Recommended LO settings for the uGMRT observations

This document is for the users planning to make 400 / 200 / 100 MHz bandwidth full-band (and NOT sub-band!) continuum observations at (i) 1050-1450 MHz, L-band (band-5), (ii) 550-850 MHz (band-4) and (iii) 250-450 MHz (band-3).

Important note for the operators:

- 1. Stokes parameters to be selected as either "Total Intensity" or "Full Stokes".
- 2. Observers requesting any other LO settings, observatory is not responsible for quality of data, e.g., drop in cross-correlation, etc.
 - 1. In such cases, non-recommended use of LO settings, operators, please do inform the users of the consequences, and include the note, "non-recommended use of LO settings, observatory is not responsible for the quality of data" in the observations-log.

Band-5 (1050-1450 MHz):

LO = 1460 MHz

bandwidth = 400 / 200 / 100 MHz

no. of spectral channels = 2k / 4k / 8k / 16k

Side-band FLAG to be used is LSB.

Band-4 (550-850 MHz):

LO = 550 MHz

bandwidth = 400 / 200 / 100 MHz

no. of spectral channels = 2k / 4k / 8k / 16k

Side-band FLAG to be used is USB.

Note: Here the usable part of the band is from 550 MHz (= channel-0) to 850 MHz.

Band-3 (250-500 MHz):

LO = 500 MHz

bandwidth = 400 / 200 / 100 MHz

no. of spectral channels = 2k / 4k / 8k / 16k

Side-band FLAG to be used is LSB.

Note: Here the usable part of the band is from 500 MHz (= channel-0) to 250 MHz.