-point connectivity requirements of commercial telecommunication service providers as well as captive (non-commercial/ Non-TSP) users, whether there is a need to prescribe minimum link lengths (path lengths) in these bands? If yes, what should be the minimum link length for each of the traditional microwave backhaul bands? Kindly provide a detailed response with justifications.	NA

No	Questions	Comments
16	Considering that the Government has decided to delicense the 6 GHz (lower) band (5.925-6.425 GHz) for low power applications, whether there is any need to prescribe certain measures to provide necessary protection to incumbent users such as Fixed Microwave (backhaul) Services, Fixed Satellite Service (FSS) etc. operating in the 6 GHz (lower) band? If yes, which specific measures should be prescribed for this purpose? Kindly provide a detailed response with justifications.	The government's decision to licence-exempt 5925–6425 MHz for low-power applications such as Wi-Fi 6E will deliver significant socio-economic and digital inclusion benefits. However, recognising the continued operation of incumbent services, particularly Fixed Services (FS) and Fixed Satellite Services (FSS), certain coexistence measures are appropriate to ensure a harmonious spectrum environment. Extensive studies in within CEPT as reported in ECC Report 302 and ECC Report 316 demonstrate that low-power indoor (LPI) and very low power (VLP) portable WAS/RLAN (Wi-Fi) deployments can coexist with incumbent FS and FSS systems without causing harmful interference when basic coexistence measures are observed. These findings are likely directly applicable to India, where similar incumbent usage conditions apply.

No	Questions	Comments
17	Any other suggestions relevant to the assignment of spectrum in 6 GHz (lower), 7 GHz, 13 GHz, 15 GHz, 18 GHz, and 21 GHz bands may kindly be provided with detailed justifications.	Please see response to questions 4, 6, 9, and 16.
18	What is the level of demand of the spectrum in the E-band (71-76 GHz, and 81-86 GHz) for each of the service/ usage viz. "Backhaul", "Access" and "Integrated Access & Backhaul (IAB)"? Kindly provide a detailed response in respect of each service/ usage with justification including availability of technical standards and ecosystem	NA

No	Questions	Comments
19	What is the level of demand of the spectrum in the V-band (57-64/ 66 GHz) for each of the service/ usage viz. Backhaul, Access and IAB? Kindly provide a detailed response in respect of each service/ usage with justification including availability of technical standards and eco-system.	We strongly recommend for the establishment of a licence-exempt regulatory framework within the 57–71 GHz spectrum band. We do not support band fragmentation through different licensing mechanisms of the Mobile service, therefore for 57-64/66 GHz, we believe that a licence-exempt approach is appropriate. New services and applications require larger bandwidths to support the consumer demand for data-intensive applications. In addition, the splitting of frequency bands increases the costs and thus causes delay in manufacturing and bringing new devices to market because of regulatory uncertainty. The European Conference of Postal and Telecommunications Administrations (CEPT) has established a harmonised regulatory framework for licence-exempt use of the 57–71 GHz frequency band through ERC Recommendation 70-03. This framework facilitates the deployment of Short Range Devices (SRDs), particularly Wideband Data Transmission Systems (WDTS), across CEPT member countries. Key Provisions of ERC Recommendation 70-03 for the 57–71 GHz Band: 1) Licence-Exempt Operation: Devices operating within this band can do so without an individual licence, provided they adhere to specified technical parameters. 2) Power Limits: The recommendation stipulates a maximum Effective Isotropic Radiated Power (EIRP) of 40 dBm and an EIRP density limit
20	For which commercial telecommunication services should the spectrum in E-band and V-band be assigned for radio backhaul purposes? Responses with detailed justifications may kindly be provided for E-band and V-band separately.	Please see response to question 19.

No	Questions	Comments
21	Which of the following methods should be used for the assignment of the spectrum in E-band and V-band for radio backhaul purposes for various commercial telecommunication services: (a) Block-basis in LSA; (b) Point-to-point link-basis; or (c) Any other? Responses with detailed justifications may kindly be provided for E-band and V-band separately in respect of the relevant commercial telecommunication services.	Please see response to question 19.
22	In case it is decided to use different methods (block-based, linkbased, or any other) for the assignment of the spectrum in E-band and/ or V-band for radio backhaul purposes for different types of commercial telecommunication services, how much spectrum in Eband and V-band should be earmarked for the point-to-point linkbased assignment for radio backhaul purposes for commercial telecommunication services? Responses with justifications may kindly be provided for E-band and V-band separately.	Please see response to question 19.
23	What should be the terms and conditions for the assignment of the spectrum in the E-band for radio backhaul purposes of commercial telecom services such as- (i) Band plan; (ii) Carrier size; (iii) Carrier aggregation; (iv) Validity period of the assignment; (v) Renewal mechanism; (vi) Surrender of the spectrum; (vii) Ceiling on the number of carriers (spectrum cap); (viii) Criteria for the assignment of additional spectrum above the ceiling limit; and (ix) Roll-out obligations etc.? Kindly provide a detailed response with justifications.	NA

No	Questions	Comments
24	What frequency range (57-64 GHz, or 57-66 GHz) in the V-band should be adopted for radio backhaul purposes? In case you are of the opinion that the 57-66 GHz range should be adopted for radio backhaul purposes, considering that the 66-71 GHz range is already identified for IMT, whether there is a need for provisioning a guard band between the 57-66 GHz range (for the backhaul purposes) and the 66-71 GHz range (for IMT)? If yes, what should be the guard band? Kindly provide a detailed response with justifications.	Please see response to question 19.
25	What should be the terms and conditions for the assignment of the spectrum in the V-band for radio backhaul purposes of commercial telecom services including the following aspects: (i) Band plan; (ii) Carrier size; (iii) Carrier aggregation; (iv) Validity period of the assignment; (v) Renewal mechanism; (vi) Surrender of the spectrum; (vii) Ceiling on the number of carriers (spectrum cap); (viii) Criteria for the assignment of additional spectrum above the ceiling limit; and (ix) Roll-out obligations etc.? Kindly provide a detailed response with justifications	Please see response to question 19.

No	Questions	Comments
26	In case it is decided to earmark a few carriers in E-band and/ or Vband for services/ usages as "Access" and/ or "Integrated Access & Backhaul (IAB)", - (a) What quantum of spectrum in E-band and V-band should be earmarked for such services/ usages? (b) What should be the eligibility conditions to obtain the spectrum in E-band and V-band for such services/ usages? (c) What should be the terms and conditions for the assignment of spectrum in E-band and V-band through auction such as- (i) Block size; (ii) Minimum quantity for bidding; (iii) Spectrum cap; (iv) Validity period of the assignment; (v) Roll-out obligations; and (vi) Surrender of spectrum etc.? (d) Should flexible use [i.e., radio backhaul, and last mile connectivity (fixed wireless access) to the customer equipment] be permitted in frequency ranges earmarked in E-band and/ or V-band for such services/ usages? If yes, should the terms and conditions of the auction of spectrum be the same as those applicable for "access spectrum"? Responses with detailed justifications and international practices may kindly be provided for E-band and V-band separately.	Please see response to question 19.
27	Whether there is a need for earmarking certain quantum of spectrum in E-band and V-band for point-to-point connectivity requirements of captive (non-commercial/ non-TSP) users? If yes,- (a) What quantum of spectrum in E-band and V-band should be earmarked for such purposes? (b) What should be the terms and conditions for the assignment of spectrum such as: (i) Carrier size; (ii) Carrier aggregation; (iii) Ceiling on the number of carriers; (iv) Validity period of the assignment; (v) Renewal mechanism; (vi) Criteria for the assignment of additional spectrum above the ceiling limit; (vii) Roll out obligations; and (viii) Surrender of the spectrum etc.? Responses with detailed justifications may kindly be provided for E band and V-band separately.	No. Please see response to question 19.

No	Questions	Comments
28	In case your response to Q27 is 'no', in what manner should the point-to-point connectivity requirements of captive (noncommercial/ non-TSP) users be fulfilled? Kindly provide a detailed response with justifications.	Please see response to question 19.
29	Whether it is feasible to allow low power indoor consumer device-to-consumer device usages on a license-exempt basis in the V-band in parallel to the use of the spectrum by telecom service providers for the establishment of terrestrial networks in a part or full V-band? Kindly provide a detailed response with justification and international scenario.	Please see response to question 19. We are supportive in making the 57-64 GHz frequency range available under a licence-exempt regulatory regime without the application of light-licensing. We do not believe that other licensed services should have access to 57-64 GHz but if there is a desire to licence then this should be in the 64-71 GHz band. V-band is already allowed on license-exempt basis world wide except for a few countries. If V-band continues to be restricted and licensed, innovative new technologies and products would be unable to see the light of the day and consumers in the Indian market would be deprived of the latest and innovative solutions. Additionally, the de-licensed band would make possible to replace wired cables with new technologies. Some examples are cited: a) Contactless ports: USB3, Ethernet, DisplayPort https://www.molex.com/en-us/news/molex-introduces-mx60-series-of-contactless-connectivity-solutions b)Radar/motion sensing: Google Soli, and in-vehicle children sensors, c) home security d) health care https://blog.research.google/2020/03/soli-radar-based-perception-and.html https://www.fcc.gov/document/fcc-permits-hot-car-sensors-save-children https://www.federalregister.gov/documents/2023/07/24/2023-15367/fcc-empowers-short-range-radars-in-the-60-ghz-band"""

No	Questions	Comments
30	In case it is decided to allow low power indoor consumer device-to-device usages on a license-exempt basis in the V-band (57-64/66 GHz), - (a) Should it be permitted in the entire V-band or only in a portion of the V-band? If it should be permitted only in a portion of the V-band, please specify the frequency range. (b) In case it is decided to permit low power indoor consumer device-to-device usages on a license-exempt basis in the entire V-band, whether the 57-64 GHz range, or the 57-66 GHz range should be considered for such usages? (c) What should be the carrier size/ channel bandwidth? (d) What should be the definition of indoor usages? (e) What technical parameters should be prescribed, including EIRP limits for low power indoor consumer device-to-device usages? Kindly provide a detailed response with justifications and international scenario.	
31	Whether there is a need for permitting "outdoor" usages of V-band on a license-exempt basis? Kindly provide a detailed response with justification and international scenario.	Yes. Kindly refer to the response to Question no 19.
32	If the response to the Q31 is in the affirmative, whether it is feasible to allow outdoor usages on a license-exempt basis in the V-band in parallel to the use of the spectrum by telecom service providers for the establishment of terrestrial networks in a part or full V-band? Kindly provide a detailed response with justification and international scenario.	Kindly refer to the response to Question no 19.

No	Questions	Comments
33	In case it is decided to allow outdoor usages on a license-exempt basis in the V-band (57-64/ 66 GHz), - (a) Should it be permitted in the entire V-band or only in a portion of the V-band? If it should be permitted only in a portion of the V-band, please specify the frequency range. (b) In case it is decided to permit outdoor usages on a licenseexempt basis in the entire V-band, whether the 57-64 GHz range, or the 57-66 GHz range should be considered for such. usages? (c) What should be the carrier size/ channel bandwidth? (d) What technical parameters should be prescribed, including EIRP limits for low power indoor consumer device-to-device usages? Kindly provide a detailed response with justifications and international scenario.	
34	justifications.	DoT has through its reference letter to TRAI L-14035/10/2022-BWA dated 12/08/2022 has acknowledged that the device/chip ecosystem for supporting various technologies for data transfer between consumer devices in the V band has developed and license exempt basis would serve greater public interest and realizing significant socioeconomic gains.
35	In case the 6 (lower)/7/13/15/18/21 GHz bands for radio backhaul of various commercial telecom services are assigned on a Point-to- Point (P2P) Link basis, should the spectrum charges be levied: i. As a percentage of Adjusted Gross Revenue (AGR), or ii. On a per carrier/link basis, or iii. Through any alternative mechanism (please specify)? Kindly provide a detailed justification for the approach considered most suitable, along with the suggested percentage of AGR or the applicable per link/per carrier charge.	Please see response to questions 4, 6, 9, and 16.

No	Questions	Comments
36	In case the 6 (lower)/7/13/15/18/21 GHz bands for radio backhaul of various commercial telecom services are assigned on a block basis for the entire Licensed Service Area (LSA), should the spectrum charges be levied: i. As a percentage of Adjusted Gross Revenue (AGR), or ii. On a per MHz or per carrier basis, or iii. Through any alternative mechanism (please specify)? Kindly provide a detailed justification for the approach considered most suitable, along with the suggested percentage of AGR or the applicable per carrier/ MHz charge.	Please see response to questions 4, 6, 9, and 16.
37	In case it is decided to assign some frequency spectrum in 6 (lower)/7/13/15/18/21 GHz spectrum bands for last mile connectivity (Fixed Wireless Access) of commercial telecom services through auction, then: i. Should the auction determined price of other bands by using spectral efficiency factor serve as a basis of valuation for the above bands? If yes, which spectrum bands be related, what efficiency factor or formula should be used and what is the basis for the same? Please justify your suggestions. ii. If response to question (i) above is no, what other methodology may be used. Please justify your suggestions.	Please see response to questions 4, 6, 9, and 16.

No	Questions	Comments
38	In case it is decided to assign some frequency spectrum in 6 (lower)/7/13/15/18/21 GHz spectrum bands for last mile connectivity (Fixed Wireless Access) of commercial telecom services through auction, then: i. Should the auction determined price of other countries in 6/7/13/15/18/21 GHz spectrum bands for last mile connectivity and/or IMT services serve as a basis of valuation of microwave bands for last mile connectivity? What methodology should be followed for using this auction determined price as a basis for valuation? Support your suggestions with justifications and country-wise auction data. ii. If the above approach is considered appropriate, should the international auction-determined prices be normalized to account for cross-country differences such as population, GDP, purchasing power parity (PPP), subscriber base, and other relevant factors? If so, should normalization be carried out by using the ratio of auction prices of spectrum bands within the same country to neutralize the impact of cross country differences? Alternatively, please suggest any other suitable normalization methodology that may be adopted in this context. iii. Apart from the approaches highlighted above which other valuation approaches may be adopted for the valuation of 6(lower)/7//13/15/18/21 GHz spectrum bands? Please provide detailed information.	Please see response to questions 4, 6, 9, and 16.
39	What valuation methodology should be followed if it is decided to assign frequency spectrum in traditional microwave backhaul bands for flexible use (i.e. both backhaul connectivity and last mile connectivity) of commercial telecom services through auction? Please provide detailed justification	NA
40	Should the spectrum charges for 6 (lower)/ 7/ 13/ 15/ 18/ 21 GHz bands for non-commercial/ captive backhaul use continue to be levied as per the M x C x W formula specified in the DoT's order No. P-11014/34/2009-PP dated 11.12.2023? Is there a need to revise this formula by inclusion of additional factors, modifying slab/factor values etc.? If yes, please specify which additional factors should be included and what should be the revised slab/factor values? Please provide detail of the same alongwith justification.	Please see response to questions 4, 6, 9, and 16. The lower 6 GHz should be for de-licensed usage only

No	Questions	Comments
41	If the answer to above question is no, whether an alternative charging mechanism should be adopted for levying spectrum charges for 6 (lower)/ 7/ 13/ 15/ 18/ 21 GHz bands for non-commercial/ captive backhaul use?	Please see response to questions 4, 6, 9, and 16.
	Please provide detailed justification.	
42	In case the E-band (71-76/ 81-86 GHz) is assigned for Radio backhaul purpose for various commercial telecommunication services and on a Point-to-Point (P2P) link basis, should the spectrum charges be levied: i. As a percentage of Adjusted Gross Revenue (AGR), or ii. On a per carrier/link basis, or iii. Through any alternative mechanism (please specify)?	NA
	Kindly provide a detailed justification for the approach considered most suitable, along with the suggested percentage of AGR or the applicable per carrier/link charge.	
43	In case the E-band (71-76/ 81-86 GHz) is assigned for Radio backhaul purpose for various commercial telecommunication services and on a block basis for the entire Licensed Service Area (LSA), should the spectrum charges be levied: i. As a percentage of Adjusted Gross Revenue (AGR), or ii. On a per MHz or per carrier basis, or iii. Through any alternative mechanism (please specify)?	NA
	Kindly provide a detailed justification for the approach considered most suitable, along with the suggested percentage of AGR or the applicable per MHz/per carrier charge.	
44	In case the V-band (57-64/66 GHz) is assigned for Radio backhaul purpose for various commercial telecommunication services and on a Point-to-Point (P2P) link basis, should the spectrum charges be levied: i. As a percentage of Adjusted Gross Revenue (AGR), or ii. On a per carrier/link basis, or iii. Through any alternative mechanism (please specify)?	NA
	Kindly provide a detailed justification for the approach considered most suitable, along with the suggested percentage of AGR or the applicable per carrier/ link charge.	

No	Questions	Comments
45	In case the V-band (57-64/66 GHz) is assigned for Radio backhaul purpose for various commercial telecommunication services and on a block basis for the entire Licensed Service Area (LSA), should the spectrum charges be levied: i. As a percentage of Adjusted Gross Revenue (AGR), or ii. On a per MHz or per carrier basis, or iii. Through any alternative mechanism (please specify)? Kindly provide a detailed justification for the approach considered most suitable, along with the suggested percentage of AGR or the applicable per MHz/per carrier charge.	NA
46	In case it is decided to assign some frequency spectrum in E-band (71-76/ 81-86 GHz) and/or V-band (57-64/66 GHz) for Access (last mile connectivity)/ Integrated Access Backhaul (IAB) through auction, then: (i) Should the auction determined price of other bands serve as a basis of valuation for the above bands using spectral efficiency factor? If yes, which spectrum bands be related, what efficiency factor or formula should be used and what should be the basis for the same? Please justify your suggestions (ii) If response to question (i) above is no, what other methodology may be used? Please justify your suggestions.	NA

No	Questions	Comments
47	In case it is decided to assign some frequency spectrum in E-band (71-76/ 81-86 GHz) and/or V-band (57-64/66 GHz) for Access (last mile connectivity)/ Integrated Access Backhaul (IAB) through auction, then: i. Should the auction determined price of other countries in Eband (71-76/ 81-86 GHz) and/or V-band (57-64/66 GHz) serve as a basis of valuation of these bands? If yes, what methodology should be followed for using this auction determined price as a basis for valuation? Support your suggestions with justifications and country-wise auction data. ii. If the above approach is considered appropriate, should the international auction-determined prices be normalized to account for cross-country differences such as population, GDP, purchasing power parity (PPP), subscriber base, and other relevant factors? If so, should normalization be carried out by using the ratio of auction prices of spectrum bands within the same country to neutralize the impact of cross country differences? Alternatively, please suggest any other suitable normalization methodology that may be adopted in this context. iii. Apart from the approaches highlighted above which other valuation approaches should be adopted for the valuation of Eband (71-76/ 81-86 GHz) and/or V-band (57-64/66 GHz)? Please provide detailed information.	Please see response to Q19
48	In case it is decided to assign some frequency spectrum in E-band (71-76/ 81-86 GHz) and/or V-band (57-64/66 GHz) for point-topoint connectivity requirements of captive (non-commercial/ non-TSP) users, then: (i) Should the spectrum charges for E-band (71-76/ 81-86 GHz) and/or V-band (57-64/66 GHz) for point-to-point connectivity requirements of captive (non-commercial/ non-TSP) users may be levied as per the M x C x W formula as specified in the DoT's order No. P-11014/34/2009-PP dated 11.12.2023? Is there a need to revise this formula by inclusion of additional factors, modifying slab/factor values etc.? If yes, please specify which additional factors should be included and what should be the revised slab/factor values. Please provide detail of the same along with justification. (ii) If the answer to above question is no, whether an alternative charging mechanism such as link to link charges as recommended in 2014 for levying spectrum charges for E and V bands for non-commercial/ captive backhaul use, should be adopted? Please provide detailed justification.	Please see response to Q19

No	Questions	Comments
49	In case it is decided to assign some frequency spectrum in 6 (lower)/ 7/13/15/18/21 GHz spectrum bands for last mile connectivity (Fixed Wireless Access) of commercial telecom services and in Eband (71-76/ 81-86 GHz) and/or V-band (57-64/66 GHz) for Access (last mile connectivity)/ Integrated Access Backhaul(IAB) through auction, then: Should the value of: (a) 6 (lower)/7/13/15/18/21 GHz bands (for last mile connectivity) (b) E-band (71-76/81-86 GHz) and V-band (57-64/66 GHz) (for Access (last mile connectivity)/IAB) be determined using a single valuation approach? If yes, please indicate which single valuation approach or method should be adopted in each case and provide detailed justification	
50	In case your response to the above question is negative, will it be appropriate to take the average valuation (simple mean) of the valuations obtained through the different approaches attempted for valuation of the above spectrum bands, or some other approach like taking weighted mean etc. should be followed? Please support your answer with detailed justification.	Please see response to Q19
51	In case it is decided to assign some frequency spectrum in 6 (lower)/ 7/13/15/18/21 GHz spectrum bands for last mile connectivity (Fixed Wireless Access) of commercial telecom services and in Eband (71-76/81-86 GHz) and/or V-band (57-64/66 GHz) for Access(last mile connectivity)/ Integrated Access Backhaul (IAB) through auction, then: What ratio should be adopted between the reserve price for the auction and the valuation of the spectrum in: (a) 6 (lower)/7/13/15/18/21 GHz bands (for last mile connectivity) (b) E-band (71–76/81–86 GHz) and V-band (57–64/66 GHz) (for Access (last mile connectivity)/IAB) and why? Please support your answer with detailed justification.	Please see response to questions 4, 6, 9, and 16.

No	Questions	Comments
52	In case it is decided to assign some frequency spectrum in 6 (lower)/7/13/15/18/21 GHz spectrum bands for last mile connectivity (Fixed Wireless Access) of commercial telecom services and in E-band (71-76/81-86 GHz) and/or V-band (57-64/66 GHz) for Access(last mile connectivity)/ Integrated Access Backhaul (IAB) through auction, then: What should the payment terms and associated conditions for the assignment of (a) 6 (lower)/7/13/15/18/21 GHz bands (for last mile connectivity) (b) E-band (71-76/81-86 GHz) and V-band (57-64/66 GHz) (for Access (last mile connectivity)/IAB) relating to: i. Upfront payment ii. Moratorium period iii. Total number of instalments to recover deferred payment iv. Applicable interest rate for protecting the NPV of bid amount Please support your answer with detailed justification.	Please see response to questions 4, 6, 9, and 16.
53	Any other suggestions relevant to the subject may be submitted with detailed justification.	NA