,	- TUAYALIV	-
1	PAGE NO.:	
۱	DATE:	1
L		

Assignment -11

21BCE10072 Mangesh Jaybhare

Introduction

Steriolithography (SLA) is a type of 3p printing technology that uses a loser to care liquid resin into solid objects layer by layer. The laser beam is directed onto the surfaces of the resin which is contained in a vat, hardening the resin into the desired shape. The process repeats until the entire object is created. SCA Technology is known for producing highly detailed and accurate ports, but it also has some limitations such as cost of material and the fact that it requires post-precessing to remove support structures and ensure that the surface finish is smooth.

1 Pre-processing-The 8D model is sliced into thin layers & the point data is sent to the BP pointer.

2) Rosin Vot preparation - The liquid photopolymer resin is poured

into a transparent vat.

Layer formation - The laser is directed into surface of the resin, curing and hardening it into a solid shape. The build platform then lowers by the thickness of one layer, and the process repeats

Object formation: - The laser continues to build the object

layer by layer until the entire object is complete

(8) post processing - The Anished object is removed from the resin vox and undergoes additional steps to remove access resin and support surface structures, as well as to improve the surface finish