PLATE-I. PMC's showing meiotic abnormalities in
the treated population of chickpea

Fig. 1 8 Bivalents at Metaphase-I.
Fig. 2 Univalents and trivalent at Metaphase-I.
Fig. 3 Tetravalent formation alongwith stickiness at Metaphase-I.
Fig. 4 Polar Metaphase-I.
Fig. 5 Precocious separation of a bivalent at Mataphase-I.
Fig. 6 Normal Anaphase-I.
Fig. 7 Lagging chromosome at Anaphase-I.
Fig. 8 Bridge formation at Anaphase-I.
Fig. 9 Double bridge formation alongwith cytomixis at Anaphase-I.
Fig. 10 Normal Anaphase-II.
Fig. 11 Laggards and unequal 9/7 Anaphase-II separation.
Fig. 12&13 Broken and multiple bridge formation respectively at Anaphase-II.
Fig. 14 Bridges and cytomixis between multiple PMC's at Anaphase-II.
Fig. 15 Normal Telophase-II.
Fig. 16 Micronuclei and disturbed polarity at telophase-II.
Plate–II. Plant type mutants:

Fig. 1. A control plant of variety Avrodhi
Fig. 2. A tall mutant.
Fig. 3. A dwarf mutant
Fig. 4. A compact mutant
Plate–III. Plant type mutants:

Fig. 1. A control plant of variety BG-256
Fig. 2. A prostrate (trailing) mutant
Fig. 3. A narrow leaved and non-flowering mutant
Fig. 4. A sterile II mutant
Plates-IV. Plant type, pod and flowering mutants:

Fig. 1. A control plant of variety Avrodhi
Fig. 2. A giant mutant
Fig. 3&4. Pods of control plant and giant mutant respectively
Fig. 5. A flower of control plant
Fig. 6&7. Flowers with reduced and elongated pedicels respectively
Fig. 8. A supergigas mutant
Fig. 9. A white flowered mutant
Plate-V. Leaf mutants:

Fig. 1. Control twig showing serrate leaves
Fig. 2. Non-serrate leaf
Fig. 3. Apinate leaf
Fig. 4. Gigas leaf
Fig. 5. Supergigas leaf
Plate-VI. Leaf mutants:

Fig. 1. ‘Bouquet’ mutant
Fig. 2. Elongated rachis
Fig. 3. Alternifolia leaf
Fig. 4. Close pinnae leaf
Plate–VII. High yielding mutants isolated in variety Avrodhi:

Fig. 1. A control plant

Fig. 2. A high yielding semidwarf and bushy mutant (0.2% EMS)

Fig. 3. A high yielding bushy and early maturing mutant (0.3% HZ)
Plate–VIII. High yielding mutants isolated in variety BG-256:

Fig. 1. A control plant

Fig. 2. A high yielding bushy mutant with increased number of branches and pods (0.02% HZ)

Fig. 3. A high yielding mutant possessing increased number of pods per branch (0.02% SA)

Fig. 4. A semidwarf high yielding and late maturing mutant (0.03% SA)
Plate – IX. Seed mutants:

Fig. 1. Control seeds of var. Avrodhi
Fig. 2. Bold seeds
Fig. 3. Flat and elongated seeds
Fig. 4 & 5. ‘Close up’s of figs. 1 & 2 respectively.
Fig. 6. Control seeds of var. BG-256
Fig. 7. Small seeds
Fig. 8. Shrivelled seeds
Fig. 9. Round and smooth seeds.