

The quality system is followed in 4 sections in Navitas solar:

1. Incoming Quality Inspection
2. In process Quality Inspection
3. Final Quality Inspection
4. Machine Validation

INCOMING QUALITY INSPECTION

All raw materials are inspected as per Quality Plan of Navitas Solar. The materials are checked for dimensions, Specifications, Quantity, weight, visual as per criteria laid out in Quality Plan of material. The following material are inspected whenever they arrive in the plant as per criteria laid out in Quality Plan:

EVA, Glass, Cell, Backsheet, Ribbon, Busbar, Frame, Junction box, Sealant, Labels, Packing Boxes, wooden pallets

IN PROCESS QUALITY INSPECTION

The product during manufacturing is inspected at various stages on line for various parameters as per criteria laid out in Quality Plan. These are the stringent inspections performed at various stages so that product produces if of Premium Quality. The following inspections are performed on Product during manufacturing as per Quality Plan:

1. Visual Glass Inspection for Spots etc .
2. Cell Testing
3. Visual inspection of cells
4. EVA and backsheet for dimensions
5. Ribbon Pull Test
6. Gap between Cells
7. Gap between strings
8. Gap between cells and Glass side edge
9. Gap between cells and Glass top edge
10. String Polarity
11. Bus Bar Location w.r.t. Junction box terminal
12. IV testing at Lay up
13. EL test before Lamination
14. Visual Inspection before Laminator
15. Gap between Bus bars
16. Gap between Busbar and cells
17. Visual Inspection after Lamination
18. Frame Inspection after fitment
19. Junction Box Assembly Inspection
20. Electrical Parameters of Modules
21. Leakage current at high voltage
22. IR at high voltage
23. Wet leakage test
24. Module visual Inspection
25. Packing Inspection
26. Gel Test
27. Back sheet Pull test

FINAL QUALITY INSPECTION

The Product is inspected before dispatch to customers for visual inspection, packing and electrical parameters. After stringent Quality inspection solar modules are dispatched to customers.

MACHINE VALIDATION

The sun simulator and High Voltage equipment are calibrated in every shift so that machine performs all the testing in accurate manner and product is of specified parameters.