

APPLICATION FOR AUTHORISATION IN RESPECT OF SETTING UP/MODIFICATION OF STATION.

Please provide ALL of the following information

| SECTION 1 OPERATOR DETAILS |
|------------------------------|
| 1.1 Name of Operator:- |
| 1.2 Correspondence Address:- |
| 1.3 Telephone No:- |
| 1.4 Fax No:- |
| 1.5 Email:- |

Note I: Please fill hereunder sections for EACH antenna on the site.

Note II: For bracketed numbers please SEE instructions/definitions below, as appropriate

Note III: Please ATTACH a copy of the antenna radiation patterns (horizontal & vertical) in the format provided at Annex 1

Note IV: Please check only one of the boxes, where applicable

| SECTION 2 APPLICATION DETAILS |
|--|
| 2.1 Specify whether:- <input type="checkbox"/> set-up of new station <input type="checkbox"/> modification of existing station |
| 2.2 Specify licence number under which station is being set up or modified:- |

| SECTION 3 STATION CHARACTERISTICS |
|---|
| 3.1 Station ID:- |
| 3.2 Class of station:- <input type="checkbox"/> FB Base station (transmitting station in the land mobile service) <input type="checkbox"/> FL Land station (transmitting station in the mobile service) <input type="checkbox"/> FX Fixed station (transmitting station in the fixed service) |
| 3.3 Location Address:- |
| 3.4 Geographical Coordinates:- |
| 3.5 Height above sea level (m):- |
| 3.6 Sector No. (where applicable):- |
| 3.7 Type of installation:- <input type="checkbox"/> Ground mounted <input type="checkbox"/> Tower mounted <input type="checkbox"/> Rooftop* mounted *Specify height (m) of building if installation is rooftop mounted:- |

| SECTION 4 EQUIPMENT DETAILS |
|---------------------------------------|
| 4.1 Make & model:- |
| 4.2 Type approval reference:- |
| 4.2 Max mean power to antenna (dBm):- |
| 4.3 EIRP (dBm):- |
| 4.4 Sensitivity (dBm):- |
| 4.5 Noise figure (dB):- |

| SECTION 5 FREQUENCY ⁽¹⁾ | | | | | | |
|---|---|--|--|--|--|----|
| 5.1 Assigned frequency(ies) or ARFCN ⁽²⁾ (as appropriate)(MHz):- | | | | | | |
| 5.2 Receive frequency(ies)(MHz):- | | | | | | |
| 5.3 Class of emission:- | | | | | | |
| 5.4 Necessary bandwidth(MHz):- | | | | | | |
| 5.5 Channel separation(MHz):- | | | | | | |
| 5.6 Nature of service:- | <input type="checkbox"/> CO Station open to official correspondence exclusively <input type="checkbox"/> CP Station open to public correspondence <input type="checkbox"/> CR Station open to limited public correspondence <input type="checkbox"/> CV Station open exclusively to correspondence of a private agency <input type="checkbox"/> OT Station open exclusively to operational traffic of the service concerned | | | | | |
| 5.7 Operation hours:- from | | | | | | to |

(1) Please provide information, in the same format, on a separate sheet, if space not adequate.

(2) ARFCN is the Absolute Radio Frequency Channel Number.

| SECTION 6 ANTENNA CHARACTERISTICS | |
|--|------------|
| 6.1 Azimuth of maximum radiation from Grid North (deg):- | |
| 6.2 Electrical tilt (deg):- | |
| 6.3 Mechanical tilt (deg):- | |
| 6.4 Total tilt α (deg):- | |
| 6.5 Antenna height from ground/rooftop ⁽³⁾ to centre of radiation (m):- | |
| 6.6 Make & model:- | |
| 6.7 Class of antenna:- | |
| 6.8 Polarization:- | |
| 6.9 Antenna Gain (dBi):- | |
| 6.10 Antenna Directivity :- | |
| 6.11 Horizontal Beamwidth (deg):- | |
| 6.12 Vertical Beamwidth (deg):- | |
| 6.13 Frequency range:- from | MHz to MHz |
| 6.14 Cross Polar Discrimination (dB):- | |
| 6.15 A_{sl} ⁽⁴⁾ (dB):- | |
| 6.16 Insertion loss ⁽⁵⁾ (dB):- | |

(3) Please **delete** as applicable.

(4) A_{sl} is the maximum side-lobe amplitude with respect to the maximum.

(5) Insertion loss is $10\log(P_r/P_t)$ where is P_r power input at antenna port and P_t is power at transmitter output port.

SECTION 7 OTHER SITE DETAILS

| 7.1 Adjacent Building # | Distance from site along direction of propagation (m) | Height of adjacent building above ground level (m) |
|-------------------------|---|--|
| | | |
| | | |
| | | |
| | | |
| | | |

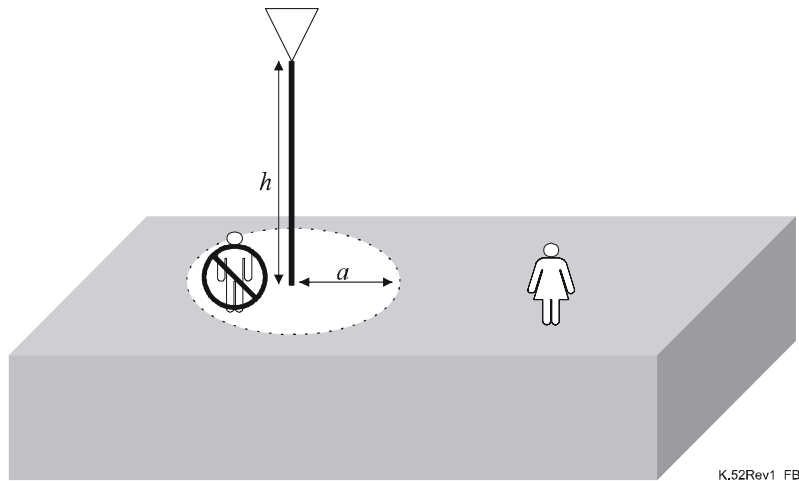


Figure 7A – Illustration of circular exclusion area

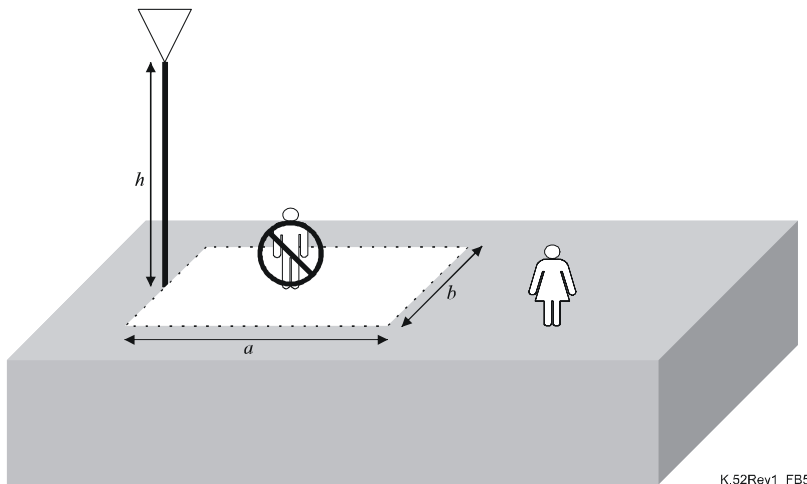


Figure 7B – Illustration of rectangular exclusion area

7.2 Please refer to Figure 7A and Figure 7B, as applicable.

Is there an exclusion area associated with the antenna? Yes No

7.3 If yes, indicate whether exclusion area is: Circular Rectangular

7.4 For circular area, state radius **a** (m) surrounding antenna:-

7.5 For rectangular area, state dimensions of rectangle in front of antenna in terms of **a** (m) x **b** (m) :- x

SECTION 8 DECLARATION OF OPERATOR

8.1 I hereby declare that the station has been evaluated to comply with limits for human exposure to electromagnetic fields in accordance with ITU-T Recommendation K.52 and has been found to be

inherently compliant *normally compliant* *provisionally compliant**

8.2* In case ***provisionally compliant***, please specify the mitigation techniques to be implemented

.....
.....
.....

8.3 I hereby declare that all information contained herein is correct and accurate.

Signature:-

Signatory's Name:-

Designation:-

Date:-

Annex 1: Antenna Radiation Pattern E-plane and H-plane

| ψ/θ | Attn_E(Ψ) | Attn_H(θ) | ψ/θ | Attn_E(Ψ) | Attn_H(θ) | ψ/θ | Attn_E(Ψ) | Attn_H(θ) |
|---------------|------------------|--------------------|---------------|------------------|--------------------|---------------|------------------|--------------------|
| 0 | | | 120 | | | 240 | | |
| 1 | | | 121 | | | 241 | | |
| 2 | | | 122 | | | 242 | | |
| 3 | | | 123 | | | 243 | | |
| 4 | | | 124 | | | 244 | | |
| 5 | | | 125 | | | 245 | | |
| 6 | | | 126 | | | 246 | | |
| 7 | | | 127 | | | 247 | | |
| 8 | | | 128 | | | 248 | | |
| 9 | | | 129 | | | 249 | | |
| 10 | | | 130 | | | 250 | | |
| 11 | | | 131 | | | 251 | | |
| 12 | | | 132 | | | 252 | | |
| 13 | | | 133 | | | 253 | | |
| 14 | | | 134 | | | 254 | | |
| 15 | | | 135 | | | 255 | | |
| 16 | | | 136 | | | 256 | | |
| 17 | | | 137 | | | 257 | | |
| 18 | | | 138 | | | 258 | | |
| 19 | | | 139 | | | 259 | | |
| 20 | | | 140 | | | 260 | | |
| 21 | | | 141 | | | 261 | | |
| 22 | | | 142 | | | 262 | | |
| 23 | | | 143 | | | 263 | | |
| 24 | | | 144 | | | 264 | | |
| 25 | | | 145 | | | 265 | | |
| 26 | | | 146 | | | 266 | | |
| 27 | | | 147 | | | 267 | | |
| 28 | | | 148 | | | 268 | | |
| 29 | | | 149 | | | 269 | | |
| 30 | | | 150 | | | 270 | | |
| 31 | | | 151 | | | 271 | | |
| 32 | | | 152 | | | 272 | | |
| 33 | | | 153 | | | 273 | | |
| 34 | | | 154 | | | 274 | | |
| 35 | | | 155 | | | 275 | | |
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| 37 | | | 157 | | | 277 | | |
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| 39 | | | 159 | | | 279 | | |
| 40 | | | 160 | | | 280 | | |
| 41 | | | 161 | | | 281 | | |
| 42 | | | 162 | | | 282 | | |
| 43 | | | 163 | | | 283 | | |
| 44 | | | 164 | | | 284 | | |
| 45 | | | 165 | | | 285 | | |
| 46 | | | 166 | | | 286 | | |

| ψ/θ | Attn_E(Ψ) | Attn_H(θ) | ψ/θ | Attn_E(Ψ) | Attn_H(θ) | ψ/θ | Attn_E(Ψ) | Attn_H(θ) |
|---------------|------------------|--------------------|---------------|------------------|--------------------|---------------|------------------|--------------------|
| 47 | | | 167 | | | 287 | | |
| 48 | | | 168 | | | 288 | | |
| 49 | | | 169 | | | 289 | | |
| 50 | | | 170 | | | 290 | | |
| 51 | | | 171 | | | 291 | | |
| 52 | | | 172 | | | 292 | | |
| 53 | | | 173 | | | 293 | | |
| 54 | | | 174 | | | 294 | | |
| 55 | | | 175 | | | 295 | | |
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| 57 | | | 177 | | | 297 | | |
| 58 | | | 178 | | | 298 | | |
| 59 | | | 179 | | | 299 | | |
| 60 | | | 180 | | | 300 | | |
| 61 | | | 181 | | | 301 | | |
| 62 | | | 182 | | | 302 | | |
| 63 | | | 183 | | | 303 | | |
| 64 | | | 184 | | | 304 | | |
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| 76 | | | 196 | | | 316 | | |
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| 78 | | | 198 | | | 318 | | |
| 79 | | | 199 | | | 319 | | |
| 80 | | | 200 | | | 320 | | |
| 81 | | | 201 | | | 321 | | |
| 82 | | | 202 | | | 322 | | |
| 83 | | | 203 | | | 323 | | |
| 84 | | | 204 | | | 324 | | |
| 85 | | | 205 | | | 325 | | |
| 86 | | | 206 | | | 326 | | |
| 87 | | | 207 | | | 327 | | |
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| 90 | | | 210 | | | 330 | | |
| 91 | | | 211 | | | 331 | | |
| 92 | | | 212 | | | 332 | | |
| 93 | | | 213 | | | 333 | | |
| 94 | | | 214 | | | 334 | | |

| ψ/θ | Attn_E(Ψ) | Attn_H(θ) | ψ/θ | Attn_E(Ψ) | Attn_H(θ) | ψ/θ | Attn_E(Ψ) | Attn_H(θ) |
|---------------|------------------|--------------------|---------------|------------------|--------------------|---------------|------------------|--------------------|
| 95 | | | 215 | | | 335 | | |
| 96 | | | 216 | | | 336 | | |
| 97 | | | 217 | | | 337 | | |
| 98 | | | 218 | | | 338 | | |
| 99 | | | 219 | | | 339 | | |
| 100 | | | 220 | | | 340 | | |
| 101 | | | 221 | | | 341 | | |
| 102 | | | 222 | | | 342 | | |
| 103 | | | 223 | | | 343 | | |
| 104 | | | 224 | | | 344 | | |
| 105 | | | 225 | | | 345 | | |
| 106 | | | 226 | | | 346 | | |
| 107 | | | 227 | | | 347 | | |
| 108 | | | 228 | | | 348 | | |
| 109 | | | 229 | | | 349 | | |
| 110 | | | 230 | | | 350 | | |
| 111 | | | 231 | | | 351 | | |
| 112 | | | 232 | | | 352 | | |
| 113 | | | 233 | | | 353 | | |
| 114 | | | 234 | | | 354 | | |
| 115 | | | 235 | | | 355 | | |
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