



SNS COLLEGE OF TECHNOLOGY

(An Autonomous Institution)

COIMBATORE-35.



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Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai.

DEPARTMENT OF AUTOMOBILE ENGINEERING

COURSE NAME : 19AUE308 - SPECIAL VEHICLES

III YEAR /VI SEMESTER

Unit 3- Agricultural Vehicles

Topic : Paddy Harvester



CONTENT



- Introduction
- Need for Paddy Harvester
- Components
- Construction & Working
- Advantages & Disadvantages
- Applications
- Manufacturing Companies



INTRODUCTION



- Paddy harvester is a versatile machine designed to efficiently harvest a variety of grain crops..
- Paddy harvester machine is a combination of a few major agricultural operations.
- These operations are
 - Cutting the crop
 - Threshing
 - Separation & Cleaning.





NEED FOR PADDY HARVESTER



- Paddy harvesting normally needs more man power.
- The increase of man power increases the operating cost.
- Manual process requires more time.
- In order to overcome this, the paddy harvester can be used.

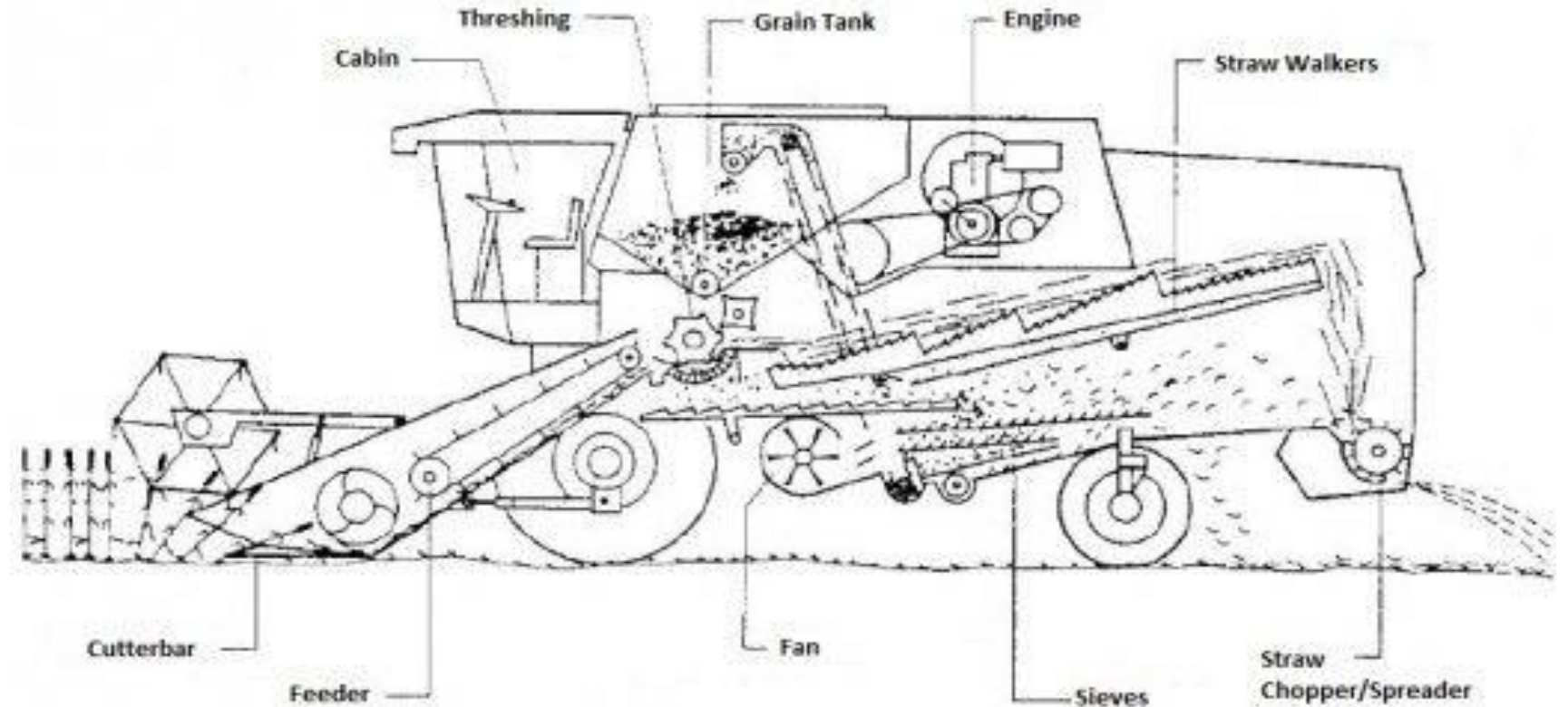




COMPONENTS



- Cutter bar
- Feeder
- Spreader
- Engine
- Grain tank
- Thresher





CONSTRUCTION

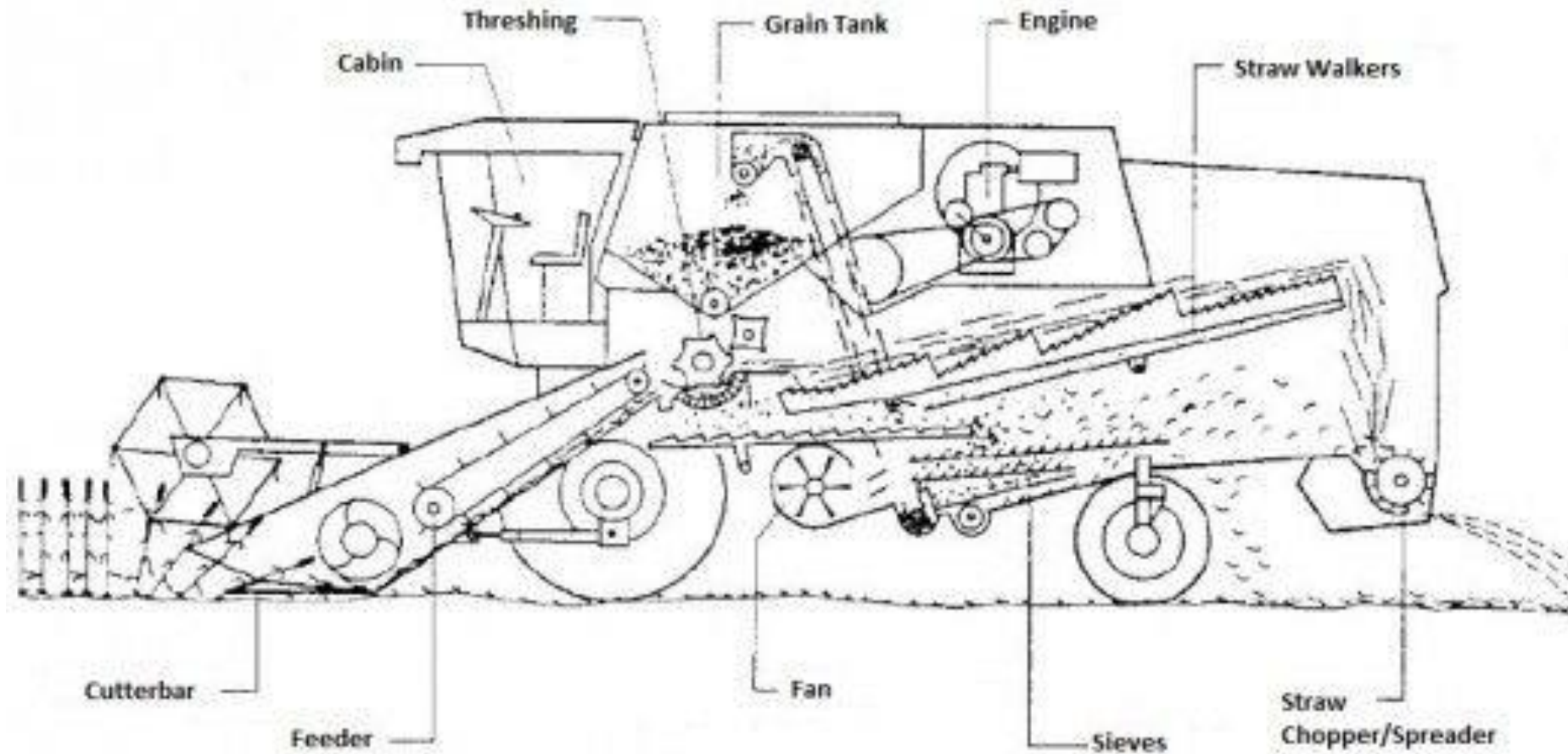


- **Cutting/Windrowing**- Cutting the crop from the windrow and conveying it to the threshing mechanism.
- **Threshing** - Detaching the seed from the plant.
- **Separation** - Separating the seed and chaff from the straw.
- **Cleaning** - Cleaning chaff, dust and other unwanted material from the seed





WORKING PRINCIPLE





ADVANTAGES



- Easy to Harvest
- Reduces Harvesting Time
- Reduces man power





DISADVANTAGES



- Requires proper maintenance.





APPLICATION



- For harvesting the paddy.
- For removing the wastes from the paddy simultaneously during harvesting





MANUFACTURING COMPANIES



- Balkar
- John Deere
- Swaraj





1. Mention the components of Paddy Harvester.
2. Why Paddy Harvester is needed?
3. What is the cost of Paddy Harvester?

ASSESSMENT





REFERENCE



- ❖ https://en.wikipedia.org/wiki/Combine_harvester
- ❖ <https://www.youtube.com/watch?v=Nn-MgcYAcKs>



THANK YOU !!!