

# **Thesis title: PAMBE Growth and Characterization of Strained III-Nitride Barrier Heterostructures on Silicon**

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**Changes made based on the suggestions made by the reviewers.**

**1. In P.53 is the definition of band-gap correct?**

Thank you for pointing this mistake. It has been corrected in page no.53.

**2. Please check the dimensions of the equations in p-53 and 54.**

Thank you for pointing this mistake. It has been corrected in page no. 53and 54.

**3. Inset in Fig. 4.9 is for S1 or S2?**

Inset in Fig. 4.9 is for S1.  $E_2^{high}$  mode Raman peak for AlGa<sub>N</sub> and GaN layers of sample S1 is shown in the inset. This has been mentioned in modified thesis in page no. 80.

**4. The scales and contrast do not show up in Fig. 4.15(b).**

The Fig. 4.15 (b) is replaced with good FESEM image, which has a good colour contrast in page no. 91.

**5. The typographical errors are found out and rectified.**