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# NAKUJA PROJECT INTERNSHIP

— PROGRESS REPORT —

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## WEEK 2 (26TH JANUARY – 2ND FEBRUARY)

### Tasks achieved:

- [#52] Nozzle Fabrication
- [#64] Test stand Fabrication.
- [#11] Casting tools Fabrication
- [#71] Casing fabrication

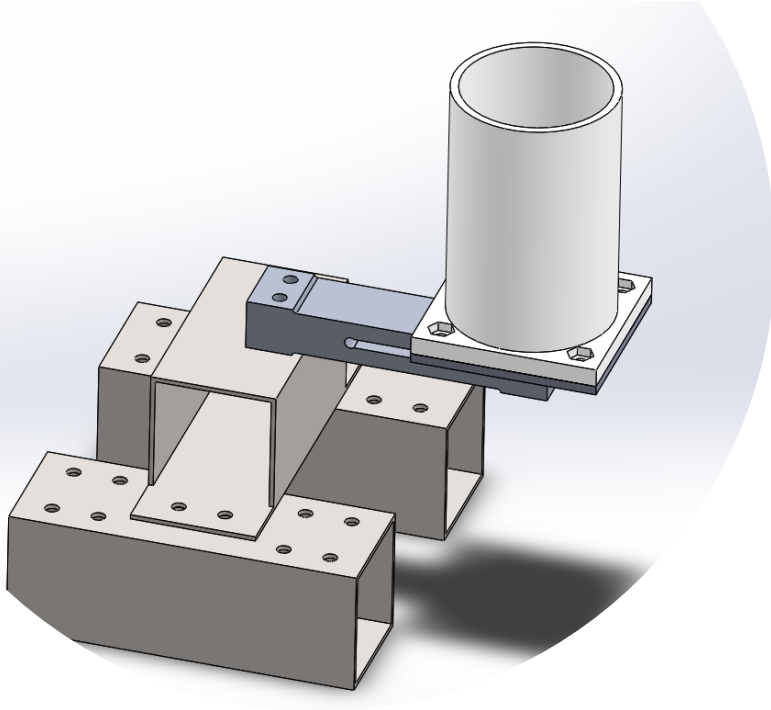
# NOZZLE FABRICATION

OPTIMUM DE LAVAL NOZZLE

Convergence half angle – 35 deg

Divergence half angle – 15 deg

# Modified Test Stand Design

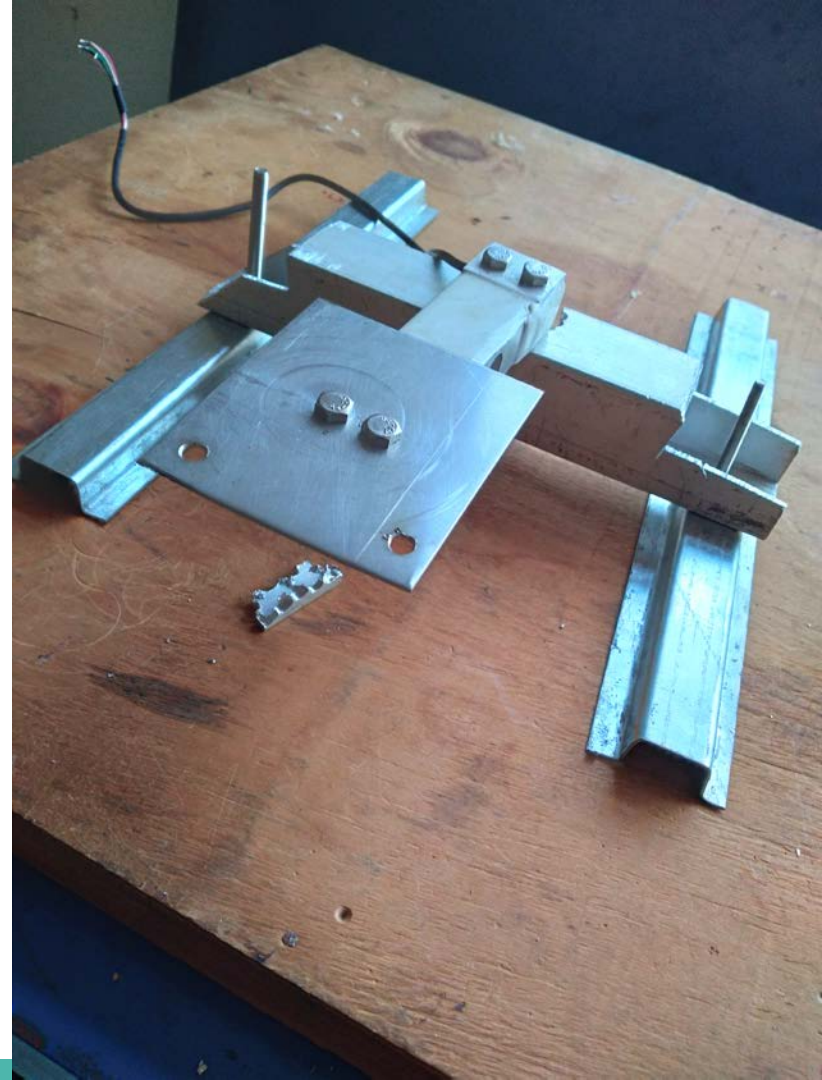


Made use of 1 50kg Load Cell

# Test Stand fabrication

**Fabrication complete**

**Motor Mount Fabrication in progress**



# Casting Tools Fabrication



Fabrication in progress –  
Lathe only available on Wed, Thu & Friday

# Tasks to be done

- Fabrication of Casing. [#71]
- Research on Snap rings [#57]
- Casting tools fabrication. [#11]
- Cast fuel. [#56]
- KNPSB trials [#69]
- Ejection Charge prodction [#13]

# Timeline

MONTH	WEEK	INTERN TASKS
January		Designs [Casing, Nozzle, Bulkhead, Test stand]
	Week 1	Fabrication begins [Casing, Nozzle, Bulkhead]
	Week 2	Fabrication Continues
	Week 3	Test stand Fabrication
February	Week 4	Fuel Casting & Fabrication
	Week 5	Iterative Static Firing Tests
	Week 6	Iterative Static Firing Tests and fuel improvement
	Week 7	Launch Pad Design and Fabrication