150MW Lamination Drawing

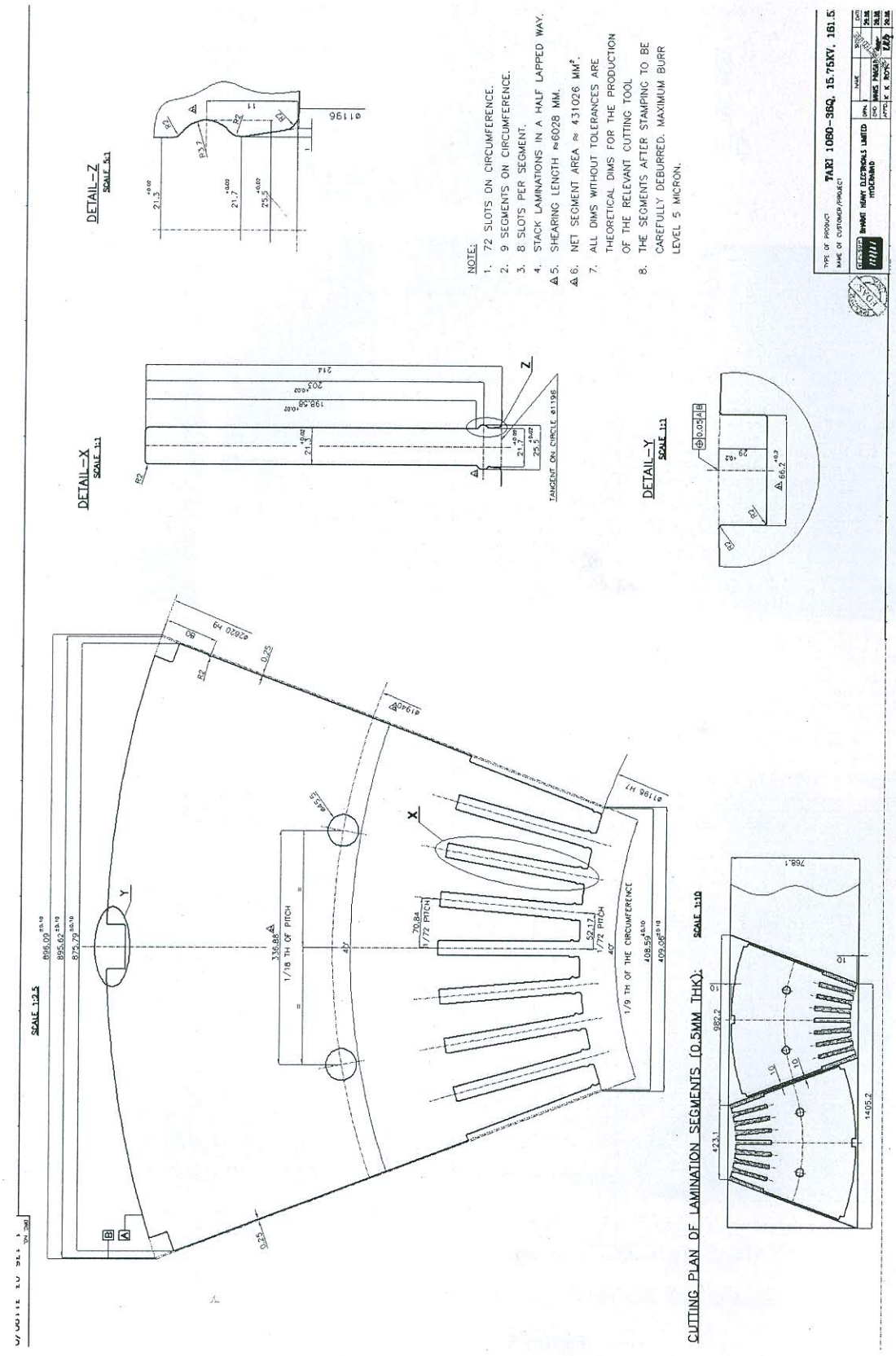


Figure 6

270MW Lamination Drawing

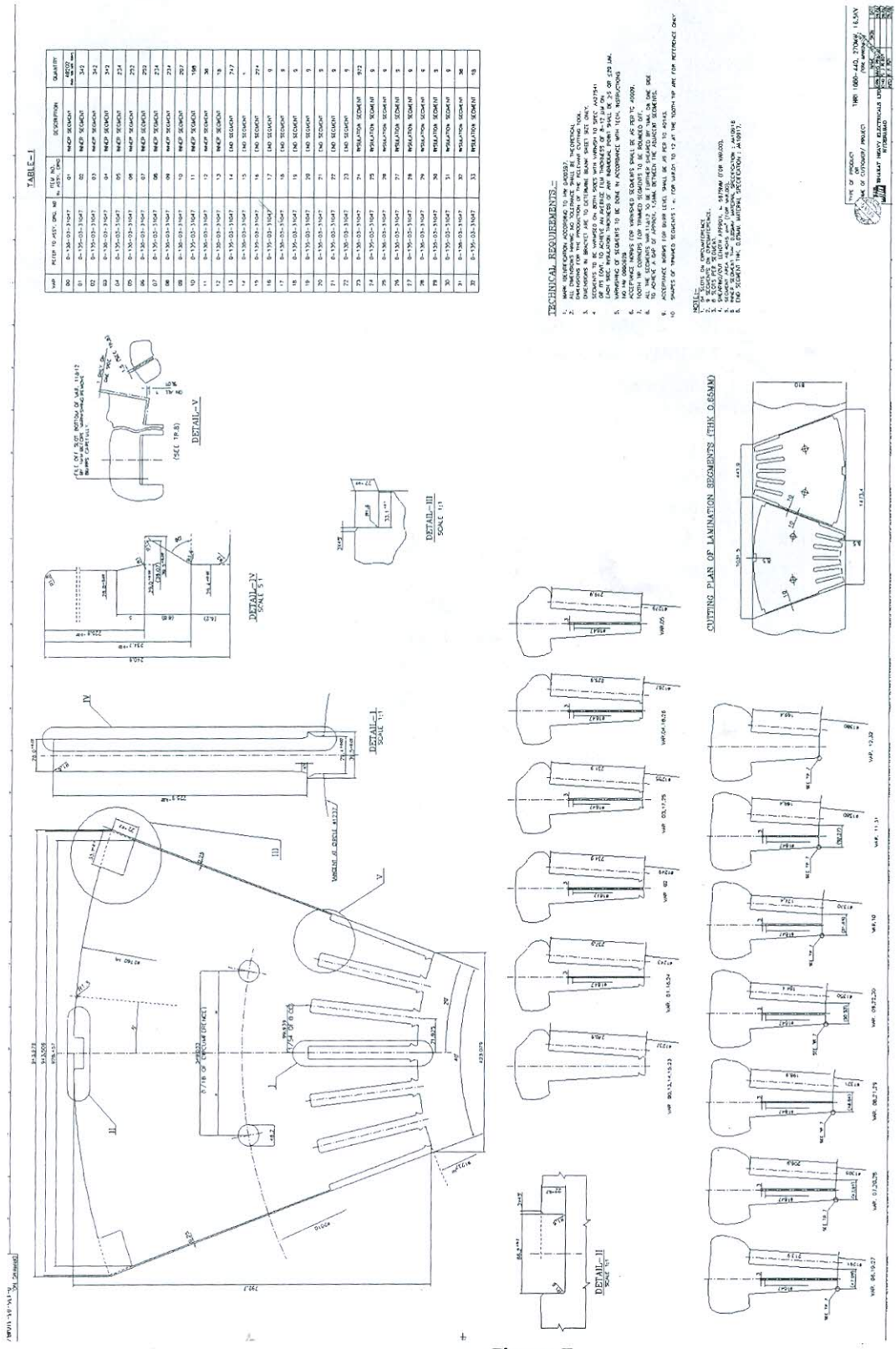
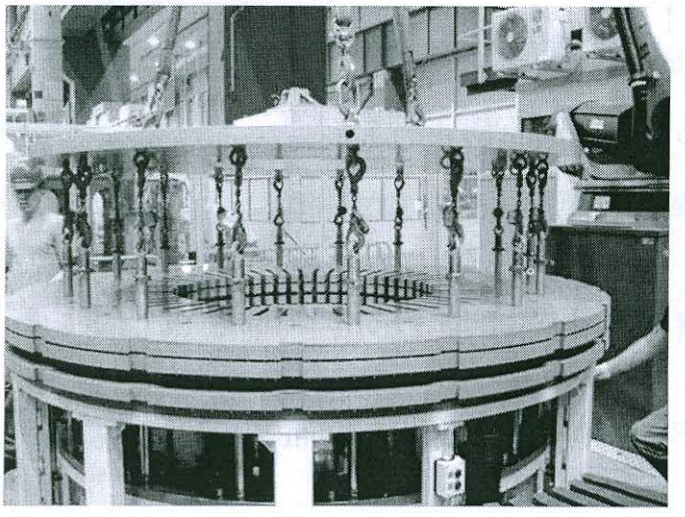
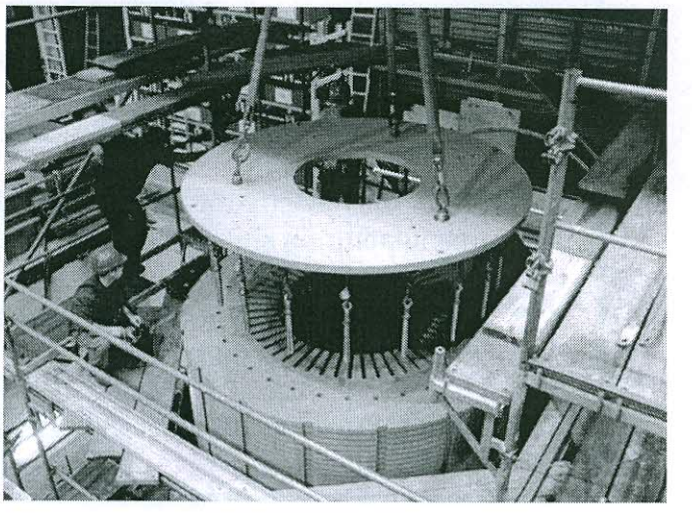


Figure 7

3. Specification for lifting and transporting mechanism for 270MW and 150MW laminations

Description: After the laminations are assembled on a assembly table to a desired stack height, the mandrel table is lowered and entire stack is lifted and transported to main assembly area by crane using the 'lifting pins'. In main assembly area, transported stacks are put one above another to the required height of generator.

SR. No.	DESCRIPTION	BHEL Specification	Vendor Specification/Remark
1	**Scope**	To design, manufacture and supply 1 lifting plates (common for 270MW laminations and 150MW laminations) and lifting pins including chains and hooks similar to figure shown below. The figure is representative and vendor is free to evolve another concept.	
2	**Supporting Weight**	The lifting pin/mechanism should be able to support entire weight of assembled laminations and should make sure that the laminations do not become loose during transportation. The sliders should be able to 'slide in' while unloading the stack and 'slide out' while loading the stack.	
3	**No. of lifting pins**	If the concept of lifting pins is used, two sets of lifting pins - One set of 18 lifting pins for 270MW laminations and another set of 18 lifting pins for 150MW laminations will be required. At a time, only one set of lifting pins will be used. Suitable provision shall be made on the lifting plate to use only one set.	
4	**Material**	a. Lifting Plate: MS b. Lifting Pins: As specified for mandrel.	
5	**Surface Finish**	a. Lifting Plate: Vendor to specify b. Lifting Pins: High grade stainless steel finish	

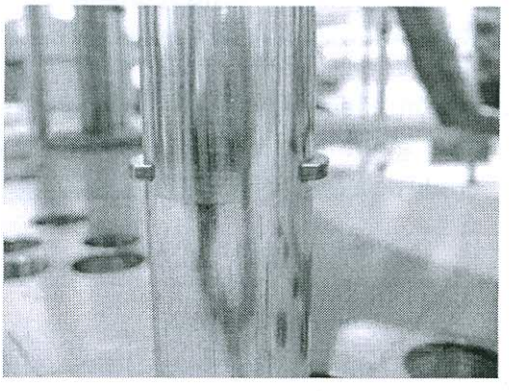


Figure 8