



GOVERNMENT OF KHYBER PAKHTUNKHWA
CLIMATE CHANGE FORESTRY, ENVIRONMENT
AND WILDLIFE DEPARTMENT
(Section Environment)

NOTIFICATION

Peshawar Dated the 23/06/2025

No. SO/ENV/CCFE&WD/4-2/ECP-2025: In exercise of powers conferred under Clause xxii of Section 7 of the Khyber Pakhtunkhwa Environmental Protection Act, 2014, (Khyber Pakhtunkhwa Act No. XXX of 2022), the Khyber Pakhtunkhwa Environment Protection Council (EPC) in its 3rd Meeting held on 13.05.2025 has been pleased to approve the following guidelines;

1. **Short title and commencement:** These guidelines may be called the Khyber Pakhtunkhwa environment protection (base transceiver station) guidelines 2024.
2. **Definitions: - (1)** In these guidelines, unless there is anything repugnant in the subject or context:
 - a. **“Act”** means the Khyber Pakhtunkhwa Environmental Protection Act, 2014.
 - b. **“Agency”** means the Khyber Pakhtunkhwa Environmental Protection Agency established under section 5 of the Act;
 - c. **“Ambient Noise”** means the intensity, duration and character of sounds from all sources in a particular area such as residential, commercial, industrial, silence zone and mixed categories of these areas;
 - d. **“Antenna”** means the surface that emits electromagnetic radiations;
 - e. **“BTS”** means the Base Transceiver Station with or without gen set having stationary component of a cell phone system which includes transmit-receive units and one or more antennae, combined systems often including multiple co-located systems and ganged directional antennae;
 - f. **“Director-General”** means Director-General of the Khyber Pakhtunkhwa Environmental Protection Agency;
 - g. **“Environmental Assessment Checklist”** means an expression of information or documents or data or information, appended with the guidelines, compulsorily required to be submitted along with an application for environmental assessment of a BTS project;
 - h. **“Gen set”** means a machine that converts mechanical energy into electrical energy, operated through any source of energy;
 - i. **“GPS”** Global Positioning System shall be required for project location.
 - j. **“Hospital”** means a facility defined under the Act;
 - k. **“ICNIRP guidelines”** means the guidelines issued by International Commission on Non- Ionizing Radiation Protection;
 - l. **“ICNIRP”** means the International Commission on Non-Ionizing Radiation Protection;
 - m. **“NEQS”** means National Environmental Quality Standards;
 - n. **“Noise Emission Standard”** means the standard to be used for measurement of noise at a minimum distance of one meter from source;
 - o. **“Operator”** means a cellular mobile or wireless local loop operator;
 - p. **“Proponent”** means the person who proposes or intends to undertake a project;
 - q. **“PTA”** means Pakistan Telecommunication Authority;
 - r. **“Rules”** means Khyber Pakhtunkhwa Environmental Assessment Rules, 2021;



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- s. **"Silence zone"** means a zone declared as such by a competent authority or defined under NEQS;
- t. **"Smoke opacity"** means degree of darkness of flue gas caused by emission of unburnt carbon particles due to incomplete combustion of fuel measured on Ringelmann Scale; and
- u. **"Work Practice Manual"** means guidelines which shall be prepared by each operator/proponent for the safety of all those individuals working on the Antenna Site.
- (2) All other words and expressions used but not defined herein shall bear the meaning given thereto in the Act or the Rules.
3. **Preparation and Filling of Environmental Assessment Checklist:** - The proponent shall file an Environmental Assessment Checklist for the BTS project site appended to these guidelines and submit to the Agency as per rules mentioned in "The Khyber Pakhtunkhwa Environmental Assessment Rules, 2021.
4. **Establishment of BTS Tower:** The BTS tower shall be avoided to establish in residential area. However, if it is not possible to avoid residential areas then;
- (1) The BTS towers shall be located in open space.
- (2) Preference shall be given to establish in commercial areas.
5. In case of uncontrolled exposure of general public, to the BTS towers, the minimum safe distance is a radius of **25 feet** from the **radiating surface of antenna**.
(In case where the Radio Frequency Radiation at a site exceeds the National Standard for general public/ uncontrolled exposures, the site shall be posted with appropriate signs of warning and power down/shut down the transmitters in the areas/remove the BTS Tower from the site).
6. In case of controlled (occupational) exposure, the minimum distance between the workers and the antenna must be **10 feet**.
7. The BTS tower shall not be installed or operated within the radius of **100 meters (radiating surface of antenna)** from a hospitals or educational institutions (e.g., School, College, Madrassa etc.).
8. The application for erection of BTS Tower in an environmentally sensitive area shall be processed as per Rule-24 of the "The Khyber Pakhtunkhwa Environmental Assessment Rules, 2021.
9. Design of the BTS Tower must be compatible with adjacent land uses and will not cause damage to the aesthetics of the surrounding area.
10. Distance between two or more BTS towers shall not be less than 50 meters.
11. **BTS Tower Erection on Roof Top:** (1) BTS towers shall not be allowed to be erected on residential building.
- (2) BTS towers shall be allowed to be erected on non-residential buildings/commercial buildings subject to the following conditions:
- a. A structural safety certificate must be obtained from Tehsil Municipal Administration (TMA) or any other concerned authority/Govt. office, as the case may be.
- b. The BTS towers shall have minimum 03 meter distance from the boundary of the building edge.
- c. No portion of the BTS Tower or accessory room shall project or over hang into the neighboring plots.



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- 12. Roof-Mounted Antenna:** (1) Roof-mounted antennas shall be elevated at least twenty five feet (25 ft.) above the height of people who may have to be on the roof top.
(2) Radiating surface of all roof-mounted antennas shall be kept twenty five feet (25 ft.) away from the public places including roof access points, telephone service points etc.
(3) All the roof-mounted directional antennas shall be placed near the roof periphery and be pointed away from the building.
(4) The large aperture antennas (lower maximum radiofrequency) and small aperture antennas (lower visual impact) shall be considered especially for installations on building roofs.
- 13.** There shall be no building of equivalent height in front of the ground based or roof top antenna as per distance criteria mentioned in guidelines No. 02 and 04. The antenna must be pointed away from building.
- 14. Water Bodies** (1) No BTS tower or building for accessory rooms shall be allowed in the bed and Right of Way (RoW) of Water Bodies like River, tributaries or flood channels etc.
(2) No Objection Certificate (NOC) from Irrigation Department is mandatory, if any water bodies fall within the radius of 30 meters from the proposed site for installation/erection of BTS Tower.
- 15. Airports:** No Objection Certificate (NOC) from Civil Aviation Authority (CAA) is mandatory, if the proposed site for installation/erection of BTS Tower falls within the radius of 01 KM from the Airport.
- 16. Railways:** No Objection Certificate (NOC) from Railway Authorities is mandatory, if the proposed site for installation/erection of BTS Tower falls within the radius of 30 meters from Railway Tracks, Godowns or any other/major installation of Railways.
- 17. Electric Lines:** (1) No Objection Certificate (NOC) shall be obtained from WAPDA (Power Division) or Concerned Authority (as the case may be) if the proposed site for installation/erection of BTS Tower falls within the radius of 30 meters from any High Voltage Electricity Distribution Line/Transmission Line & Tower.
- 18. Forest Areas:** For erecting the BTS Tower in forest areas, No Objection Certificate (NOC) from the Forest Department shall be submitted.
- 19. Heritage/National Monument/Archeological Site/Antiquity:** (1) No BTS Tower shall be allowed to be erected, if the proposed site is located within radius of 100 meters from Heritage/National Monuments/Archeological Sites/Antiquities.
(2) For the sites located within the distance of above 100 meters and upto 200 meters from Heritage/National Monuments/Archeological Sites/Antiquities, the construction/erection of one BTS Tower is allowed only after obtaining prior permission (NOC) from KP Archeology Department or Concerned Authority (as the case may be), provided that the telecom company/owner of BTS tower shall submit an affidavit to the Agency (KP-EPA) that such tower shall be available for use by other telecommunication service providers (minimum of three service providers) on a reasonable cost and non-discriminatory basis, and modalities and conditions for such shared use.
- 20. Alternate Source of Power Supply:** (1) For alternate source of power supply (in case of electric supply failure) preference shall be given to the solar energy. In case, the solar energy supply does not meet the required power, a Gen Set shall be allowed, provided that;
a. The Electricity Generator Set with rubber padding, proper silencer and canopy containing soundproof inner walls/insulated soundproof cabin to control noise and smoke emission.



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- b. The BTS tower with Gen Set shall not be installed within a radius of 100 meters from courts and offices.
- c. The proponent of a BTS project shall ensure compliance with the NEQS for environmental pollution.
- 21. Shared Use of Towers:** (1) The design, construction and installation of BTS Towers shall be done in such a way as to accommodate a minimum of three service providers for distributing signals using the same structure.
- (2) The telecom company/owner of BTS tower shall submit an affidavit to the Agency (KP-EPA) that such tower shall be available for use by other telecommunication service providers (minimum three service providers) on a reasonable cost and non-discriminatory basis, and modalities and conditions for such shared use.
- (3) The sharing of antennas on a single tower increases the effects of EMR (Electromagnetic Radiations) manifold, the height of the tower shall be increased.
- 22. Completion Certificate:** (1) After completion of the construction/installation or erection work on BTS tower, the concerned telecom company/proponent shall submit to the Agency, a completion certificates on **Form A & Form B** respectively, appended with the guidelines.
- (2) The Tehsil Municipal Administration (TMA) or any other concerned authority/Govt. office, as the case may be, if satisfied that the work has been completed and that the building or BTS tower is now fit for occupation or use, issue Occupancy or Use Certificate.
- 23. Damage and Liability:** The telecom company/owner/proponent shall be responsible for the structural stability of the BTS tower and the building in which or on which it is erected.
- 24. Addition, Alteration or Extension:** Any addition, alteration or extension in the BTS Project site shall be reported to KP-EPA prior to any such addition, alteration or extension.
- 25. Conditions of General Environmental Approval:** (1) General Environmental approval may be granted with such conditions as the Agency may deem fit for the protection of environment.
- (2) Provided that the BTS Towers established prior to the promulgation of Environmental Assessment Rules 2021, shall be exempted from penal consequences only to the extent of construction environmental approval if the site is otherwise in accordance with the relevant law.
- (3) Provided further that such like cases shall be with the assessment and approval of a committee constituted by the Director General EPA.
- 26. Antenna Installation Standards:** All antennas installed by the operators/proponents shall conform the standards as laid down in ICNIRP's guidelines of 1998 and any amendments if occurred, as may be available on PTA website for public and professional exposure to radiation.
- 27. Power Density Public Exposure Limits:** The safe limit of power density values as specified/authorized/approved by the Frequency Allocation Board (FAB) and/or Pakistan Telecommunication Authority (PTA) at public level in tower's proximity must be ensured to be maintained.
- 28. Lightning Conductor** shall be installed to avoid any eventuality due to thunderstorm.
- 29. Antenna Installation Requirements:** (1) The hazard light on top of structure/tower for the safety of aviation should be installed and;
- (2) Information about the site shall be made known by putting a plate in red color on the structure/tower. The following information shall be engraved on plate:



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- (a) Company name;
 - (b) Site ID (assigned by company);
 - (c) Height of tower (tallest mechanical structure at the site; from base of the structure and not just the tower);
 - (d) Date of installation;
 - (e) Emergency contact number (24×7); and
 - (f) Contact number of PTA,
 - (g) Contact number of nearest fire brigade
 - (h) Warning to keep the passerby or someone living in the vicinity away from the site as its prolonged exposure can hazardous and injurious to health.
- (4) The plate, mentioned in 26(2), shall be;
- (a) installed at height of five (05) feet from base of tower;
 - (b) made of stainless-steel material or an alloy of good quality and strength;
 - (c) weather resistant;
 - (d) 1'×1' (ft) in dimensions, and
 - (e) firmly fixed with at least one leg.

30. Work Practices Standards: (1) All operators/proponents shall develop a work practice manual to be displayed on the antenna sites for information.

- (2) Individuals working at antenna sites shall be trained and informed about the presence of RF energy, the potential for exposure and the steps that shall be taken to reduce their exposure.
- (3) Each exposed worker shall be asked to sign a document provided by the proponent/operator (not its contractor or sub-contractor) which clearly identifies the possible hazards and safety precautions to be taken.
- (4) All antennas shall be presumed to remain active at all times.
- (5) All proponents/operators shall take necessary preventive measures and safety precautions for the protection of their workers including the following:
 - (a) a minimum distance of ten feet (10 ft) between the antenna and their workers; and;
 - (b) a facility to power down (or shut down) the transmitters in the areas which exceed the ICNIRP's guidelines for controlled (occupational) exposures.
- (6) All operators/proponents shall ensure wearing of protective gear kit by their workers and that the workers are appropriately communicated to keep moving when working in close proximity of the site.

31. The proponent shall ensure to comply with all the instructions/directions of "Protection from Health-Related Effects of Radio Base Station Antennas Regulations, 2008".

32. The proponent/operator shall submit to this Agency, a copy of the "Compliance Certificate" along-with supporting information submitted to PTA in accordance to Regulations 4 to 6 of "Protection from Health-Related Effects of Radio Base Station Antennas Regulations, 2008".

*For recording of Power Density, the field staff may be equipped with Digital Portable Meter



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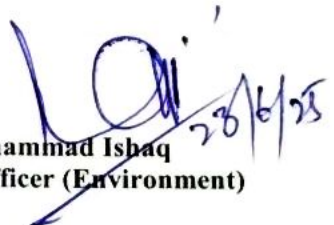
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Secretary to Govt. of Khyber Pakhtunkhwa
Climate Change, Forestry, Environment & Wildlife
Department

No. SO/ENVY/CCFE&WD/4-2/ECP-2025:

Copy for information to:

1. All members of Environmental Protection Council (EPC) Khyber Pakhtunkhwa.
2. PS To Secretary Climate Change, Forestry, Environment and Wildlife Department, Khyber Pakhtunkhwa.


Muhammad Ishaq
Section Officer (Environment)

Environmental Assessment Checklist

Section I: Project Description

File No. _____ (To be filled by KP-EPA)

Date. _____

General Information

1. Project Name or Title _____
 - i. Site ID of the Project _____
 - ii. GPS Coordinates of the Project site _____
2. Name of the Proponent/Company _____
 - i. Name of the CEO of the Company _____
 - ii. Official Address _____
 - iii. Cell/Telephone No. _____
 - iv. Email address _____
 - v. Copy of CNIC. _____
3. Name of the Focal Person/Representative of the Proponent or Company _____
 - i. Official Address _____
 - ii. Designation _____
 - iii. Cell/Telephone No. _____
 - iv. Email address _____
 - v. Copy of CNIC. _____
4. Name of the consultancy firm/ the person who conduct this Assessment _____
 - i. Official Address _____
 - ii. Designation _____
 - iii. Cell/Telephone No. _____
 - iv. Email address _____
 - v. Copy of CNIC. _____
 - vi. Educational Qualification _____
 - vii. Relevant Experience _____

Project information

5. Project Location _____
 - i. Khasra No. _____
 - ii. Village/Mouza _____
 - iii. Tehsil _____
 - iv. District _____
6. Total Area of the Project _____

- i. Covered Area _____
- ii. Open Area _____
- iii. Width of the Plot/Area _____
- iv. Length of the Plot/Area _____

7. Detail of Machinery and Equipment to be Installed:

- i. Name of the Machinery

- ii. Name of the Equipments

8. Project Alternative Sites along-with GPS Coordinates.

- i. First Site

GPS Coordinates:

[Handwritten signature]

- ii. Second Site

GPS Coordinates:

- iii. Third Site

GPS Coordinates:

9. Detail of Machinery and Equipments to be used in/during the project:

10. Height of the Tower

11. Weight of the Tower

[Handwritten signature]

12. Height of the Antennas from the Base of the Tower

13. Types of the Antennas (Directional/Omni-directional)

14. Number of the Antennas with Complete detail of each i.e., their specification and types etc.

15. Type of Tower (Lattice tower (3-sided/4-sided), monopole tower/guyed tower/stealth tower)

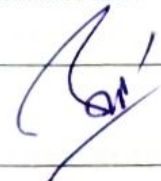
16. Range of Radio Wave Frequency emitted by tower

17. Range of Radio Wave Frequency received by tower

18. Power supply-primary/stand by

19. Detail of fuel used to include type of fuel, storage capacity and handling agreements (Gen Set)

Section II: Environmental Profile & Surrounding Area Information

1. The status proposed site for BTS Tower as per record of municipal authority is _____
(Residential area/ Commercial area/Industrial area/Agricultural land).
2. The proposed site BTS Tower is located in _____ (Rural area/ Urban area).
3. The proposed site for BTS Tower is _____ (Roof top of the building/Open space).
4. Distance of any object/building etc from the antenna of the BTS Tower is _____
_____ lying/ located horizontally in front of the antenna.
5. Distance between the workers and the antenna is _____ feet/meters.
6. Distance between the BTS Tower and the nearest madrassa/school/college/hospital etc is _____
_____ feet/meters.
7. Distance between the proposed BTS Tower and already existing nearby BTS towers (within radius) is _____ feet/meters.
8. Distance of the BTS Tower from the boundary of the building edge is _____
_____ feet/meters.
9. The height of the antennas from the ground/roof top is _____ (feet/meters).
10. The proposed BTS Tower site is located at a distance of _____ meters
from the Forest area/reserved forest area/environmentally sensitive area.
11. The proposed BTS Tower site is located at a distance of _____
meters from the nearest public places. 
12. The proposed BTS Tower site is located at a distance of _____ meters
from the water bodies.
13. The proposed BTS Tower site is located at a distance of _____ meters
from the airport.
14. The proposed BTS Tower site is located at a distance of _____ meters
from the railway station/line or Railway Property Boundary.
15. The proposed BTS Tower site is located at a distance of _____
meters from electricity distribution line/ transmission line or tower and voltage of the
line is _____.
16. The proposed BTS Tower site is located at a distance of _____ meters
from heritage/monuments/archeological site/Antiquity.
17. The distance of Gen Set from the neighbor's wall is _____ feet/meters.
18. The distance of Gen set from the Court/Office building is _____ feet/meters
19. Numbers of Towers _____ within one Kilometer radius.
20. Numbers of Houses _____ within the radius of 50 meters.

Mitigation Measures

1. Lightning conductor/other mitigation measure will be adopted for thunder storm. **Yes/No**
2. Warning light for aviation has been installed. **Yes/No**
3. National Standards of Pakistan for public and professional exposure to radiation will be complied. **Yes/No**
4. "Protection from Health Related Effects of Radio Base Station Antennas Regulations, 2008" will be complied. **Yes/No**
5. Precautionary measures will be adopted to control Accidents as result of storms and gusty winds etc. **Yes/No**
6. Individuals working at antenna sites will be trained. **Yes/No**
7. Work practice manual on the antenna site for information will be developed and displayed. **Yes/No**
8. Workers at the site will be informed about the presence of RF energy and the potential impact of exposure and safety precautions measures. **Yes/No**
9. Protective Gear kit will be provided to the workers while working in close-proximity of the site/antenna. **Yes/No**
10. All the emissions/effluents will be kept within permissible limits of National Environmental Quality standards (NEQS). **Yes/No**
11. The BTS Tower/Project is fully complied with all the limits/points/criteria mentioned in the guidelines. **Yes/No**
If the answer is "No" then mention the clauses and sub clauses.
12. Is there any complaint against project. **Yes/No**
13. If yes, what is the nature of complaint _____
14. Has the issues/complaint has been resolved. **Yes/No**

Section III: Environmental Management Plan.

1. Constructional Stage/Phase:
2. Operational Stage/Phase:

Section IV: Documentation

1. Location plan of the Project
2. Site plan of the project.
3. Landownership Documents.
4. Copy of Lease or Rental Agreement of land or property.

5. Copy of partnership deed.
6. Map or Layout of Building including indoor location of placing generator.
7. Written statement/certification regarding availability of tower for use by other Telecommunication Service providers.
8. TORs of Compensation/Compensations policy (in case of loss of life or property).
9. License from Pakistan Telecommunication Authority (PTA).
10. Copy of NOC from Concerned TMA/Authority
11. Copy of NOC from Irrigation Department (if applicable)
12. Copy of NOC from Railway Authorities (if applicable)
13. Copy of NOC from Civil Aviation Authority (if applicable)
14. Copy of NOC from WAPDA (Power Division) (if applicable)
15. Copy of NOC from Forest Department (if applicable)
16. Structural Stability Certificate from TMA/concerned authority (if proposed site is on roof top).
17. Completion Certificates by the proponent and an Engineer/Supervisor etc.
18. Occupation/Use Certificate from TMA.
19. Security Plan.
20. Copy of CNIC of the Proponent.
21. Copy of CNIC of the Focal Person/Representative of the Proponent or Company.
22. Copy of CNIC Consultancy firm/ the person who conduct the Assessment.
23. Legal documents of technology transfer authority of the Company
24. Compliance/Insurance Certificate about the safe Electromagnetic Radiation exposure limits as per ICNIRP's guidelines.
25. Copy of MOU signed in respect of sharing of infrastructure

VERIFICATION

I do solemnly affirm and declare that the information given above and contained in the attached documents are true and correct to the best of my knowledge and belief.

Name & Designation of Proponent or authorized agent _____

Postal address of the Proponent: _____

Signature of Proponent: _____

Date: _____

Office Stamp or Seal: _____



***Please Note, photocopies attached should be duly attested.**



National Environmental Quality Standards for Ambient Noise

Effective from 01 October, 2021			
Limit in dB(A)Leq*			
#	Category of Area/Zone	Day	Night
1.	Residential Area (A)	50	45
2.	Commercial Area (B)	60	55
3.	Industrial Area (C)	75	65
4.	Silence Zone (D)	45	45

Source: NEQS notified on 26-11-2010, Pak, EPA,

Note:

- Silence Zone:** Zones which are declared as such by competent authority. An area comprising not less than 100 meters around courts and office
- Mixed categories** of areas may be declared as one of the four above mentioned categories by Competent Authority.
- * dB(A)Leq: Time weighted average of the level of sound in decibels on scale A which is relatable to human hearing.
- The lowest standards or the standards set for night shift shall be followed.

NOISE EMISSION STANDARD FOR GEN SET

Sr. No.	Parameter	Source of emission	Standard
1.	Noise	Gen Set	Noise level not to exceed 65 dB(A) at a distance of 1 meter from enclosure surface of Gen Set.

National Environmental Quality Standard for Smoke

Sr. No.	Parameter	Source of emission	Standard
1.	Smoke Opacity	Gen Set	Smoke opacity not to exceed 40% or 2 Ringelmann Scale or equivalent smoke number

- * (e) "Decibels" means the time weighted unit of measurement of noise in decibels on scale A which is relatable to human hearing expressed as dB(A)Leq.



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FORM-A

COMPLETION CERTIFICATE BY ARCHITECT, ENGINEER etc

Certified that the development, re-development of land or construction reconstruction or alteration or addition of building or erection of BTS tower or pole structure or work has been supervised by me and has been completed as per Constructional Environmental Approval issued by KP-EPA, Tracking No. _____ dated _____.

(Signature)

Name and Address of Architect, or Building Designer or Engineer or Supervisor

Reg No. _____

Place: _____

No. _____

Date: _____



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FORM-B

COMPLETION CERTIFICATE BY THE OWNER

Certified that the development, re-development of land or construction reconstruction or alteration or addition of building or erection of BTS tower or pole structure or work has been completed as per Constructional Environmental Approval issued by KP-EPA, Tracking No. _____ dated _____.

(Signature)

Name and Address of the Owner

Place: _____

No. _____

Date: _____

Director General
Environmental Protection Agency,
Khyber Pakhtunkhwa.

No. SO/ENV/CCFE&WD/4-2/ECP-2025:

Copy for information to the:

- PS To Secretary Climate Change, Forestry, Environment and Wildlife Department, Khyber Pakhtunkhwa.