

TECHNOLOGY MISSION ON COTTON

ELIGIBILITY CRITERIA AND COMPONENTS OF A MODERNISED GINNING AND PRESSING UNIT

I. ELIGIBILITY CRITERIA:

This subsidy scheme is available for setting up of new G & P factories as well as modernization or expansion of existing units.

The following units are eligible to apply for modernization:

1. A Composite Unit intending modernisation of machinery or civil infrastructure, or both;
2. A ginning unit desirous of installing a bale press to make it a composite unit or a pressing unit interested in setting up ginning facility;
3. A factory interested in capacity expansion by addition of more ginning machines.

TMC insists on total modernisation. This means that after modernisation the factory should possess all ***Essential Machines*** and ***Essential Infrastructure*** listed below and must satisfy all ***Essential Conditions***. A Unit proposing modernisation or being set up with TMC assistance should be willing to maintain all records and furnish all returns to the concerned authorities. It is also necessary that the Unit does not avail of assistance under TUF scheme or any other subsidy scheme of the Government of India.

II. COMPONENTS OF A MODERNISED G&P UNIT:

A. Essential Machines:

1. ***Saw gins*** or ***double roller gins*** with ***auto feeders*** (single roller gins not permitted)
2. ***Precleaner***
3. ***Lint Cleaner***
4. Mechanical/Pneumatic ***Conveyor System*** for transfer of **kapas** from heaps to Precleaner(s) and from Precleaner(s) to individual gins. ***Central platform*** system not permitted unless it is already existing.

5. Mechanical / Pneumatic **Conveyor System** for carrying **lint** from Gin House to Lint Cleaner, from Lint Cleaner to Pala Halls and from Pala Halls to Press Hall. In case of a new Bale Press, direct feeding from Pala Halls to the Press box. In case a factory does not need Pala Halls, lint can be directly taken from Lint Cleaner to Bale Press.
6. **Bale Press** with the following characteristics (to be eligible for TMC assistance of Rs.7.00 lakh)
 - (i) **Single stage** operation
 - (ii) Built-in **Autotrasher**
 - (iii) **Oil hydraulic** system
 - (iv) **Lint Slide** and **Pusher** mechanism
 - (v) Press box **dimensions** meeting BIS requirements

Existing presses without the first four features will, however, be permitted.
7. **Conveyor** for carrying **seed** from Gins to seed platform outside
8. **Humidifiers/ Moisturizers** to maintain standard moisture in *kapas* in the Gin Hall and in lint in the Pala Halls and Press Hall/ Lint Slide
9. **Fire fighting system** comprising Overhead Tank/ Sump, Pump with stand-by Diesel pump and Hydrants with Hose pipe and Nozzles
10. **Underground wiring/cabling** both inside and outside buildings
11. **Weigh bridge** (need not be installed if the facility is available nearby)

B. Essential Infrastructure:

12. **Storage space** for *kapas*
13. **Storage space for lint** (Pala House)
14. **Storage space for seeds**
15. **Storage space for bales**
16. **C.C. Road**
17. **Boundary wall/fence**
18. **Any other item/ items approved by TMC**

C. Essential Conditions:

19. Quality awareness boards to educate workers
20. Headgear/ cap for workers
21. Periodic training for gin operators/ technicians on maintenance and repair of machines

22. Arrangements for regular **disposal of rubbish** as soon as it accumulates
23. **Gummed boards** to stick human hair picked up from floor, cotton heaps etc.
24. **Variety-wise** and **grade-wise** heaping and ginning of cotton
25. Insistence on **covering of cotton** brought in carts, tractors and lorries
26. **Bale packaging** as per BIS specification
27. **Gin/ Press fitters** in each shift

D. Desirable Machines:

28. **HVI** for cotton testing
29. **Generator(s)**
30. **Laboratory model gin**
31. **Ginning Percentage Balance**
32. **Moisture Meter**
33. **Workshop machines and tools**
34. **Roller grooving machine**
35. **Pod opener / Kala machine**
36. **Any other machine subject to TMC approval**

E. Desirable Conditions:

1. Bales to be covered with cotton cloth
2. Press house to be close to gin house
3. G&P Units to be in co-operative sector

III. FACILITIES EXPECTED TO BE ALREADY AVAILABLE:

1. Adequate land
2. Adequate supply of electricity
3. Office block/building
4. Telephone facility
5. Residential quarters for staff

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**ASSISTANCE FROM TMC FOR MODERNIZATION/
SETTING UP OF NEW G&P UNITS**

		Ceiling	
Rate of Assistance		Large Unit	Small Unit
➤ 25% of the cost of machines and infrastructure*	:	Rs.20.00 lakh	Rs.15.00 lakh
➤ 25% of the cost of a modern Bale Press*	:	Rs.7.00 lakh	Rs.7.00 lakh
➤ 25% of the cost of Grading Laboratory (HVI/ MVI)*	:	Rs.4.00 lakh	Rs.4.00 lakh

** Expenditure incurred for modernization of existing G & P units/ setting up of new G & P units only after receipt of application in TMC Cell will be accounted for while calculating TMC share*

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ANNEXURE-VIII**TECHNOLOGY MISSION ON COTTON****MINIMUM STANDARDS TO BE MAINTAINED IN RESPECT OF MACHINERY
AND CIVIL STRUCTURES IN G & P PROJECTS**

SNo	Item	Minimum Requirements	
		Large Unit	Small Unit
1	Ginning Machines	24 DRs of normal size / 22 extra-long DRs/ 18 Jumbo DRs with Autofeeder/ 3 saw gins (90 saws) or equivalent, with a processing capacity of 6-8 bales per hour.	12 DRs of normal size / 11 extra-long DRs/ 9 Jumbo DRs with Autofeeder/ 1 or 2 saw gins with equivalent processing capacity of 3-4 bales per hour.
2	Precleaner	Cleaner with 4 or more beater cylinders / rolls with capacity to suit the processing speed of the ginning machines.	Cleaner with 4 or more beater cylinders / rolls with capacity to suit the processing speed of the ginning machines.
3	Lint Cleaner	Cleaner with 3 or more beater cylinders / rolls with capacity to suit the processing speed of ginning machines.	Cleaner with 3 or more beater cylinders / rolls with capacity to suit the processing speed of ginning machines.
4	Kapas Conveyor System	(i) Pneumatic conveyor with Stone Catcher for the first stage from heaps to Precleaner; (ii) Mechanical/Pneumatic conveyor from Precleaner to individual gins. Central Platform system not permitted unless it exists already.	(i) Pneumatic conveyor with Stone Catcher for the first stage from heaps to Precleaner; (ii) Mechanical/Pneumatic conveyor from Precleaner to individual gins. Central Platform system not permitted unless it exists already.
5	Lint Conveyor System	Mechanical/ Pneumatic Conveyor (i) from Gins to Lint Cleaner; (ii) from Lint Cleaner to each Pala Hall and (iii) from each Pala Hall to a. Bale Press Hall in case of existing Conventional Bale Press b. Bale Press box through Lint slide & Pusher Mechanisms in case of modern Bale Press (direct feeding of cotton from Lint Cleaner to Press box permitted)	Mechanical / Pneumatic Conveyor (i) from Gins to Lint Cleaner; (ii) from Lint Cleaner to each Pala Hall and (iii) from each Pala Hall to a. Bale Press Hall in case of existing Conventional Bale Press b. Bale Press box through Lint slide & Pusher Mechanisms in case of modern Bale Press (direct feeding of cotton from Lint Cleaner to Press box permitted)
6	Bale Press	Single stage oil hydraulic, autotramping Bale Press with Lint Slide and Pusher mechanism for direct feeding of lint into the press box. Conventional water hydraulic, two-stage presses without auto tramping facility will, however, be permitted if they already exist.	Single stage oil hydraulic, autotramping Bale Press with Lint Slide and Pusher mechanism for direct feeding of lint into the press box. Conventional water hydraulic, two-stage presses without auto tramping facility will, however, be permitted if they already exist.

SNo	Item	Minimum Requirements	
		Large Unit	Small Unit
7	Conveyor for Seed	Automatic Conveyor from gins to Seed Platform	Automatic Conveyor from gins to Seed Platform
8	Humidifier/ Moisturiser	<u>In Gin Hall</u> In case of Central Platform, 2 Benson fans or adequate number of nozzles. <u>In Pala Halls</u> 2 Benson fans in each Hall or adequate number of nozzles.	<u>In Gin Hall</u> In case of Central Platform, 2 Benson fans or adequate number of nozzles. <u>In Pala Halls</u> 2 Benson fans in each Hall or adequate number of nozzles.
9	Fire Fighting System	Overhead tank/ sump (capacity 1.25 lakh litres)/ water tank (1.50 lakh litres) with a minimum of 10 hydrants strategically located, hose pipes with nozzles and a stand-by diesel pump besides an electric pump.	Overhead tank/ sump (capacity 65,000 litres)/ water tank (75000 litres), with a minimum of 6 hydrants strategically located, hose pipes with nozzles and a stand-by diesel pump besides an electric pump.
10	Underground Wiring	All high tension and low tension wires/cables to be under-ground	All high tension and low tension wires/cables to be under-ground
11	Weigh Bridge	Capacity: 20 tons/ 5 tons depending on local need (Not required if the facility is available nearby)	Capacity: 20 tons/ 5 tons depending on local needs (Not required if the facility is available nearby)
12	Pucca Platform for Kapas	Raised platform (3" CC cover) with a minimum of 10,000 sq. ft. area preferably with 10 ft. wide cemented pavement all around/1 ft. wall around.	Raised platform (3" CC cover) with a minimum of 5,000 sq. ft. area preferably with 10 ft. wide cemented pavement around/1 ft. wall around.
13	Covered Storage Space for Lint (Pala Halls)	Hall(s) with a minimum area of 4000 sq. ft., pucca floor and preferably plastered walls.	Hall(s) with a minimum area of 2000 sq. ft., pucca floor and preferably plastered walls.
14	Seed Platform	Raised, cemented (3" CC cover) platform of minimum 2000 sq. ft. area, with 2 ft. high outer wall	Raised, cemented (3" CC cover) platform of minimum 1000 sq. ft. area, with 2 ft. high outer wall
15	Bale Storage Space	Platform with cemented floor adjoining Press Hall and admeasuring a minimum area of 600 sq. ft., preferably with roof	Platform with cemented floor adjoining Press Hall and admeasuring a minimum area of 600 sq. ft., preferably with roof
16	Road	CC Road (4.5" CC cover) with at least 10 ft. width preferably elevated	CC Road (4.5" CC cover) with at least 10 ft. width preferably elevated
17	Boundary Wall/ Fence	Wire mesh fence or barbed wire fence with less than 1 ft. gap between wires, or masonry wall, all of a minimum height of 6 ft.	Wire mesh fence or barbed wire fence with less than 1 ft. gap between wires, or masonry wall, all of a minimum height of 6 ft.