



KARACHI METROPOLITAN CORPORATION, KARACHI SINDH.

FINAL SANCTIONED REVISED TAX SCHEDULE-V, PART-I(A) (See sections 96(1), Read With Section 103(1,2))

S.No	DETAIL/ DESCRIPTION OF SANCTION APPROVED REVISED TAXES, RATES, TOLLS, FEES, CHARGE PARKING, CESS, RENT, LEASE RATES AND FINES, PENALTIES ETC. WITH THEIR COLLECTION BYLAWS Etc.	SANTIONED RATES Etc.
A.10	Item No. 10.0 BTS TOWERS.	
Note:	Instruction vide Local Government Notification No. RO(LG)/Misc:/ 4(27)/2022 Dated December 08, 2022. This Tax was Already Approved Vide Cr. No..106 Dated December 07, 2022.	
1.0	Installation Fees as Per Direction GOS Of BTS Tower / Telephone / Mobile Telephone Poll Etc on Any open Place.	30,000/= Rupees
1.1	Building Material for nstallation Fees as Per Direction GOS Of BTS Tower / Telephone / Mobile Telephone Poll Etc on Any open Place.(For 90 Days)	30,000/= Rupees
1.2	Installation Fees as Per Direction GOS Of BTS Tower / Telephone / Mobile Telephone Poll on Any Building (Plaza, Flats Roof Top etc.)Already Constructed.	30,000/= Rupees
1.3	Work Permit NOC For Telephone Antina Tower / Mobile BTS Telephone Antina Installed on Oppen land in KMC, Karachi Sindh. Limits.	100,000/= Rupees
1.4	Work Permit NOC for Telephone Antina / Mobile BTS Telephone Antina Installed on Any Building (Plazza, Flats Roof Top etc.) Already Constructed in KMC, Karachi Sindh. Limits.	200,000/= Rupees
1.5	Work Permit for instalation Generator / Solar Plates/ Machinery Plants / Electricity Manufacturar Plant Of BTS Towers. Or Private Purpose Etc.	50,000/= Rupees
1.6	NOC / Permit for instalation K.E Electricity Transformer with cables for BTS Towers, Private Purpose .Etc.	50,000/= Rupees
1.7	Right of Way Using KMC Infrastructure For Paki Piri on aqiring of Streets, Roads, Open Plots, Service Roads Sides, Foot paths for, Poles of Electricity, Telephone , Mobile Companies Antina Etc. (Daily Basis Recovery Based on aqiring of area of KMC etc.	10/= Rupees Per Sq.Ft Daily Basis Rates.
1.8	Work /Bussiness Permit of BTS Tower.	50000/= Rupees Per Anum.
1.9	Work /Bussiness Permit Of Cables for Bussiness In KMC Limits.	50000/= Rupees Per Anum.
1.10	Work /Bussiness Permit BTS Towers from the telecommunication and other related companies.	50000/= Rupees Per Tower Per Anum.
1.11	Work /Bussiness Permit of K Electric Poles & Transformer , Electricity related Purpose.	5000/= Rupees Each Case Per Anum.
1.12	Environment Protection Tax on Mobile ,Telephone , BTS Tower, And Telephone Tower Etc. for its usage In City area.	100,000/= Monthly



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2.0	Penalties or Fines for Violation (Non Depositors)of Above Fees and Violating by-laws, Rules.	
2.1	Fines on Non getting NOC /Permits from the authorities Which is Seven Times Except The Original Fees	Seven Times Penalty
2.2	Fees for Non Obey the rules of licence will be charged double on violation of licensing rules.	Double Rate Penalty
2.3	Fines will be charged as per deceson of authority from those who are Trading without permit and such removed on their own Expenditure risk and cost. .	As per Authority Decision
2.4	Fines will be charged from Not removing their Trades from streets, roads within one week(Separate Notice will be Issued To Remove otherwise Fine will be Charged.) .	As per Authority Decision
2.5	Fines will be charged from Not Giving any Tax and will be send these cases to the Court Of Law.	As per Authority Decision
2.6	Fine will be On Roads , Foot paths All Trade making over their on their own Risk and Cost.	10,000 Daily Basis
2.7	All Kinds Penalty will be imposed by the All Directors/Taxation Officer/Director Anti Encroachment/Director Taxes/Director Advertisemen/Director Estate on Violation of Above rules and by-laws.	
03.0	by-laws.	
03.1	In exercise of the powers conferred by section 103, 138 read with Sections 95, 96, 97, 98, 99 and 100 thereof and entry Schedule-V, Part-1 thereto of the Sindh Local Government Act, 2013 and in supersession of all the previous Notifications of this KMC are pleased to make the following by-laws:-	
03.2	These by-laws may be called Karachi Metropolitan Corporation (BTS Tower by-laws 2023.)	Short title and commencement
03.3	These shall come into force at once.	
03.4	In these by-laws, unless there is anything repugnant in the subject or context	Definitions
03.5	"Act" means the Sindh Local Government Act. 2013 Amendate upto June 2023.	
03.6	"Installation Fees " means the mutually agreed upon service are being provide for the service round o clock to the inhabitants of KMC Jurisdiction . The Installation fees was leived on per Government Of sindh Instruction In lieu of Instalation of BTS Tower once;	
03.7	"Corporation" means Karachi Metropolitan Corporation.	



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03.8	"Council" means council of Karachi Metropolitan Corporation;	
03.9	"Income" means Income from collection on account of BTS Tower Installation Fees but shall not include grants, contributions and deposits;	
03.10	"Senior Director Taxes" means Concerned Head Of Department for BTS Tower Installation Work permit & NOC Issuing Officer of KMC.	
03.11	"BTS Fees & Work Permit NOC Taxation Proposal" means a proposal framed by a council for the Levy/ Imposition/abolition or suspension of tax or charge, or an increase or reduction in rates of tax or charge;	
03.12	"Utility Service Provider" means any utility service provider operating within the territorial limits of Karachi;	
03.13	Words and expressions used herein but not defined in these by-laws shall have the same meanings as are assigned to them in the Act 2013.	
03.14	This Council may fix the rates of BTS Tower / Telephone / Mobile Telephone Poll Etc Fees Etc.	
03.15	The Council may at any time review the prescribed rates if in its opinion any position or change in the tax structure is called for and, thereafter, may formulate or cause to be formulated a taxation proposal.	
03.16	The Corporation may collect Income through its E.Portals for such kind Recovery or any other mean, Utility Service Provider by issuing a notification after approval from the Government and by entering into a mutually binding contract with a Utility Service Provider.	
03.17	E.Portals, Utility Service Provider shall be empowered to collect BTS Tower / Telephone / Mobile Telephone Poll Etc Fees, Etc. through Senior Director Taxes from all the Bts Installation Companies of Karachi as per rates prescribed in Taxation Proposal as approved by the Council.	
03.18	Utility Service Provider shall be entitled to receive all amount collected on behalf of The KMC through its General Fund Account Directly credit through e-Billing system Or vPay Order in favor OF KMC..	
03.19	Utility Service Provider shall deposit the collected amount in the designated account of the Corporation on monthly basis after making proper entries into the relevant books as per accounts rules.	
03.20	Utility Service Provider shall keep the record relating to accounts of the Income and share the same with the Corporation for re-conciliation.	



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03.21	Utility Service Provider shall not be involved in overcharging by himself or any third party contractor by any means of contract or otherwise.	Prescribed Rates
03.22	Every Company For Telecommunication Related working, carrying their business in the limits of Karachi Metropoliton Corporation is liable to pay the BTS Tower / Telephone / Mobile Telephone Poll Etc fees as per the Notified rates by the Council and in the manner prescribed thereof through E.Potal KMC.	
03.23	No exemption may be granted to any private, autonomous, semi-government, government organization or any other entity not defined in these by-laws.	Collection Procedure
03.24	In case of any dispute arising between Utility Service Provider and Corporation regarding any matter arising shall have the right to resolve the dispute through arbitration under the Arbitration Act, 1940.	
4.0	STRUCTURAL DESIGN OF BUILDINGS & BTS/ TOWER / ANTENNA	
4.1	Structural Design Requirement.- A builder/owner shall submit structural design of BTS having all buildings of public assembly.	
4.2	Earthquake Resistant Design.- A structural engineer hired by a builder/owner shall ensure that:	
4.3	a structural design of building and its individual elements conforms to the requirements of the applicable codes such as National Building Code of Pakistan, or UBC 1997, for resisting earthquake forces.	
4.4	the seismic zone factor for building is based on the Seismic Zone Map of Pakistan.	
4.5	guidelines for earthquake resistant construction Issued by ERRA are followed.	
4.6	Structural / Engineering Design.- The structural engineer hired by a builder/owner shall ensure that	
4.7	the following are taken into account, in accordance with requirements of building codes:	
4.8	(a) dead loads; (b) Live Load; (c) earth preshure; (d) snow loads & pressue of water and other lliquids; (f) wind load, where they govern the design; (g) seismic loads; And such other load as are relevent articles etc.	
4.9	Compliance to Design Codes.- The structural engineer hired by a builder/owner shall ensure that:	
4.10	a structural design of a building meets the requirements of a current edition of the following design codes:	



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4.11	National Building Code of Pakistan, National Reference Manual, 1986, Uniform Building Code, 1997 Edition, International Conference of Building Officials, USA;	
4.12	the geotechnical investigations are done in light of the specific details of a building, the order of loads and special requirements and the scope and quantum of testing is consistent with applicable parameters of a project.	
4.13	Structural Drawings:- The structural engineer hired by a builder/owner shall ensure that:	
4.14	structural drawings show information and level of detail customarily required to be carried by design drawings;	
4.15	drafting follows generally accepted conventions and practices;	
4.16	drawings are numbered and revision numbers with clearly marked dates;	
4.17	the following information is shown on structural drawings / documents:	
4.18	specific values of various geotechnical parameters adopted; with proper soil investigation tests and recommendations of firm conducting such type of tests; specific values of various parameters adopted for computation of earthquake loads and code of practices notified by Government to be used in such areas followed;	
4.19	specific values of various parameters adopted for computation of wind loads and code of practice followed; design live loads adopted for each floor; uniformly distributed and other dead loads adopted for each floor; a description of partitions at each floor and the loading adopted to account for them;	
4.20	structural drawings bear the seal and signature of the structural engineer with at least Masters in Structure Engineering;	
5.0	Tests for construction materials are carried out as required by the KMC;	
5.1	tests of materials are carried out by an approved agency at the cost of the builder/owner and tests are made as per prevailing standards; and	
5.2	a complete record of test of materials and their results are available for inspection during progress of work.	
5.3	Supporting Frame Structure:- If a builder/owner constructs a building which requires a supporting structure, it shall be provided in the form of Steel, R.C.C PILES. Piles should be properly designed based on load bearing tests.	



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FINAL SANCTIONED REVISED TAX SCHEDULE-V, PART-IV(A) [See sections 96(1), Read With Section 103(i,2)]

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5.4	Building Site.- A builder/owner shall ensure that no building is erected upon a site re-filled with rubbish, waste or other refuse, until the whole ground surface or site of such building is rendered innocuous and is covered with a layer of clean earth, sand, hard core, clinker or ash rammed solid at least 24 inches (0.60 m) thick.	Site
5.5	Boundary Wall.- A builder/owner shall ensure that a boundary wall abutting the public street, footway, or places which the public are allowed to use, has fencing consisting of no barbed wire or any material likely to cause injury to a person or an animal.	
5.6	Soil Test Report / sub soil investigation.- A builder/owner shall for all buildings irrespective of size of plot carryout soil tests to be made by an Engineering firm/Geo Tech Consultants and vetted by consulting structure engineer with Masters duly registered with PEC to analyze and recommend the soil requirements for structural design and furnish soil stability certificate along with a complete soil investigation report.	Foundation
5.7	Foundation near Drain.- A builder/owner shall provide additional information as per requirements of the Municipal Committee to prove that the foundations of the buildings are safe with the provision of proper design, surface drainage facilities and steps taken to secure the building with retaining structures where a building is to be erected near a drain or an excavation at a distance less than the depth of the said drain or excavation.	
5.8	Structural Calculation.- A builder/owner shall submit a certificate from a qualified structural engineer to verify the structural stability of foundations and super structure and providing complete calculations as a proof that design fulfills the soil stability requirements.	
6.0	Damp Proof Course.- A builder/owner shall provide:	
6.1	damp proofing for walls and floors according to the standard specifications in National Building Code of Pakistan, Uniform Building Code, 1997 & National reference Manual, 1966; and	
6.2	a suitable water proofing system for portion of a building below the ground level where a floor or wall of a building is subject to water pressure.	
6.3	Floors Below Street/Road Level.- A builder/owner shall:	
6.4	submit design for RCC piling or detail of retaining wall along the plot for construction of floors beyond 10 ft. (3.05 m) depth from road level;	



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6.5	ensure that design of RCC piling or retaining wall is based on the soil investigation report;	
6.6	not excavate any site through mechanical means; and	
6.7	not construct any basement where the water table prohibits the same and where the plot is not below the road/street.	
6.8	Stair Case and Lift- Stair case Specifications.-	
6.9	A BTS Tower builder/owner shall ensure that:	
6.10	a building may have a stair-case with a minimum clear width of 3 ft and if stairs given on one side of building, it may use side space for such purpose.	
6.11	the rise of a stair-case step is not more than 7 1/2 inches (0.19 m) and a tread is not less than 10 inches (0.25 m);	
6.12	there are not more than 15 steps between each landing and a landing is not less than 3ft- inches (1.07m) in depth except in case of service stair-case where the number of risers are increased depending upon the design requirements;	
6.13	Lift or escalators.- A BTS Tower builder/owner shall:	
6.14	ensure that any lift or escalator provided in a building conforms to an international standard with respect to safety devices and specifications; and	
6.15	provide number of lifts keeping in view the size, height and use of a building in conformity with standards of National Building Code of Pakistan, Uniform Building Code, 1997 & Federal Fire Service Manual, 1986.	
6.16	Roof Top.- A builder/owner may provide sloping roof top in G.I (Galvanized Iron) Sheets.	
6.17	Storm Watering.- The M.C.C. shall not allow any storm watering.	
7.0	Design Requirements for BTS / Tower / Antenna	
7.1	A mobile company shall:	
7.2	Design tower keeping in view the following aspects; using tower which occupy less space; using the suitable colors on a tower; utilization of high rise building / water tank, wherever possible; height of tower; wall mount / mast; in-floor solutions must be encouraged; try to share a tower with other companies where ever possible. not violate mandatory open spaces of a plot for installation of a tower;	



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7.3	also comply with all applicable standards for BTS / Antenna laid down by federal/Provincial Regulatory Authorities; and ensure that for operations of BTS site on generator, noise level is kept up to 65-75DB (Decibel) and vibration level upto 1.1 M at one meter distance from the generator and a generator is housed in brick walled room / sound proof canopy to comply with the above two parameters.	
8.0	BUILDER/OWNER'S OBLIGATIONS	Air Pollution.-
8.1	Obligations of Builder/owner at Construction Sites.-	
8.2	A builder/owner shall not undertake building works or demolition of an existing structure unless necessary arrangements, such as sprinkling of water on dusty materials are made to prevent air pollution.	
8.3	Site Hoarding.- A builder/owner shall not start building works on a site abutting a street without providing hoarding or barrier along the length of a site, to the satisfaction of the Municipal Committee, for the safety of passersby and workers. This shall not apply for the structures situated 15 ft (4.57 m) away from the edge of a public street with maximum 25 ft (7.62 m) height.	
8.4	Written Permission for Use of Street/road.- A BTS Tower builder/owner shall:	
8.5	Guidelines for Lease / Rental / Sale of Infrastructure/ Telecommunication Tower/ BTS Towers.	
8.6	The Infrastructure/ Tower Provider shall provide the right to use the Infrastructure equipment/ Tower installed and/or owned by it on lease / rental / sale basis according to the following guidelines:	
8.7	1. The applicant must be licensed Telecom Operators in Pakistan who has obtained license from Pakistan Telecommunication Authority (PTA) / Government of Pakistan for providing Cellular Mobile, Long Distance & International (LDI), or Wireless Local Loop (WLL) and related services in Pakistan (hereinafter referred to as "Operators").	
8.8	2. The Infrastructure/ Telecommunication Tower Provider shall enter into a formal Lease / Rent agreement covering all aspects of the transaction Lease, rent e.t.c.	
8.9	3. The Operators shall not sub-lease, further rent to another party, or sell the Infrastructure equipment/ Tower to any other party without the prior written consent of PTA.	
8.10	4. If the equipment is sold, the sale invoice shall clearly restrict the Operator from further sale of equipment to any other party without the prior written consent of Pakistan Telecommunication Authority.	



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8.11	5. The Infrastructure/ Telecommunication Tower Provider shall be responsible for the use of equipment by any unauthorized party i.e. an unlicensed operator, or for any other violation of Infrastructure/ Tower License awarded to it by PTA or for violation of any other relevant clause / requirement of the Pakistan Telecommunication (Re-organization) Act, 1996, policies, rules and regulations of the Telecom sector.	
8.12	6. If the Infrastructure/ Telecommunication Tower Provider is in a monopolistic position or is declared Significant Market Power (SMP) the Internal Rate of Return (IRR) charged for leasing its equipment shall be competitive with the market.	
8.13	7. In the event of default by the lessee or the Operator to whom the equipment has been rented by the Infrastructure/ Telecommunication Tower Provider, the Operator cannot sell or allow use of the equipment to any other party and the Infrastructure/ Telecommunication Tower Provider must repossess the equipment or restrict access to his equipment to the Operator.	
8.14	8. In case of any dispute between the Infrastructure/ Telecommunication Tower Provider and the Operator, the two parties shall resolve the dispute amongst themselves. If they fail to resolve the dispute amicably, they may refer the case to PTA.	
8.15	9. The Infrastructure/ Telecommunication Tower Provider shall be responsible for the safety of public, public and government property near or around which its equipment may be installed.	
8.16	10. The Infrastructure/ Telecommunication Tower Provider shall be responsible for the insurance, safety and maintenance of the equipment.	
8.17	11. The Infrastructure/ Telecommunication Tower Provider shall provide to PTA a copy of the lease / rental agreement or sale invoice with the following information about the Operator to whom the equipment has been given on lease / rent or to whom the equipment has been sold: a. Name b. Address c. Contact Numbers d. Name of Chief Executive Officer / Principal Partner / Proprietor e. Type of License Held f. License Number g. Clearance Certificate from PTA with respect to their dues to PTA.	
8.18	12. An Infrastructure/ Telecommunication Tower Provider may lease / rent / sell the equipment to another Infrastructure/ Telecommunication Tower Provider, who may further lease / rent / sell the equipment to Telecom operators.	



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8.19	13. If an Operator after having purchased the equipment from an Infrastructure/ Telecommunication Tower Provider finds that it cannot utilize the equipment for whatever reason, it may sell the equipment back to the original or another Infrastructure/ Telecommunication Tower Provider.	
8.20	14. An Infrastructure/ Telecommunication Tower Provider may share the use of equipment with another Infrastructure/ Telecommunication Tower Provider for leasing or renting to their respective customer Operators.	
8.21	Unprecedented growth in the communication sector in recent years,	
8.22	Manifold increase in mobile voice & data traffic →	
8.23	Exponential increase in a number of cellular towers in India and more & more towers erected each year.	
9.0	Wireless	
9.1	The popularity of cell phone and wireless communication devices has resulted in a proliferation of cell towers across the country. As on 31 Jan 2013, there are total 0.7466 Millions Base Transmitting Stations (BTS) in the country.	
9.2	There has been public concerns on possible health hazards and impact on biota & environment due to EMF radiation from Mobile Towers /Handsets.	
9.3	KMC is hereby imposing restrictions on installations of BTS Towers in school/ hospitals/ playgrounds/ Jail sites etc.	
9.4	EMF Radiation Norms	
9.5	The License conditions were amended on 4.11.2008, directing the licensees to comply to ICNIRP prescribed radiation norms.	
9.6	Instructions were issued in 2010 for compliance of the radiation limits/ levels by way of self certification of their BTS to the respective Telecom Enforcement Resource & Monitoring (TERM) Cells of DoT.	
9.7	TERM Cells carry out the testing of radiation levels on random basis for 10% of towers. If a site fails to meet the EMF Radiation criterion, there is a provision of penalty of about US\$ 10,000 per BTS per service provider and directions to stop radiating from site.	
9.8	Revised Radiation Norms	
9.9	Based on the Recommendations of the Inter Ministerial Committee in the year 2010, the limiting reference levels of Electromagnetic radiation from Mobile towers has been reduced to 1/10th of the limit prescribed by the ICNIRP with effect from 2012.	
9.10	Frequency, Revised DoT Norms effective from 01.09.2012	



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9.11	900 MHz, 0.45 Watt/Sqm	
9.12	1800 MHz, 0.90 Watt/Sqm	
9.13	2100 MHz, 1.00 Watt/Sqm	
9.14	SAR Level for Mobile Handsets	
9.15	IMC also recommended adoption of Specific Absorption Rate (SAR) limit to 1.6watt/Kg (averaged over 1 gm of tissue):	
9.16	Frequency, Revised DoT Norms effective from 01.09.2012 ICNIRP	
9.17	[10 MHz to SAR Limit effective from 01.09.2012	
9.18	10 GHz]	
9.19	General Public exposure, 1.6watt/Kg (averaged over 1 gm tissue), 2 watt/Kg (averaged over 10 gm tissue)	
10.0	Setting up Telecom Towers	
10.1	Number of Multiple antennas* Building/Structure[safe distance] (in mtrs) distance from the antenna	
10.2	1. 20 fts.	
10.3	2. 35 fts.	
10.4	3. 45 fts.	
10.5	4. 55 fts.	
10.6	Number of multiple antennas relates to same direction orientation.	
10.7	Alternately operators through actual peak traffic time measurements, need to establish that exclusion zone does not cover areas with public exposure.	
10.8	Setting up Telecom Towers	
10.9	Wall Mounted/Pole mounted Antenna:	
10.10	Antenna height \geq 5 metre above ground/road level on flyovers.	
10.11	No Residential place /office directly in front of the antenna at a height comparable to the antenna in the exclusion zone.	
10.12	No restriction for installation of tower on/ near specific buildings such as schools/ hospitals/ playground etc. as new tougher standards based on precautionary principles apply equally to all locations with human presence.	
10.13	Report of International Bodies on Radiation upto 2011	
10.14	WHO Fact Sheet No. 193 of 2010	
10.15	http://www.who.int/mediacentre/factsheets/fs193/en/	
10.16	States that "A large number of studies have been performed over the last two decades to assess whether mobile phones pose a potential health risk. To date, no adverse health effects have been established for mobile phone use".	



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10.17	WHO in its Fact Sheet No. 193 of June 2011, has stated that there are some indications of an increased risk of glioma for those who reported the highest 10% of cumulative hours of cell phone use, although there was no consistent trend of increasing risk with greater duration of use.	
10.18	Thus there is so far no conclusive scientific evidence of adverse health effects due to RF emissions from mobile phone towers.	
10.19	WHO regularly conducts a formal risk assessment of all studied health outcomes from radiofrequency fields exposure.	
10.20	RFP PROPOSALS on Scientific Studies	
10.21	Department of Science & Technology (DST) constituted a committee on 01.10.2012 to examine the possible harmful effects from Cell towers on the population living in the vicinity and to develop frame of reference for calling RFP for scientific assessment of health hazards and adverse impact on ecology in specific context with representation from :	
10.22	Senior Director Taxes, Director Department IT Department, Superintendent Engineering Of Concerned Department are Member under Metropolitan Commissioner Will Final the NOC & Other Documents etc.	
10.23	In a latest development, in Geneva from 19 to 22 Feb. 2013 to discuss EMF Radiation related health issues with WHO Secretariat and Technical standards with ITU.	
10.24	WHO officials suggested that lowering of the EMF radiation limit alone may not be adequate to achieve the desired results, though a strong regulation on siting of BTS Tower antennae could be more important. Few countries have imposed restrictions specifying the horizontal distance in regards to the installation of base station Antenna from sensitive locations in the urban planning itself.	
10.25	Pakistan scenario with more than 10 mobile operators in each service area along with high population density was considered quite different from Europe	
10.26	The conditions in India and other developing countries are totally different from those in Europe in terms of	
10.27	mobile phone usages	
10.28	number of operators	
10.29	higher levels of population density	
10.30	in-organic growth in urban areas	
10.31	narrow lanes separating buildings	
10.32	lower body mass index & fat content	
10.33	lesser spectrum per operator	



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FINAL SANCTIONED REVISED TAX SCHEDULE-V, PART-I(A) (See sections 96(1), Read With Section 103(1,2))

S.No	DETAIL/ DESCRIPTION OF SANCTION APPROVED REVISED TAXES, RATES, TOLLS, FEES, CHARGE PARKING, CESS, RENT, LEASE RATES AND FINES, PENALTIES ETC. WITH THEIR COLLECTION BYLAWS Etc.	SANCTIONED RATES Etc.
10.34	radiated power being 20 Watt per sector	
10.35	higher levels of possible RF exposure on account of multiple operators having BTSs on same tower, and Antennas mounted at lower heights ,	
10.36	Poor QoS also leads handsets to operate at higher levels of power	
10.37	Outsourcing of infrastructure installation & maintenance to third parties by operators	
10.38	Inadequate technical expertise at field level and local authorities to understand exclusion zone calculations based on ITU K series recommendations.	
10.39	Officials from International Agency on Cancer Research (IARC) (Part of WHO) at Lyon, France indicated that in Europe Mobile Towers are not considered as a threat as Antennas are at higher levels /heights and fairly distant apart.	
10.40	During discussions on Indian scenario, IARC felt that their present research that is addressing only Mobile Handsets may have to be reassessed to include Mobile Towers also.	
10.41	A research project focusing on measurements of exposure levels from base stations in densely populated areas and areas covered by many base stations, level of usage, and measurements of emissions from regular and counterfeit mobile phones, was considered to be of great scientific interest by IARC.	
10.42	Based on the suggestions from IARC, Mobile Handset usage study was taken up by licensor in India.	
10.43	IARC Monographs 102 released in April 2013 states:	
10.44	"Radiofrequency Electromagnetic , Fields are Possibly CARCINOGENIC to humans (Group	
10.45	The Pakistan Telecom Service Providers for better evaluation on the human exposure to electromagnetic field from multiple sources of communication installation, and for taking steps to reduce the radiation levels in the areas around transmitting stations.	
10.46	Various Licensing Service Areas, suggestion. There are 08 Licensed Service Areas and on an average, there are 05 Mobile Operators in each Licensed Area at a time.	
10.47	Typical Results show that on an average more than 100,000 Mobile users of one operator in one licensed service area have about 2 hours of mobile usage per day. Taking on an average 05 operators in all the 08 service area in Karachi, at least 20 million mobile users have mobile usage of 2 or more hours per day. More data obtained later covering 100% Licenses from 05 Operators further confirmed the above findings.	



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10.48	In Europe, the tariff for mobile service is higher than fixed telephone service and the Tele-density for both Mobile & Fixed Lines phones is comparable to the level of 100+ in Europe and that explains lower levels of usage of mobile.	
10.49	NEED FOR EMF ESTIMATOR UPDATE Though Environment Department Recommendations on EMF calculations including	
10.50	exclusion zone distance calculations and EMF Estimator Software are available, but further up-gradation of the software is required.	
0.51	KMC has already written to Secretary General (IT) & Director IT with a request to make it more user friendly and a special feature incorporating acceptance of Excel data based BTS data inputs by EMF Estimator software and avoiding manual keying of all the data. Further, linkages with 3D maps have also been requested.	
0.52	ITU Workshop on Human Exposure to Electromagnetic Fields (EMF) at TURIN, ITALY on 9th May 2013	
0.53	Issued "Turin Call to Action" on compliance with harmonised EMF Standards and addressing public concern regarding human exposure to EMF and possible health effects.	
0.54	KMC Authorities should have to call upon to collaborate with Policy Makers, Standards Development Organisations, ICT Industry, and relevant international and regional organisations on:	
0.55	Compliance with harmonized EMF Standards and addressing public concern regarding human exposure to electromagnetic fields (EMF) and possible health effects	
0.56	"Turin Call to Action"	
0.57	Shaping the Global Agenda through ITU Recommendations	
0.58	Lead with vision adopting best practices & effective policies consistent with WHO	
0.59	Harmonised EMF standards & measurement procedures	
0.60	Promote EMF information and education resources	
0.61	Share knowledge and raise resources	
0.62	Enhance cooperation between organisations, standardisation bodies, R&D units, Governments on EMF compliance	
0.63	Support WHO and other stakeholders on clarification of EMD Scientific uncertainties	
0.64	Identify strength & weaknesses of compliance Implementation	
0.65	Mobilise EMF expertise for further collaboration on projects with WHO/ ITU	
0.66	An Annual EMF Information Forum	
0.67	International Stakeholder Seminar on Radiofrequency Policies	



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10.68	5 June 2013 Paris, France	
10.69	(hosted by the French Agency for Food, Environmental and Occupational Health & Safety, ANSES);	
10.70	Summary Analysis of WHO 2012 Survey on Risk Management Policies regarding EMF	
10.71	Policies on exposure from Mobile Devices, Tower Installations, Occupational exposure	
10.72	Policy Patterns based on	
10.73	- Evidence	
10.74	- Precautionary Principles	
10.75	- Voluntary	
10.76	- Consultation	
10.77	ICRC policy may be implemented as 'PRECAUTIONARY Approach'	
10.78	WHO accepted the suggestions that inputs from all parts of world should be considered while finalising any Reports/ Guidelines.	
10.79	Cancer in Humans Being Due To RTS Tower.	
10.80	There is limited evidence in humans for the carcinogenicity of radiofrequency radiation. Positive associations have been observed between exposure to radiofrequency radiation from wireless phones and glioma, and acoustic neuroma.	
10.81	Cancer in Experimental Animals	
10.82	There is limited evidence in experimental animals for the carcinogenicity of radiofrequency radiation.	
10.83	Overall Evaluation Radiofrequency electromagnetic fields are possibly carcinogenic to humans.	
10.84	RECOMMENDATION	
10.85	IARC and WHO need to go further from IARC Monographs' 102 findings with focus on latest available inputs from developing world outside Europe. Inputs from Indian Case study as above, is an example.	
10.86	ITU needs to have a refresh of all EMF related initiatives through Study Groups. Possibly a new ITU Focus Group on 'EMF Radiation & Health Issues' cutting across ITU-T, ITU-R and ITU-D needs to be constituted for delivery of time bound results instead of 4 years cycle.	
10.87	An ITU Handbook on EMF Radiation could also be taken up in the proposed Focus Group.	



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