

TOWER CRANE DISMANTLING WITH DERRICK

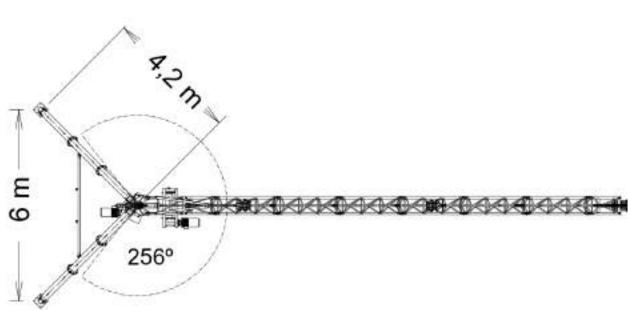
JASO 1920

For Enquiry – K. Abhisek +91 7702167778

JASO 1920 DERRICK







DERRICK IN ACTION

TOP VIEW



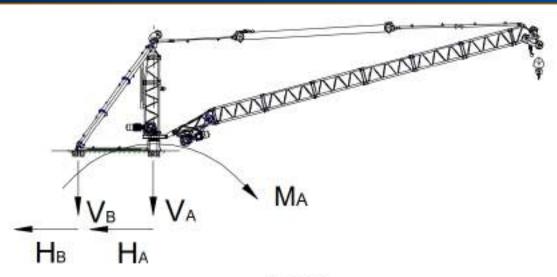
DERRICK DATASHEET

CARGAS / LOADS / CHARGES / LASTEN / HAГРУЗКИ / الأحمال J1920.DC						
e	المحال	TD/2R (kg)	Cargas máximas / Maximum loads	s / Charges maximales / Höchstlasten / Ma TD/2R	أقصى حمولة/ ксимальные нагрузки	
(m)	2R 4000 kg	TD 2000 kg [m]	Alcance del gancho [m] / Hook reach [m] Portée du crochet (m) / Reichweite des Hakens (m) / Радиус действия крюка (m) / مدى الخطاف			
			15	17	19	
19	[m]	19	2000	2000	2000	
17		17	2000	2000	# 2	
15	15	15	4000	-	* :	
(m)	2R 3000 kg [m]		Alcance del gancho [m] / Hook reach [m] Portée du crochet (m) / Reichweite des Hakens (m) / Радиус действия крюка (m) / مدى الخطاف			
17	17 17		3000	3000		





REACTIONS ON THE SLAB



Wind in Service – 72Km/hr

Figure 1.

	RE	Jib 15 m. ACTION FORCES (K	N)	
V _A [kN]	H _A [kN]	M _A [kN·m]	V _B [kN]	H _B [kN]
- 262 + 124	± 198 kN	84,7	± 193	± 193 kN
- Compression + Traction	-4	Torque moment in M _D = 26 kN·m	ı A	



Tower Crane Dismantling

DERRICK DISMANTLING

No manual Intervention needed.

Larger assemblies dismantled at once

Safe operation

Does not damage structure

MANUAL DISMANTLING

Entirely done by manpower

Dismantled into individual parts on the top of the building

Unsafe due to handling of heavy loads manually

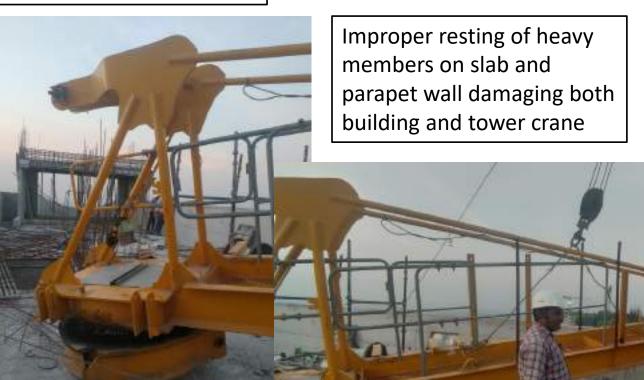
Damages structure due to ad-hoc supporting







Support given by tying rope to the wall



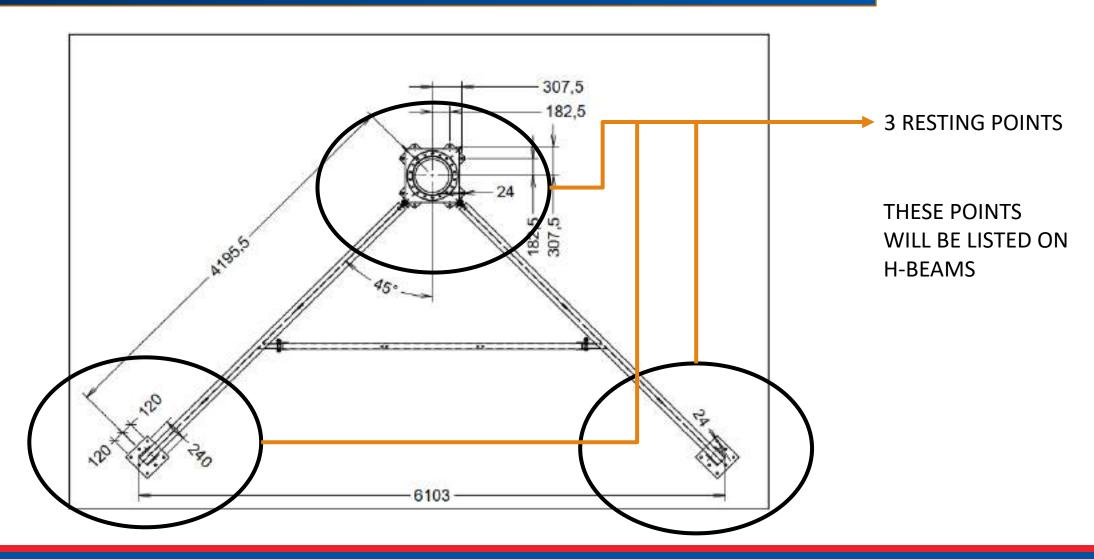


DERRICK OPERATION - VIDEO



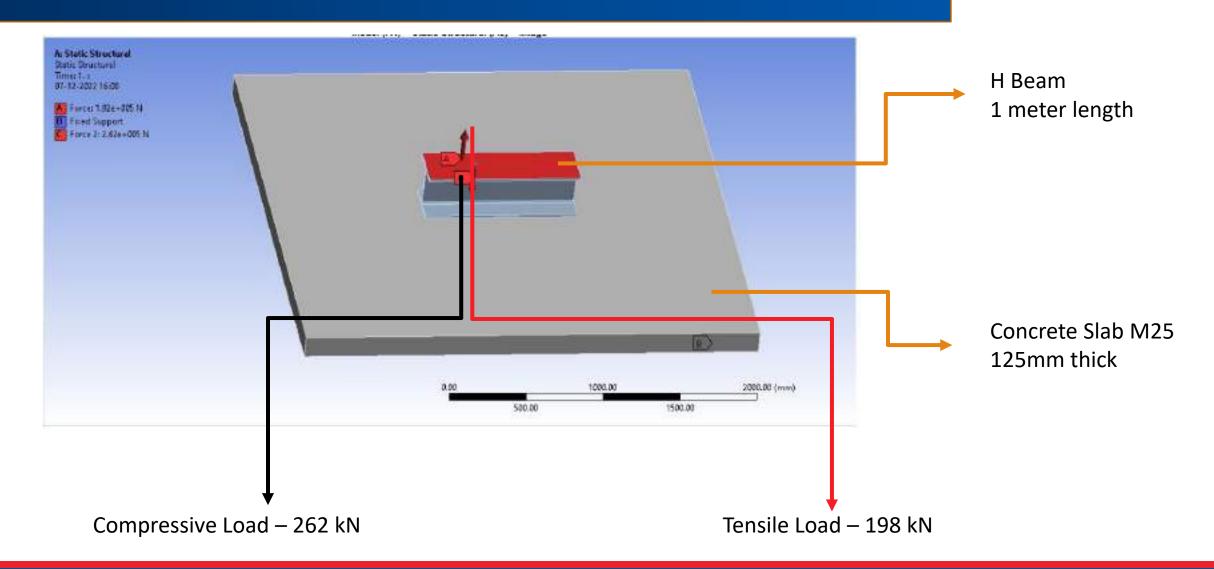


TOP VIEW - BASE FIXTURE



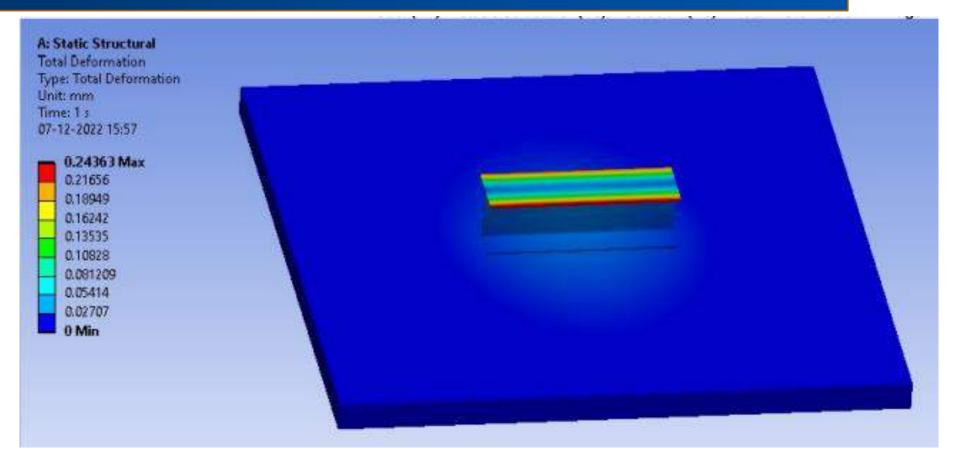








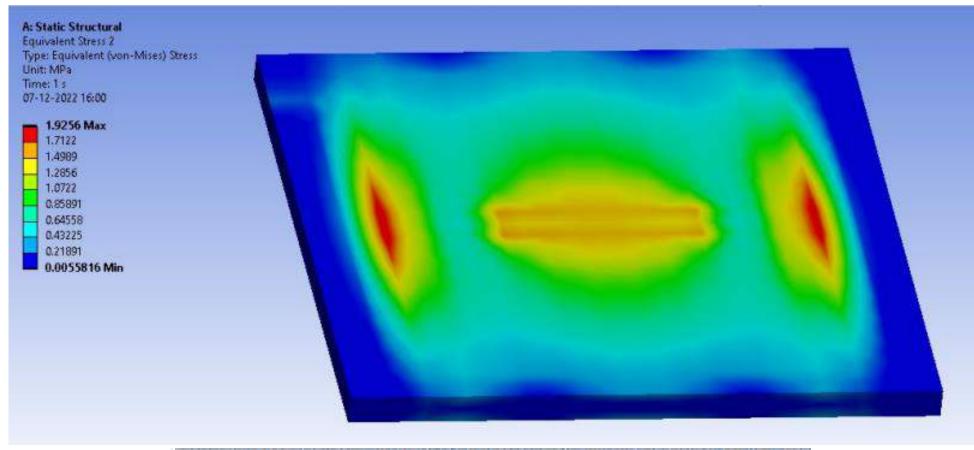
LOAD DISTRIBUTION ON H - BEAM



Time [s]	Minimum [MPa]	Maximum [MPa]	Average [MPa]
1.	5.5816e-003	43.361	4.4878



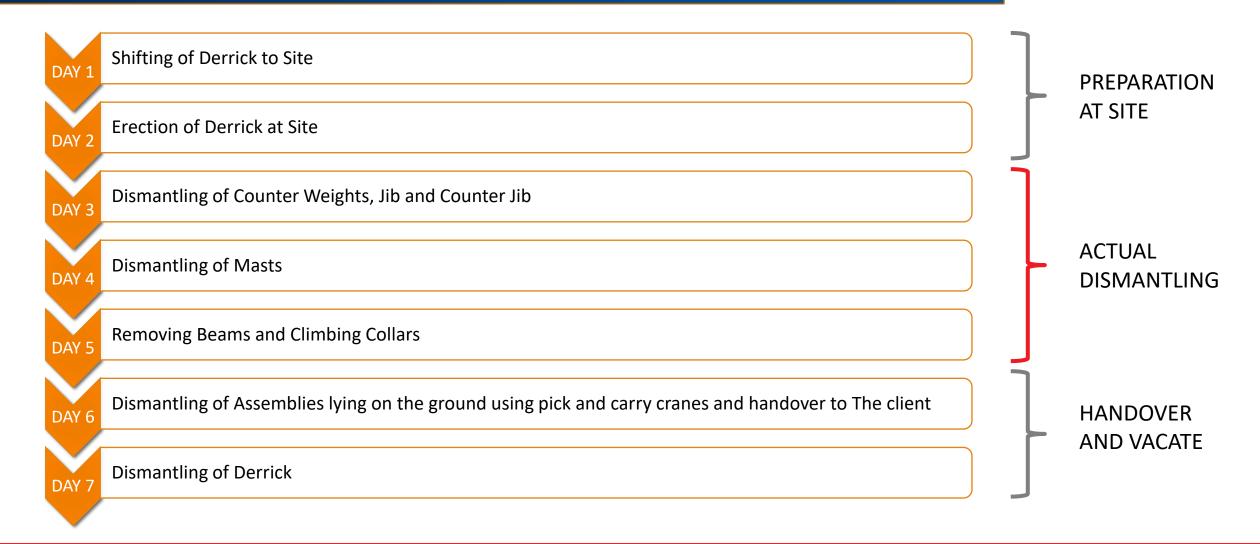
LOAD DISTRIBUTION ON THE SLAB



Time [s]	Minimum [MP	a] Maximum [MPa]	Average [MPa]
1.	5.5816e-003	1.9256	0.54556



DISMANTLING SCHEDULE





METHODOLOGY - ERECTION AND DISMANTLING

Erection Methodology

- 1. Shifting of material via PM Hoist or iZura Mini Crane. Max weight of element 511kg
- 2. Material will be manually moved to the position designated for the erection of Derrick
- 3. Derrick will be erected manually or using the tower crane at the site.

Dismantling Methodology

- 1. Derrick will be dismantled manually using a chain pulley
- 2. Material will be brought down to the ground level using iZura Mini Crane or PM Hoist at the site



SUPPORT REQUIRED FROM CUSTOMER/SITE

BEFORE DISMANTLING

- Plan of terrace with Tower Crane position and Jib length marked
- 2. Arrange for Site visit and discuss any other possible obstructions for dismantling
- 3. Make a list of tower crane parts using packing list and discussion with technical team

DURING DISMANTLING

- Power connection for Derrick and Mini Crane
- 2. PM hoist (if available) for shifting of material
- 3. Tower Crane for derrick erection if required

AFTER DISMANTLING

- 1. Arrange Pick and Carry crane for ground dismantling
- 2. Count and cross-check the loose parts before handover



THANK YOU!!



SCAN THE QR CODE TO SAVE THE CONTACT