

Pakistan Environmental Protection Agency (Pak-EPA)

Checklist

BTS Tower Environmental Approval

Proponents must submit this along with and supporting documents. All items must be addressed; incomplete submissions may lead to rejection.

The checklist is structured into sections for clarity. Use "Yes/No", "Attached/Not Attached", or "Mentioned/Not Mentioned" as appropriate, with explanations where required.

Sr. No.	Section/Parameter	Details Required	Status/Remarks
1	General Information		
1.1	Name, address, phone/fax, email, and cell number of the proponent/company	Full details of the project owner or operator.	
1.2	Name, address, phone/fax, email, and cell number of contact person/authorized agent	Include designation and CNIC copy.	
1.3	Name and location of the BTS Tower and Gen Set (if applicable)	Include site ID, GPS coordinates, and khasra/village/mouza/tehsil/district.	
1.4	Status of the site as per record of municipal/local authority (residential, commercial, industrial, agricultural, or mixed)	Attach proof from relevant authority (e.g., TMA/Union Council).	
1.5	Existing land use and total area of the project (covered/uncovered)	Describe current use; attach land ownership documents (e.g., fard, registry).	
1.6	Copy of lease/rental agreement or partnership deed for land/property	Attested copy required.	
1.7	Legal documents of technology transfer authority/company registration	Include PTA license, ICNIRP compliance certificate, and any MoU for infrastructure sharing.	
1.8	Emergency contact number (24/7) and nearest fire brigade details	For site safety.	

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2	Project Description		
2.1	Total cost of the project	Mention in PKR.	
2.2	Height and weight of the tower	From base to top, including antennas.	
2.3	Type/category of tower	e.g., Lattice (3-sided/4-sided), monopole, guyed, stealth; directional/omni-directional antennas.	
2.4	Number of antennas with complete details (specification, types)	Include range of radio wave frequency emitted/received.	
2.5	Mode of service/technology used	e.g., GSM, CDMA, 3G/4G/5G, wireless, Wi-Fi, broadband.	
2.6	Power supply details (primary/standby)	Include type of fuel for Gen Set, storage capacity, handling arrangements, and power density limits (as per FAB/PTA/ICNIRP).	
2.7	Gen Set details (if installed)	Rating capacity (KVA), measures to mitigate noise/vibration/smoke (e.g., rubber padding, silencer, canopy with soundproof walls).	
2.8	Shared use of tower	If shared, provide details of minimum three service providers, affidavit from telecom company, and impact on EMR reduction.	
2.9	Map/layout of building/site	Including indoor location of generator(s), pictorial views, and site plan.	

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3	Environmental Profile and Surrounding Area Information		
3.1	Distance from sensitive receptors (e.g., hospital, school, madrasa, court, silence zone)	Minimum 100 meters (or as per NEQS); provide measurements.	
3.2	Distance from residential areas/public places/houses	Number of houses within 50-meter radius; minimum safe distance from radiating antenna (25-30 feet).	
3.3	Distance from neighboring walls/boundary edge	Gen Set at least 10 feet; tower from building edge as per guidelines.	
3.4	Distance from heritage/national monuments/archaeological sites/antiquities	100-200 meters; NOC from relevant department if closer.	
3.5	Distance from water bodies/rivers/irrigation channels/forest areas	30-50 meters; NOC from Irrigation/Forest Department if applicable.	
3.6	Distance from airport/airport authority areas	NOC from CAA; mandatory if within radius.	
3.7	Distance from railway tracks/station or railway property	30 meters; NOC from Railway Authorities.	
3.8	Distance from high-voltage electricity distribution/transmission lines	Minimum safe distance; voltage details.	
3.9	Alternative sites considered (at least two)	Provide GPS coordinates and reasons for selection/rejection.	

Sr. No.	Section/Parameter	Details Required	Status/Remarks
4	Impacts and Mitigation Measures		
4.1	Profile of environmental impacts (construction/operational phase)	e.g., Noise, smoke opacity, EMR, solid waste generation/disposal plan.	
4.2	Profile of social impacts (if any)	e.g., Complaints from locals; resolution details.	
4.3	Measures for noise and smoke emission compliance	Levels measured (if installed); must meet NEQS (e.g., noise ≤ 65 dB(A) at 1m, smoke $\leq 40\%$ opacity or 2 Ringlemann).	
4.4	Health-related effects mitigation	Compliance with "Protection from Health-Related Effects of Radio Base Station Antennas Regulations, 2008"; work practice manual for RF exposure.	
4.5	Safety measures (e.g., lightning conductor, aviation warning light, protective gear for workers)	Yes/No with details; include training for workers on RF exposure.	
4.6	Waste management plan (solid waste, fuel storage)	During construction/operation.	
4.7	Security plan and damage liability	TORs for compensation in case of loss of life/property.	
4.8	Compliance with NEQS for ambient noise/smoke/power density	Affidavit for adherence; field measurements if applicable.	

Sr. No.	Section/Parameter	Details Required	Status/Remarks
5	Documentation and Certifications		
5.1	Undertaking/affidavit for compliance (as per regulations)	Signed by proponent; include verification statement.	
5.2	NOCs from relevant authorities	e.g., TMA/Local Govt, PTA, Irrigation, Civil Aviation, Railway, WAPDA, Forest, Heritage Dept.	
5.3	Structural stability certificate	From TMA/concerned authority or engineer/supervisor.	
5.4	Completion certificate (Form A/B if applicable)	For construction/re-development.	
5.5	Compliance insurance certificate for electromagnetic radiation limits	As per ICNIRP guidelines.	
5.6	Written statement/certification on tower availability for use by other telecom providers	To promote sharing.	
5.7	Any court case or complaint against the project	Details and resolution status.	
6	<p>Verification</p> <p>Solemn affirmation that all information is true and correct. Signed by proponent/authorized agent with date, stamp/seal, and witnesses.</p> <p style="text-align: right;">Signature of Proponent: _____</p>		

Notes:

- All supporting documents must be attached. Incomplete checklists shall not be processed.
- Submission & Review: The complete case shall be submitted to the Director (EIA/Monitoring), Pak-EPA, for review.
- Fee: A fee amounting PKR 10,000/- should be submitted in the form of a **Bank Draft or Pay Order** in favor of “Director General Pakistan Environmental Protection Agency”
- Decision Timeline: The Director (EIA/Monitoring) shall decide the case on the basis of this Checklist within 30 days of submission.
- Conditions of Approval: Compliance with NEQS is mandatory. Installation of BTS Towers in prohibited locations (e.g., open residential areas, or within 100 meters of sensitive receptors) is not permitted. Shared infrastructure is encouraged.
- This checklist-based approval mechanism shall remain applicable until the finalization of separate regulations or incorporation of BTS Tower provisions into the revised IEE/EIA Regulations, 2000.